# 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



### **Bachelor of Science in Media Technology**

Regulations and Syllabus [For those who join the Course in July 2023 and after] CHOICE BASED CREDIT SYSTEM

#### **Regulations and Syllabus**

#### **GENERAL INSTRUCTIONS AND REGULATIONS**

**B.Sc. Media Technology** conducted by Alagappa University, Karaikudi, Tamil Nadu through its Collaborative Institution.

Applicable to all the candidates admitted from the academic year **2023** onwards.

#### 1. Eligibility:

A pass in the Higher Secondary Examination (HSC) conducted by the Government of Tamil Nadu, or an examination accepted as equivalent thereto by the Syndicate for admission to this programme.

#### 2. For the Degree:

The candidates shall have subsequently undergone the prescribed program of study in an institute for not less than three academic years, passed the examinations prescribed and fulfill such conditions as have been prescribed thereof.

#### 3. Admission:

Admission is based on the marks in the qualifying examination.

#### 4. Duration of the course:

The course shall extend over a period of **Three years** under Semester pattern.

#### 5. Standard of Passing and Award of Division:

- a. Students shall have a minimum of 40% of total marks of the University examinations in each subject. The overall passing minimum is 40% both in aggregate of Continuous Internal Assessment and external in each subject.
- b. The minimum marks for passing in each theory / Lab course shall be 40% of the marks prescribed for the paper / lab.
- c. A candidate who secures 40% or more marks but less than 50% of the aggregate marks prescribed for three years taken together, shall be awarded **THIRD CLASS**.
- d. A candidate who secures 50% or more marks but less than 60% of the aggregate marks prescribed for three years taken together, shall be awarded **SECOND CLASS**.
- e. A candidate who secures 60% or more of the aggregate marks prescribed for three years taken together, shall be awarded **FIRST CLASS**.
- f. Only Part-III subjects will be considered for the University academic ranking purpose.
- g. The Practical / Project shall be assessed by the two examiners, by an internal examiner and an external examiner.

#### 6. Continuous internal Assessment:

- a. Continuous Internal Assessment for each paper shall be by means of Written Tests, Assignments, Class tests and Seminars
- b. **25 marks** allotted for the Continuous Internal assessment is distributed for Written Test, Assignment, Class test and Seminars.
- c. Internal Assessment Break-Up of Marks, suggested pattern (Faculty may change the pattern, according to the subject and need)
  - a. Two Internal Tests (choose one best out of two) 50%
  - b. Model Test (One model test) Nil Should be conducted prior to the University examination. It is a mandate.
  - c. Assignments 25%
  - d. Seminar / Case Study 25%
- d. Conduct of the continuous internal assessment shall be the responsibility of the concerned faculty.
- e. The continuous internal assessment marks should be submitted to the University at the end of every semester, before the commencement of Semester Exams.

- f. The valued answer papers/assignments should be given to the students after the valuation is over and they should be asked to check up and satisfy themselves about the marks they have scored.
- g. All mark lists and other records connected with the continuous internal assessments should be in the safe custody of the institution for at least one year after the assessment.

#### 7. Attendance:

Students must have earned 75% of attendance in each course for appearing for the examination. Students who have earned 74% to 70% of attendance have to apply for condonation in the prescribed form with the prescribed fee.

Students who have earned 69% to 60% of attendance have to apply for condonation on Medical grounds in the prescribed form with the prescribed fee along with the medical certificate / relevant documents.

Students who have below 60% of attendance are not eligible to appear for the examination. They shall re-do the semester(s) after completion of the programme.

#### 8. Examination:

Candidate must complete course duration to appear for the university examination. Examination will be conducted with concurrence of Controller of Examinations as per the Alagappa University regulations. **University may send the representatives as the observer during examinations**. University Examination will be held at the end of the each semester for duration of 3 hours for each subject. Certificate will be issued as per the AU regulations. **Hall ticket will be issued to the students at the end of every semester after submitting "No Dues" certificate to the exam cell, under the aegis of Controller of Examinations of the AU.** 

#### **Question Paper pattern:**

Maximum: 75 Marks	Duration: 3Hours
Part A - Short answer questions with no choice	: 10 x 02=20
Part B –Brief answer with either or type	: 05 x 05=25
Part C- Essay – type questions of either / or type	: 03 x 10=30

#### 9. Miscellaneous

- a. Every student should possess the prescribed text book for all the subjects, through-out the semester for their theory/lab classes.
- b. Every student would be issued an Identity card by the institute/university to identify his/her admission to the course.
- c. Every student shall access the library and internet (wi-fi) facilities provided for the selfdevelopment and career-development.
- d. Every student who successfully completes the course within the stipulated time period would be awarded the degree by the University.

#### 10. Fee structure

Course fee shall be as prescribed by the University and 50% of the course fee should be disbursed to University. Special fees and other fees shall be as prescribed by the Institution and the fees structure must be intimated to the University. Course fees should be only by Demand draft / NEFT and AU has right to revise the fees accordingly.

#### **Semester Pattern**

Pattern	Course Fee payment deadline
Semester	Fee must be paid before 10 <sup>th</sup> September of the academic year

**11. Other Regulations:** Besides the above, the common regulation of the University shall also be applicable to this programme.

			SYL	LABUS UNDER CBCS PAT	FERN w.	e.f.2023	-24)			
			,	B.Sc. Media Techn	ology	1	1 1			
Sem.	Part	Course Code	Courses	Title of the Paper	T/P	Cr.	Hrs./ Week		ax. Mar	
	r	83511T/		Tamil /Other	1		WCCK	Int.	Ext.	Total
	Ι	833111/ 11H/11F	T/OL	Languages-I	Т	3	4	25	75	100
	II	83512	Е	General English-I	Т	3	4	25	75	100
		83513	Core 1	Introduction to Visual Communication	Т	4	5	25	75	100
-	ш	83514	Core 2	Graphic Design -Practical	Р	4	6	25	75	100
Ι	III	83515	Allied	Design Fundamentals	Т	3	3	25	75	100
		83516	Allied	Image Editing Techniques- Practical	Р	2	4	25	75	100
	<mark>IV</mark>	<mark>83517</mark>	SEC -I	Value Education	T	2	2	<mark>25</mark>	<mark>75</mark>	<mark>100</mark>
				Library	l .		2		ĺ	
				Total		21	30	175	525	700
	Ι	83521T	T/OL	Tamil/Other Languages-II	Т	3	4	25	75	100
	II	83522	Е	General English-II	Т	3	4	25	75	100
]		83523	Core 3	Web Designing	Т	4	5	25	75	100
	III	83524	Core 4	Web Designing-Practical	Р	4	6	25	75	100
	111	83525	Allied 3	Digital Photography	Т	3	3	25	75	100
II		83526	Allied 4	Foundation Art-Practical	Р	2	4	25	75	100
	IV	<mark>83527</mark>	SEC -II	Environmental Studies	T	<mark>2</mark>	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	<mark>100</mark>
		83528A 83528B		Internship/ Mini Project	I/ PR	2		25	75	100
				Library			2			
				Total		23	30	175	525	700
	Ι	83531T	T/OL	Tamil/Other Languages-III	Т	3	4	25	75	100
	II	83532	Е	General English-III	Т	3	4	25	75	100
		83533	Core 5	Interactive Animation Techniques	Т	3	3	25	75	100
		83534	Core 6	2D Graphics & Animation	Т	3	3	25	75	100
	III	83535	Core 7	2D Graphics & Animation - Practical	Р	3	5	25	75	100
III		83536	Allied 5	Pre Production & Shooting Techniques	Т	3	3	25	75	100
111		83537	Allied 6	Interactive Animation Techniques-Practical	Р	2	4	25	75	100
		<mark>83538</mark>	SEC -III	Entrepreneurship	T	<mark>2</mark>	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	<mark>100</mark>
		<mark>83539A</mark>		1.Adipadai Tamil	P P					
	IV	<mark>83539B</mark>	NME_I	2.Advance Tamil	T	<mark>.</mark>	<mark>2</mark>	25	75	<mark>100</mark>
		<mark>83539C</mark>	TAIVIL-1	3.IT Skills for Employment	T	<b>4</b>		<u>2</u> 9		
				<mark>4. MOOC'S</mark>	T	1				
				Total		24	30	225	675	900
	IV	<mark>83</mark> 83	539A 539B	3539A 3539B NME- L	3539ANME-11.Adipadai Tamil3539B2.Advance Tamil3.IT Skills for Employment4. MOOC'S	3539A1.Adipadai TamilP3539B2.Advance TamilT3.IT Skills for EmploymentT4. MOOC'ST	3539A 3539B 3539C1.Adipadai TamilP2.Advance TamilT2.Advance TamilT3.IT Skills for EmploymentT4. MOOC'ST	3539A 3539B 3539C1.Adipadai TamilP2.Advance TamilT2.Advance TamilT3.IT Skills for EmploymentT4. MOOC'ST	$\begin{array}{c} \begin{array}{c} 1. \mbox{Adipadai Tamil} & \mbox{P} \\ \hline 2. \mbox{Advance Tamil} & \mbox{T} \\ \hline 2. \mbox{Advance Tamil} & \mbox{T} \\ \hline 3. \mbox{IT Skills for Employment} & \mbox{T} \\ \hline 4. \mbox{MOOC'S} & \mbox{T} \end{array} \end{array} \begin{array}{c} \begin{array}{c} 2 \\ 2 \\ \end{array} \end{array}$	$\begin{array}{c} \begin{array}{c} 1.A \text{dipadai Tamil} \\ 539B \\ 3539B \\ 3539C \\ \end{array} \\ \begin{array}{c} 1.A \text{dipadai Tamil} \\ \hline 2.A \text{dvance Tamil} \\ \hline 2.A \text{dvance Tamil} \\ \hline 3.IT \text{ Skills for Employment} \\ \hline 4. \text{ MOOC'S} \\ \end{array} \\ \begin{array}{c} P \\ T \\ \hline 2 \\ T \end{array} \\ \begin{array}{c} 2 \\ 2 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$

	Ι	83541T	T/OL	Tamil /Other Languages -IV	Т	3	4	25	75	100
	II	83542	Е	General English-IV	Т	3	4	25	75	100
		83543	E (1000000000000000000000000000000000000	Non Linear Editing	Т	4	4	25	75	100
		83544	Core 9	3D Design	Т	4	4	25	75	100
	III	83545	Core 10	3D Design-Practical	Р	3	5	25	75	100
		83546	Allied 7	Advanced Art	Т	3	3	25	75	100
IV		83547	Allied 8	Advanced Art-Practical	Р	2	4	25	75	100
1 V				1.Adipadai Tamil	P					
		83548A		2.Advance Tamil	T			<mark>25</mark>	<mark>75</mark>	
	IV	IV 83548B 83548C	<mark>NME- II</mark>	3. Small Business Management	T	2	2			<mark>100</mark>
				4. MOOC'S	T	_				
		83549		Internship	Ι	2		25	75	100
				Total		26	30	200	600	800
		83551	Core 11	Motion Graphics	Т	4	4	25	75	100
		83552	Core 12	Dynamics Simulation	Т	4	4	25	75	100
		83553A 83553B 83553C	A B DSE 1	1.Concept Art 2.Matte Painting 3.Visual Storytelling for Film and Games	Т	4	4	25	75	100
V	V	83554A 83554B 83554C	DSE 2	<ol> <li>Advanced Modeling And Texturing</li> <li>VR and AR Modeling</li> <li>Digital Sculpting and Texturing Techniques</li> </ol>	Т	4	4	25	75	100
		83555A 83555B 83555C	DSE 3	<ol> <li>Rigging and Animation- Practical</li> <li>Lighting and Rendering- Practical</li> <li>Compositing Techniques- Practical</li> </ol>	Р	4	4	25	75	100
		83556	Core 13	Motion Graphics-Practical	Р	4	8	25	75	100
				Career Development/ Employability Skills			2			
				Total		24	30	150	450	600
		83561	Core 14	Visualization for Multimedia	Т	4	4	25	75	100
		83562	Core 15	Portfolio & Presentation	Т	4	4	25	75	100
		83563	Core 16	Visualization for Multimedia- Practical	Р	4	6	25	75	100
VI	Ш	83564A 83564B 83564C	DSE 4	<ol> <li>Trends in Multimedia</li> <li>Interactive Media Design and User Experience</li> <li>Digital Marketing and Social Media</li> </ol>	Т	4	4	25	75	100
		83565A/ 83565B	Core 17	Project/ Dissertation	PR/ D	6	12	25	75	100
				Total		22	30	125	375	500
			Gra	and Total		140	180			4200

		I – Semester						
Core	Course code:	Introduction to Visual	T	Credits: 4	Hours: 5			
	83513	Communication						
Objectives	1. To gain	a clear insight into different communicat	ion	types, method	s, and			
-	hurdles,	enhancing skills for effective interaction	s in	various situati	ons.			
	2. Underst	and communication models such as Lassy	well	's, Two-step fl	ow,			
	Schram	n's Circular, White's Gatekeeper, and Da	nce'	s Helical mod	els, and			
	differen	tiate technical, semantic, and pragmatic le	evel	s of communi	cation.			
	3. Introduc	e semiotics, sign analysis, visual commu	nica	tion, sensory j	perception,			
	and desi	gn processes.						
	4. Explore	culture, global media, cross-cultural chal	lleng	ges, and semio	tics in			
	commu	nication.						
	5. Explore	Mass Media, its functions, types (Traditi	ona	l, Print, Electro	onic, Digital,			
	PR), and	l media theories (Hypodermic Needle, Us	ses d	& Gratification	n).			
Unit I		to Communication: Defining and Un						
		as a Process, Symbols and Mea						
		a - Communication as an expression -		*	• •			
		- Verbal, Non verbal, Intrapersonal, In			p and Team,			
		aral Communication - Barriers to Commu						
Unit II		Visual Communication: SMCR Mc						
		ommunication models – Lasswell"s Mo						
	Schramm"s Circular Model -Whites Gatekeeper theory – Dance"s Helical model -							
	Levels of Communication: Technical, Semantic, and Pragmatic. Distinguish and							
	explain the key concepts within various communication models and categorize							
Unit III	communication levels according to their technical, semantic, and pragmatic dimensions.							
Unit III	<b>Introduction to semiotics</b> – analysis - aspects of signs and symbols denotations and connotations – paradigmetic and syntagmetic aspects of signs. The semiotic landscape:							
	connotations - paradigmatic and syntagmatic aspects of signs. The semiotic landscape:							
	00	Language and Visual communication - Narrative representation. Principles of Visual - Sensory Perceptions - Color psychology and theory (some aspects) – Definition -						
		Illusions etc., Design process –Research						
	-	• •			-			
	process of developing ideas, verbal, visual, combination & thematic - Visual thinking - Associative techniques, materials, tools (precision instruments etc.) - Design execution							
	and presentation	· ·			-8			
Unit IV		n and Public opinion: nature, meaning	ng a	and process -	Culture and			
		a: Relationship Between Culture and Con						
		ontent -impact on Developing countries,						
		challenges. Communication as a proces						
	▲ ·	ts of signs and symbols denotations and c						
		pects of signs. Message – Meaning						
	Culture/Codes	etc.,						
Unit V	Mass Media co	<b>mmunication</b> - What is Mass Media – F	unc	tions of mass				
	communication	- To-Persuade, Inform, Educate, and Ent	erta	in; Other func	tions; Impact			
	& Influence Of Mass Media Types of Mass Media: Traditional media, Print Media,							
	Electronic medi	a, Digital media, Public Relations, Public	city	and Propagan	da – Theories			
	Of mass media:	Hypodermic needle model, uses and a gi	ratif	ication model.				
	nd Text Books							
-		Visual Communication", Laurence King		-				
	um, "Mass Comm	unication In India: A Sociological Perspe	ctiv	e", SAGE Pub	olications,			
2005.								
Keval.J.Kun	nar, "Mass Comm	unication in India", Jaico Publishing Hou	ise,	1999.				

-		
Wood, Ju	lia T, "Communication mosaics: An introduction to the field of Comm	nunication",
Wards wo	orth,2001.	
Paul Mart	in Lester "Visual Communication: Images With Messages", Cengage	Learning, 2013.
Online Re	esources	
https://w	ww.britannica.com/topic/mass-communication	
https://w	ww.ualberta.ca/art-design/areas-of-study/visual-communication-d	lesign.html
https://w	ww.youtube.com/watch?v=ubR8rEgSZSU	
https://w	ww.youtube.com/watch?v=2p0NRBaQ4Ic	
Course O		Knowledge level
CO-1	Acquire fluency in the fundamental terminologies and principles related to communication.	K1
CO-2	Compare communication models; Lasswell, Two-step flow, Schramm's Circular, White's Gatekeeper, Dance's Helical; differentiate levels.	K3&K6
CO-3	Apply semiotics, analyze signs, enhance visual communication, and design proficiency	K4
CO-4	Master culture-media nexus, address cross-cultural hurdles, apply semiotics effectively	K5
CO-5	Achieve a comprehensive understanding of Mass Media roles, types, and theories, discerning their societal impact and implications.	K2&K6

**Course Outcome VS Programme Outcomes** 

CO	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	L(1)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	L(1)	M(2)
CO2	L(1)	M(2)	M(2)	M(2)	L(1)	S(3)	M(2)	L(1)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)
CO5	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	1.8	2.6	2.4	2.2	1.6	2.2	2.4	1.8	2	2.2

### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	L(1)	M(2)	M(2)	S(3)
CO2	M(2)	L(1)	L(1)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.2	2	2	2.2	2.6

		I-Semester			
Course Code: 83514	Title of the Course	Graphic Design - Practical	Р	Credits: 4	Hours: 6
Objective	<ol> <li>To build</li> <li>To unde Objective and expective 4. To think challeng push the</li> <li>To deve design p</li> </ol>	color theory to create mood and convey messa l a strong graphic design portfolio. rstand the importance of choosing and arrang res should include creating visually appealing erimenting with various typographic styles. creatively and innovatively in their design w ge them to explore new ideas, experiment with boundaries of traditional design concepts. lop a strong foundation in graphic design. The rinciples such as balance, contrast, alignment proficiency in using design software and tools	ing fon layouts ork. Se differe is inclu , and pr	ts effectively s, ensuring re t objectives ent design sty des understa	eadability, that yles, and nding
	Students are r	equired to create storyboard, and design fo	or the f	ollowing:	
Create a br Design a b Create a le exhibition Create a ne Design a V Design a P Create a R Design a B	and and market rochure or a pro aflet for a furnit ewsletter that pr vector Portrait II ackaging Desig estaurant Menu	ure brand that would be distributed to prospect omotes various products for Diwali. lustration n for a Product Design Dnline Promotion		istomers in a	n
Outcome	2. Stud will and requ 3. stud skill 4. stud such high 5. stud They	ents will gain expertise in adapting their design forms, including print, web, and social media. ents will develop the ability to creatively solv learn how to analyze design problems, general select the most appropriate solution based on irements. ents will have a portfolio of diverse design pro- s and creativity ents will be proficient in using industry-standar as Adobe Photoshop, Illustrator, and InDesign- quality visual designs. ents will be able to demonstrate effective visual will understand how to use typography, color provey messages clearly and persuasively in the	re design te mult design ojects the ard grap gn, enab al commor theory	n challenges iple design of principles an hat showcase ohic design s bling them to munication s y, layout, an	s. They concepts, nd project e their software o create skills.
dobe, " Ado 014 Alina Wheeld Seam ", Wile Saulkner And	er, " Designing ] ey; 5 edition (Oc	C Classroom in a Book ", Pearson Education Brand Identity: An Essential Guide for the Wi stober 16, 2017) onrad, " Adobe Photoshop CC Classroom in a	hole Br	anding	

James Craig , Irene Korol Scala, "Designing with Type, 5th Edition: The Essential Guide to Typography ", Watson-Guptill; 5th ed. edition (May 1, 2006) Kordes Anton Kelly, Cruise John, "Adobe InDesign CC Classroom in a Book", Pearson Education; First edition 2017

#### **Online Resources**

https://www.youtube.com/watch?v=rfIq1Szc2j4 https://www.youtube.com/watch?v=yad3GOnVw5c https://www.youtube.com/watch?v=9EGI-FSr0Ig https://www.youtube.com/watch?v=vAG-CElu7ck https://www.youtube.com/watch?v=lNOqlS5X1GU https://www.youtube.com/watch?v=NZmny1RT2R8

#### **Course Outcome VS Programme Outcomes**

CO	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	L(1)	M(2)	M(2)	S(3)	L(1)	M(2)	L(1)
CO4	S(3)	M(2)	L(1)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	L(1)	M(2)	S(3)	S(3)
W.AV	2.6	2.4	2.4	1.8	2.4	2	2.2	2	2.4	2.2

S-Strong (3), M-Medium (2), L-Low (1)

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	L(1)	M(2)	M(2)
CO2	S(3)	M(2)	S(3)	S(3)	S(3)
CO3	M(2)	S(3)	M(2)	S(3)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	M(2)	L(1)	S(3)
W.AV	2.6	2.6	2.4	2.2	2.4

		I – Semester						
Allied	Course code: 83515	Design Fundamentals	T Credits: 3	Hours: 3				
Objectives	1. To deve	lop in-depth knowledge in underst	anding the importa	nce and usag				
-	of eleme	of elements & principles of design						
	2. To exp	lore the principles and conce	pts governing th	e perception				
	interacti	on, and manipulation of colours in	various visual cor	ntexts				
	3. To unde	erstand Typography and graphic	principles for ef	fective Visua				
	Commu	nication and explain the core con	ncepts of typograp	phy, includin				
	typeface	es, fonts, glyphs, type familie	s, and their ro	les in visua				
	commur	nication						
	4. To unde	erstand Grid Systems and its benef	fits of using in des	sign, includin				
	how the	y establish structure, alignment, an	d consistency in la	iyouts				
	5. To unde	rstand perspective and its types for	r creative visualiza	tion				
Unit I	Design fundan	nental – Basics of Design – Cha	aracteristics of a	good design				
	visualisation - v	visualising a word as drawing – El	lements of design	- Principles c				
		ivity – fundamental of creativity						
		ativity – exercises - analysing pri-	nciples and eleme	ents in famou				
	designs.							
Unit II		- basics of colour theory - attrib						
		colour harmony - colour schemes - colour blending - additive model -						
	subtractive model - colour contrast - colour psychology - colour strategy -							
	colours in printing - usage of adobe kuler - preparing swatches - exercises							
Unit III	<b>Typography-</b> typeface anatomy – measurements - typeface classifications – type							
	families – spacing and alignment – selecting appropriate fonts – newspaper							
	• -	typeface analysis <b>Graphics</b> – importance of graphics – major classifications –						
		ntion – exercises						
Unit IV	l l	outs – role of grids – structure	<b>e .</b>					
	layouts - layout guidelines - important parts of a page layout - types of layouts -							
	analysing various print design layouts - trends in digital design layouts -							
	minimal/flat - geometric - card layout - Modular/grid - typography - design							
		ure designing - exercises						
Unit V		ews – Concept of perspective –						
	perspective terminology – linear perspective construction methods - single point							
	perspective - two point perspective - three point perspective - aerial perspective -							
	exercises							
	nd Text Books		4. D. 1. 1. 1	4 - 1:4:				
2007.	-Kathus, "Foundati	ons of Art and Design", Wadswort	in Publishing; Firs	t edition,				
	radala "Dagion Th	intring Dropping & Mathada Ath Edi	tion" Design Con					
	(December 1, 2017	inking Process & Methods 4th Edi	tion, Design Con	infunity				
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		ives in Typography", Laurence Kin "The complete colour harmony", I		Jelober 2013				
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		h?v=YeI6Wqn4I78 h?v=9EPTM91TBDU						
http://www.	youtube.com/watc	$h_{2y} = \text{Com} 1 \text{ oN} t_{7} \text{ oN} t_{2y}$						

Course Outo	comes	Knowledge level
CO-1	Able to understand and recall the role of principles and elements of design in solving design problems	K1
CO-2	Able to utilise colour theory to create visually compelling and communicatively effective designs across diverse mediums	K3&K6
CO-3	Able to seamlessly interpret typography and graphical elements to create visually impactful designs that effectively convey messages and evoke desired emotions.	K4
CO-4	Able to seamlessly interpret Grid System and Layout for designing	K5
CO-5	Able to compose and construct various perspective visualisations as artworks and designs	K2&K6

#### **Course Outcome VS Programme Outcomes**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	L(1)	L(1)	S(3)	L(1)	S(3)	M(2)	M(2)
CO2	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	L(1)	L(1)	M(2)	S(3)	S(3)	L(1)	M(2)	M(2)	M(2)	S(3)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	S(3)
W.AV	2.2	2.4	2.4	2	1.8	2	1.8	2.4	2	2.4

**S–Strong (3), M-Medium (2), L-Low (1)** 

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	L(1)	S(3)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	S(3)	S(3)	M(2)	S(3)	M(2)
CO4	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	S(3)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2	2.4	2.4

	1	I-Semester	1	- 1	
Allied	Course Code: 83516	Image Editing Techniques - Practical	P	Credits: 2	Hours: 4
Objective	<ul> <li>reflectio</li> <li>2. To unde brightne image</li> <li>3. To unde layers</li> <li>4. To unde manipul effects</li> <li>5. To deve should b</li> </ul>	rstand compositing multiple images, creating r ns, and applying special effects rstand fundamental image enhancement techni ss, contrast, saturation, and sharpness, to impro- rstand concepts like white balance, color gradi rstand using various selection tools and maskin ate specific areas within an image, allowing fo lop the skills to retouch and restore old or dam be able to remove blemishes, wrinkles, and imp ral look of the subject	ques, ove th ng, ar ng tec r prec aged j	such as adju e overall quand the use of hniques to is ise editing an photographs.	sting ality of an adjustmen olate and nd creative They
2. D 3. D 1i 4. C 5. R 6. C 7. C 8. C 9. D	Design a poster for Design a poster for ke saving water, Convert a Black & Cestore and retou Create a social aw Create an E Greet Create a Social M Design a Micro w	itle using Image Editing Application or an upcoming 3D movie or a workshop organised by the institution or a electricity etc. & White image to a colour image ch the given damaged photographs vareness poster Design ting design for any traditional festival of India ledia Advertisement for a corporate company yorld of a any famous landmark of INDIA work for a theme	socia	l awareness i	message
Outcome	<ul> <li>incluwill will will</li> <li>origi</li> <li>2. Able</li> <li>3. Able</li> <li>as cr</li> <li>4. Stude</li> <li>them</li> <li>able</li> <li>refin</li> <li>5. Stude</li> <li>combine</li> </ul>	ents will understand and apply non-destructive ding the use of adjustment layers, layer masks be able to make changes to images without per nal content, facilitating efficient and flexible e- to show ability to adjust and correct colors in to show proficiency in fundamental image ma opping, resizing, and rotating, using industry-s ents will master advanced selection and maskin to isolate and edit specific areas within an ima- to create precise selections using tools like the e edge functions. ents will develop the skills to create complex in pining multiple images seamlessly. They will here	, and s mane diting digita nipula tanda ng tec age ac pen t mage	smart objects ntly altering workflows. l images. ation techniq rd software hniques, ena curately. Th ool, magic w composition o blend elem	s. They the jues, such bling ey will be vand, and s by

Press.

Dewis, G. (2015). *The Photoshop Workbook: Professional Retouching and Compositing Tips, Tricks, and Techniques*. Pearson Education.

Swerzenski, J. D. (2021). Fact, fiction or Photoshop: Building awareness of visual manipulation through image editing software. *Journal of Visual Literacy*, 40(2), 104-124.

Whitt, P., Harder, J., & Shaffer, J. (2020). *Photo Editing Basics with Adobe Photoshop Elements: Improving, Enhancing, and Retouching Images*. Apress.

#### **Online Resources**

https://www.youtube.com/@BennyProductions https://www.youtube.com/watch?v=BgiYdgzWa0Q&t=168s https://www.youtube.com/watch?v=xj4vTVpV6vc

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	L(1)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)	M(2)
CO4	S(3)	S(3)	M(2)	S(3)	L(1)	S(3)	L(1)	L(1)	M(2)	S(3)
CO5	M(2)	L(1)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	L(1)
W.AV	2.6	2.4	2.6	2.4	2	2.4	2	2	2.2	2

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### **Mapping Course Outcome VS Programme Specific Outcomes**

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	M(2)	M(2)	S(3)
CO2	M(2)	M(2)	S(3)	L(1)	L(1)
CO3	S(3)	S(3)	M(2)	S(3)	M(2)
CO4	S(3)	M(2)	S(3)	M(2)	M(2)
CO5	L(1)	S(3)	M(2)	S(3)	M(2)
W.AV	2.4	2.6	2.4	2.2	2

		II-Semester-Core					
Core	Course Code: 83523	Web Designing	T	Credits: 4	Hours: 5		
Objectives	<ul> <li>adeptness</li> <li>2. To Develo graphic in sophistica</li> <li>3. To acquire pages effe</li> <li>4. To underst targeting a</li> <li>5. To constru- skills to en</li> </ul>	tand and apply the universal selector ( and styling all HTML elements consist act effective navigation bars using HT and the selection of the	mpel sks fo eleva reate *), ga ently ML a tion.	ling digital con or web design and structure s aining expertise across web p nd CSS, acqui	ntent. to enhance l static web se in rojects. iring the		
Unit 1	Creating a new Creating the Digi	<b>Insition</b> – Introduction to work area of document – Designing a mockup la tal wireframe – Creating the layout a the other elements – about layer styles	nding and a	g page – Grie lligning shape	d system – s – placing		
Unit II	Clipping Masks Hue/Saturation cc tool – using the L	Clipping Masks – about the selection tools – creating the banner – using the Hue/Saturation command – Adding text – about smart filters – using the magic wand tool – using the Lasso tools – applying a Gradient fill – Layer techniques – Layer blending modes – Warping Type layers – Slicing – Optimising images using the Slice					
Unit III	<b>Introduction to I</b> creating the web p the box model – I	<b>TTML</b> – Introduction to interface of w page – defining CSS – Styling table – 0 DIV – Identification with ID attribute –	Class	selector – uno	derstanding		
Unit IV	creating the side section - Float <b>Universal selector</b> – Floating multiple elements – clearing floated elements – Creating the site – defining the site – site management – construct the page outline – formatting main container – adding page section – position the icon elements on the page – setting position values – adding span tag						
Unit V	<b>Building a navigation bar</b> – creating style for navigation menu – design a navigation submenu HTML form elements – vendor prefix – inline style – CSS sprites – CSS reset- using web fonts –adding Google fonts to the website – adding an email subscribe – applying rounded corner buttons – adding drop shadow						
<ul><li>(9 Decent</li><li>David S</li><li>O'Reilly</li></ul>	applying rounder <b>d Text Books:</b> Abazi, "2017 Html mber 2016). Sawyer Mcfarland (	ed corner buttons – adding drop shadov and CSS: Build Your First Web Page' Author), Chris Grover, "Dreamweav	w ', Cre	eatespace Inde	pendent Pul		

- 2 edition (12 December 2014)
- James J. Maivald, "Adobe Dreamweaver CC Classroom in a Book", Adobe; Pap/Psc edition 2014.
- Noble Desktop, "Photoshop CC 2017 for Web & UI Step by Step Training", Noble Desktop 2017.
- Rob Larsen, "Beginning HTML and CSS", Wiley (2013).

**Online Resources** 

https://www.youtube.com/watch?v=KwoSm0E8MOE https://www.youtube.com/watch?v=GJN7TemsZtY https://www.youtube.com/watch?v=OJLfjgVlwDo https://www.youtube.com/watch?v=Z07d9Vu7GKM

CO1	Able to apply print design knowledge to produce engaging and responsive web designs.	K1
CO2	Able to Demonstrate proficiency in using clipping masks to seamlessly blend images and text, enabling sophisticated graphic compositions with precise control over visibility and transparency.	K3&K6
CO3	Able to develop the ability to create and structure web content using HTML, encompassing foundational tags, elements, and document organization.	K4
CO4	Able to efficiently apply consistent styling across all elements within web designs.	K5
CO5	Able to Develop the ability to create responsive and visually appealing navigation bars, improving website usability and user engagement.	K2&K6

#### **Course Outcome VS Programme Outcomes**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	S(3)	L(1)	S(3)	M(2)	L(1)	M(2)	S(3)
CO2	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	L(1)	M(2)	L(1)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.8	2.8	2.4	1.8	2.2	2.4	1.8	2.4	2.4

S-Strong (3), M-Medium (2), L-Low (1)

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	S(3)	S(3)	S(3)	S(3)	S(3)
CO3	S(3)	M(2)	S(3)	M(2)	S(3)
CO4	M(2)	S(3)	M(2)	M(2)	M(2)
CO5	S(3)	M(2)	M(2)	S(3)	M(2)
W.AV	2.8	2.6	2.6	2.4	2.4

		II-Semester - Core			
Core	Course Code: 83524	Web Designing - Practical	Р	Credits: 4	Hours: 6
Objective	content a 2. To creat 3. To creat 4. To emple elements	eb. Transitioning from print to web design and design principles to suit online platfo e precise and visually appealing graphic e and structure static web pages effective by the universal selector (*) in CSS to tak efficiently. e visually appealing and functional navig	orms. effects in ely. rget and	n digital des style all HT	ign." ML

#### Students are required to write code snippets, which covers the following objectives

- 1. Design a website for a brand site. Create the webpage design using a design application, use HTML and CSS for creating the web page. Provide appropriate links and navigations. Add animations wherever required.
- 2. Design a responsive page layout design for a brand.
- 3. Design a web banner advertisement for a brand.
- 4. Design a web newsletter.
- 5. Designing a own portfolio web layout page design
- 6. Design an Emailer for a brand.
- 7. Design an E-commerce Websites landing page.
- 8. Create a cover page for Health and Wellness Websites.
- 9. Create User flow for Health and Wellness Websites
- 10. Create ICONOGRAPHY for a specific interface design

Outcome	1. Students will demonstrate the ability to effectively translate print materials into web-compatible formats, optimizing content for digital platforms and enhancing user engagement.
	2. Students will demonstrate mastery in applying clipping masks to create
	intricate and precise graphic effects in digital design." 3. learner will be adept at utilizing the universal selector (*) in CSS to
	efficiently style HTML elements, ensuring comprehensive control over web design.
	4. Students will create responsive and visually appealing navigation bars, improving website usability and user engagement.
	5. Apply consistent styling across all elements within web designs.

#### **Reference and Text Books:**

- Blerton Abazi, "2017 Html and CSS: Build Your First Web Page", Createspace Independent Pub (9 December 2016).
- David Sawyer Mcfarland (Author), Chris Grover, "Dreamweaver CC: The Missing Manual", O'Reilly;
  - 2 edition (12 December 2014)
- James J. Maivald, "Adobe Dreamweaver CC Classroom in a Book", Adobe; Pap/Psc edition 2014.
- Noble Desktop, "Photoshop CC 2017 for Web & UI Step by Step Training", Noble Desktop 2017.
- Rob Larsen, "Beginning HTML and CSS", Wiley (2013).

#### **Online Resources**

https://www.youtube.com/@SuperSimpleDev https://www.youtube.com/watch?v=YszONjKpgg4 https://www.youtube.com/watch?v=raMaAm061eM https://www.youtube.com/watch?v=eFzAtvFOr4M

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	S(3)	L(1)	S(3)	M(2)	L(1)	M(2)	S(3)
CO2	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	L(1)	M(2)	L(1)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.8	2.8	2.4	1.8	2.2	2.4	1.8	2.4	2.4

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	S(3)	S(3)	S(3)	S(3)	S(3)
CO3	S(3)	M(2)	S(3)	M(2)	S(3)
CO4	M(2)	S(3)	M(2)	M(2)	M(2)
CO5	S(3)	M(2)	M(2)	S(3)	M(2)
W.AV	2.8	2.6	2.6	2.4	2.4

		II-Semester - Allied			
Allied	Course Code: 83525	Digital Photography	Т	Credits: 3	Hours: 3
Objective1	<ul> <li>milestone</li> <li>2. To Develo the creation mediums.</li> <li>3. To underst enabling p</li> <li>4. To demony principles</li> </ul>	nsight into the evolution of photograph s, technological advancements, and cu op a proficient grasp of the Rule of Th on of visually balanced and engaging i tand exposure triangle's interplay of a precise control over light and creative strate a comprehensive understanding of operation, and their practical applie	ltural in irds in c mages a perture, expressi of polar cations i	npact. omposition, cross various shutter speed on in photog rising filters, in photograph	enabling s artistic d, and ISO graphy. their hy
	image edi	tand and gain skills necessary to profiting software interfaces.	-	-	
Unit 1	camera settings -	<b>Ography</b> – History of cameras – Cam - Different Types of Image Format – erstanding Megapixel (MB) and image	Unders		
Unit II	Positive and neg	<b>he Rule of Thirds</b> - Backgrounds - ative space – Framing - Symmetry - e lights Temperature - Assignment 1:	-Angle	of view - Pe	
Unit III	What is exposure Speed types —Ur light – Cool light	re triangle - Understanding Aperture nderstanding the ISO types – Speed L t – Types of camera lenses – wide an ish eye lenses - tripod stand - lens	e types ight – S ngle, tel	–Understand oftbox light ephoto - zoc	– Umbrell om lenses
Unit IV	Environmental Po Light - fill light –	rs - Soft Focus Filters - The Sta ortraits - Short Lighting - Broad Ligh back light - Snoot – Reflector - Work graphy - Assignment 4: landscape pho	ting – B ting with	Bounce – Dif n cameras – J	fuser - Ke Assignme
Unit V	balance – Hue/Sa Exposure – curve	ftware interface navigation – Layer aturation – Photo Filter – Brightness es – levels – Filters – Bridge – Temp – Vibrancies – Clarity – Blacks - In	Contras erature a	st – Black a adjustment –	nd White - Tint – Fi

#### **Reference and Text Books:**

- Alan.A.Armer, "Writing the Screenplay: TV and Film, 2/E", Waveland Pr Inc, 2002.
- Blain Brown, "Cinematography: Theory and Practice: Image Making for Cinematographers and Directors: Volume 3", Focal Press; Second edition (27 July 2011).
- David Stump, "Digital Cinematography: Fundamentals, Tools, Techniques", and Workflows, Routledge; 1 edition (21 March 2014).
- Jonathan Canlas, Kristen Kalp, "Film is Not Dead: A Digital Photographer's Guide to Shooting Film (Voices That Matter)", New Riders, 2012.
- Steve Cartwright, "Pre-Production Planning for Video, Film, and Multimedia", Focal Press, 1996.

#### **Online Resources**

https://youtu.be/V7z7BAZdt2M?feature=shared https://youtu.be/WXdAX0No2hM?feature=shared https://youtu.be/wwVEbEpGTkY?feature=shared

CO1	Able to Acquire a deep understanding of photography's historical journey, tracing its development, pioneers, and transformative role in visual storytelling.	
CO2	Able to Demonstrate the ability to apply the Rule of Thirds, producing visually harmonious compositions through strategic placement of subjects in images.	K3&K6
CO3	Able to classify and distinguish exposure triangle to create a expression in photography	K4
CO4	Able to determine skills necessary to effectively utilise polarising filters in various contexts.	K5
CO5	Able to navigate the user interface and make image editing in the commonly used image editing software applications.	K2&K6

			1	1	1	1	1	1	1	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	L(1)
CO2	L(1)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	L(1)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	L(1)	M(2)	M(2)	M(2)	L(1)	S(3)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	1.8	2.4	2.4	2.2	2.2	2	2.6	2.2	2.4	2.2

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	S(3)	M(2)	M(2)	M(2)
CO2	L(1)	M(2)	M(2)	M(2)	S(3)
CO3	L(1)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	L(1)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)
W.AV	1.8	2.4	2.4	2.2	2.2

		II-Semester - Allied			
	Course				
Allied	Code:	Foundation Art - Practical	P	Credits: 2	Hours: 4
	83526			( 'I ' _ 2D	
Objectives	-	e ability to transform flat 2D images into visu	•	0	
	representation	s using various line-based techniques and sh	ading	metnoas.	
		Students are required to create the follow	ing:		
1. Create	a cartoon chara	cter out of an object and illustrate the character	in dif	ferent views	
		sion sheet for the cartoon character out of an obj			
		ith a minimum of 15 shots for the animation sto		our own.	
		de view of a 2 leg cartoon character	5 5		
5. Create	the front and si	de view of a 4 leg cartoon character			
		acter that undergoes a physical or emotional tran			
		on character into a specific environment or setti		ustrate the c	haracter's
		vironment and how it adapts to its surroundings		1 1	.a.•
-		set of accessories or props for your cartoon cha	aracter	, such as clo	othing,
	or gadgets.	cartoon character (e.g., Mickey Mouse) and cre	ata a t	imalina illus	trating
		evolved in terms of design and personality over			stratting
		character in a short sequence, such as a walk or	•		a video oi
	•	demonstrating your understanding of character			
Outsource	11			ing hotchir	
Outcome	1. 0	Create 3D-like effects in drawings using lines	, shad	ing, natum	ig, and
Jutcome		Create 3D-like effects in drawings using lines, tippling.	, shad	ing, natenn	ig, and
Jutcome	s 2. I	stippling. Understand and apply 2-point and 3-point pe		-	
Jutcome	2. I	stippling. Understand and apply 2-point and 3-point pe environmental drawings.	rspec	tive for real	istic
Juccome	2. 1 3. 1	stippling. Understand and apply 2-point and 3-point pe environmental drawings. Draw their own face accurately while experin	rspec	tive for real	istic
Outcome	2. 1 3. 1	stippling. Understand and apply 2-point and 3-point pe environmental drawings. Draw their own face accurately while experin Irawing styles.	rspect	tive for real	istic erent
Juccome	2. 1 3. 1 4. 1	stippling. Understand and apply 2-point and 3-point pe environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t	rspec nentin ertiar	tive for real og with diffe y colors effe	istic erent ectively.
Juccome	2. 1 3. 1 4. 1 5. 0	stippling. Understand and apply 2-point and 3-point pe environmental drawings. Draw their own face accurately while experin Irawing styles. Wix primary colors to create secondary and t Create a color wheel that demonstrates an un	rspec nentin ertiar	tive for real og with diffe y colors effe	istic erent ectively.
Juccome	2. 1 3. 1 4. 1 5. 0	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin frawing styles. Wix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships.	rspec nentin ertiar derst:	tive for real og with diffe y colors effe anding of co	istic erent ectively. blor
Jutcome	2. 1 3. 1 4. 1 5. 0	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene	rspec nentin ertiar derst:	tive for real og with diffe y colors effe anding of co	istic erent ectively. blor
Jutcome	2. 1 3. 1 4. 1 5. 0	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene	rspec nentin ertiar derst:	tive for real og with diffe y colors effe anding of co	istic erent ectively. blor
	2. 1 3. 1 4. 1 5. 0 6. 1	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal.	rspec nentin ertiar derst:	tive for real og with diffe y colors effe anding of co	istic erent ectively. blor
Reference a	2. 1 3. 1 4. 1 5. 0 1 6. 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal.	rspect nentin ertiar dersta s with	tive for real og with diffe y colors effe anding of co depth and	istic erent ectively. olor visual
Reference a ● Gottfr	2. 1 3. 1 4. 1 5. 6 1 6. 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	tippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin lrawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal.	rspect nentin ertiar derst: s with Public	tive for real ag with diffe y colors effe anding of co depth and eations, 2004	istic erent ectively. blor visual
<b>Reference a</b> • Gottfr • Micha	A Text Books: ied Bammes, "T el McKinley and	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and t Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal.	rspect nentin ertiar derst: s with Public	tive for real ag with diffe y colors effe anding of co depth and eations, 2004	istic erent ectively. blor visual
Reference a Gottfr Micha 2nd ed	nd Text Books: ied Bammes, "T el McKinley and lition, 2007.	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and the Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal. The Artist's Guide to Human Anatomy", Dover d Valerie O'Loughlin, "Human Anatomy", McC	rspect nentin ertiar dersta s with Public Graw H	tive for real ag with diffe y colors effe anding of co depth and eations, 2004 Hill Higher E	istic erent ectively. olor visual
Reference a Gottfr Micha 2nd ed Blair,	<b>1. 1. 1. 1. 1. 1. 1. 1.</b>	stippling. Understand and apply 2-point and 3-point performental drawings. Draw their own face accurately while experime trawing styles. Mix primary colors to create secondary and the Create a color wheel that demonstrates an unrelationships. Use 1-point perspective to construct 2D scene appeal. The Artist's Guide to Human Anatomy", Dover a divide the Valerie O'Loughlin, "Human Anatomy", McCoron Animation: The Collector's Series (p. 224).	rspect nentin ertiar derst: s with Public Graw H	tive for real ag with diffe y colors effe anding of co depth and eations, 2004 Hill Higher E	istic erent ectively. olor visual
Reference a • Gottfr • Micha 2nd ed • Blair, • Loomi	<b>1. 1. 1. 1. 1. 1. 1. 1.</b>	stippling. Understand and apply 2-point and 3-point per environmental drawings. Draw their own face accurately while experin drawing styles. Mix primary colors to create secondary and the Create a color wheel that demonstrates an un relationships. Use 1-point perspective to construct 2D scene appeal. The Artist's Guide to Human Anatomy", Dover d Valerie O'Loughlin, "Human Anatomy", McC	rspect nentin ertiar derst: s with Public Graw H	tive for real ag with diffe y colors effe anding of co depth and eations, 2004 Hill Higher E	istic erent ectively. olor visual
Reference a Gottfr Micha 2nd ed Blair, Loomi Online Reso	nd Text Books: ied Bammes, "T el McKinley and lition, 2007. P. (1995). Carto is, A. (2021). Figures	<ul> <li>Atippling.</li> <li>Understand and apply 2-point and 3-point performed and apply 2-point and 3-point performed and apply 2-point and 3-point performed and the second and the second and the second are second are second are and the second are an uncertain and the secon</li></ul>	rspect nentin ertiar dersta s with Public Graw H Walter s.	tive for real og with diffe y colors effe anding of co depth and eations, 2004 Hill Higher E Foster Publ	istic erent ectively. olor visual Education;
Reference a Gottfr Micha 2nd ed Blair, Loomi Online Reso https://www.	nd Text Books: ied Bammes, "T el McKinley and lition, 2007. P. (1995). Carto is, A. (2021). Fij ources artistsnetwork.c	stippling. Understand and apply 2-point and 3-point performental drawings. Draw their own face accurately while experime trawing styles. Mix primary colors to create secondary and the Create a color wheel that demonstrates an unrelationships. Use 1-point perspective to construct 2D scene appeal. The Artist's Guide to Human Anatomy", Dover a divide the Valerie O'Loughlin, "Human Anatomy", McCoron Animation: The Collector's Series (p. 224).	rspect nentin ertiar dersta s with Public Graw H Walter s.	tive for real og with diffe y colors effe anding of co depth and eations, 2004 Hill Higher E Foster Publ	istic erent ectively. olor visual Education

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)	M(2)	S(3)	L(1)	M(2)
CO5	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.6	2.6	2	2.2	1.8	2.2	2.4	2.2	2.2

**Course Outcome VS Programme Outcomes** 

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	S(3)	S(3)	M(2)	S(3)
CO3	M(2)	M(2)	S(3)	S(3)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2.4	2.2

S-Strong (3), M-Medium (2), L-Low (1)

	1	III-Semester-Core	1	T	
Core	Course Code: 83533	Interactive Animation Techniques	Т	Credits: 3	Hours:
Objective s	<ol> <li>To confirmanage</li> <li>To unde adjustme creating</li> <li>To demo between techniqu</li> <li>To desig animated</li> <li>To unde Script 3.</li> </ol>	idently navigate the software's work area, under various elements of the user interface effective rstand stroke and fill manipulation, shape creat ent, grouping, and proficient use of tools such dynamic visual compositions onstrate an understanding towards creating and frames, layers, classic tweening, shape tween uses. gn captivating banner advertisements using grad d captions, and the blur filter to maximize user rstand masking techniques, creating interactive 0 code to develop an interactive recipe book we rules and utilizing scene navigation through fr	ely. ttion, of as the mation ing, an uphic system r engag e butto vith even	bject selection, pen, brush, and s using keyfrar d frame-by-fran mbols, align p ement ns, and writing ent handlers, ac	contour pencil fo nes, in ne anels, Action lhering to
Unit I	Getting to knov properties - tim	v the work area - choosing a new workspace eline- using the properties inspector – worki ring a movie – publishing a movie			
Unit II	Working with g – changing shap tool – free trans	raphics – understanding strokes and fills – crope contours – grouping objects – using the stroke form tool – applying a gradient fill – using the	ub sele brush	ction tool – us tool – pencil to	ing the p
Unit III		tion – about animation – keyframes – inbe- ecting multiple frames – using classic tween – le animation.			
Unit IV	ad design tips -	bol advantages – Graphic symbols – creating using the align panel – adding and animating	the cap	tion – using the	e blur filt
Unit-V	actions panel -	ating buttons – understanding Action Scrip creating event handlers for buttons – naming be book – about scenes – goto And Play action	g rules	- fscommand-	
<ol> <li>Chun editio</li> <li>Gack Creat</li> <li>Myra (Nov</li> <li>Steph Edition</li> <li>TOM</li> </ol>	on 2017. Davidson, "A tespace Independ Ferguson, "He ember 15, 2017) nen Brooks, "Tr on", Stephen Bro I GREEN, "Beg	e Animate CC Classroom in a Book (2018 re dobe Animate CC 2017: The Complete lent Pub; 1 edition January 2017. ow to Cheat in Adobe Animate CC 1st 1 radigital Animate CC: 12 Principles of Ar poks, CRC Press; 1 edition (October 21, 2016) inning Adobe Animate CC: Learn to Efficien nt", Apress; 1st ed. edition (March 9, 2017).	Begin Edition himatio	nner's Guide", ", CRC Press n in Adobe A	Publisho ; 1 editi animate 1

https://www.youtube.com/watch?v=Xv0kUo3vi I&list=PLd4LgJMeZtWUVdPQfEdVjTBa-r0LafkWp https://www.youtube.com/watch?v=f1LOjz9GRRw

CO1 Confidently navigate and utilize Adobe Animate's workspace, stage, timeline, properties inspector, panels, and tools panel to create, preview, and publish interactive animations.	K1
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CO2	To show proficiency in creating and manipulating shapes, applying gradients, and using various selection and drawing tools to create visually appealing digital artwork.	K3&K6
CO3	Able to show proficiency in creating animations, utilizing keyframes, in between frames, layers, classic tweening, shape tweening, and frame-by-frame techniques for dynamic and engaging visual storytelling.	K4
CO4	Able to show proficiency in creating captivating banner advertisements by leveraging graphic symbols, aligning elements effectively, adding animated captions, and applying the blur filter to enhance visual impact.	K5
CO5	Achieve a comprehensive understanding of creating interactive multimedia content by mastering masking techniques, button creation, ActionScript 3.0 scripting, event handling, and utilizing frame-based navigation for dynamic user experiences	K2&K6

**Course Outcome VS Programme Outcomes** 

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	M(2)	M(2)	L(1)	L(1)	L(1)	S(3)	M(2)	M(2)	M(2)
CO2	L(1)	L(1)	M(2)	L(1)	M(2)	L(1)	M(2)	L(1)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)
CO4	M(2)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)
CO5	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.2	2.4	2.4	1.8	1.6	1.6	2.2	1.8	2	2.2

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	L(1)	S(3)	M(2)	M(2)
CO2	M(2)	L(1)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.2	2	2.6	2.2	2.2

		III-Semester-			
	(	Core			
Core	Course Code 83534	2D Graphics & Animation	Т	Credits: 3	Hours: 3
Objective s	<ul> <li>stretch a compell</li> <li>2. Master t symbol essential lines, ac</li> <li>3. To mast shot sele narrative</li> <li>4. To demo frame-by captivat</li> <li>5. Apply a</li> </ul>	onstrate an understanding towards the principle nd squash, timing, anticipation, and more, ena- ing and engaging animated content he principles of 2D computer animation, inclu- creation, tweening, easing in and out, hinging ls encompassing script importance, conflict, sc- tion, and dialogue er the art of visual storytelling through effective ection, including understanding camera moves e impact. onstrate comprehensive understanding towards y-frame sequences, character rigging, and mot ing scenes, special effects, and mask animation adio integration in animation, from creating ar ng lip sync and character vocalization for a con	bling symb creenp ve sto and t s the a ion guns nd imp	them to creat timeline utiliz ols, and script olay anatomy, ryboarding an ransitions to e art of animatic uides to creati porting sound	e ation, t writing scenes, slug d camera enhance on, from ng to
Unit I	<b>Introduction t</b> animation : stre and overlapping	<b>Animation</b> – types of animation – the trac tch and squash – timing and motion – anticipa g action – straight ahead action and pose to p tion – secondary action – appeal – solid drawing	dition ation - oose a	al process – – staging – fo	principles o llow throug
Unit II	<b>2D Computer</b> a hinging symbol scenes – slug lin	animation concepts: the timeline – symbols - s – script writing: importance of script – con ne – action – dialogue.	– twe flict –	- anatomy of	screenplay
Unit III	shot – the mid l – cutaway shot moves – zoom	reating a storyboard – basic camera shots – t ong shot – the close up shot – the extreme clos – cut in shot – over the shoulder – point of vi in/zoom out – truck in/truck out – camera tran blur, pan or zip pan	se up iew sł	<ul> <li>other useful</li> <li>not – noddy sl</li> </ul>	camera sho hot – camer
Unit IV	Animation pro frame) - cartoo motion guide - body parts into distribute to la animation - fou effects animatio	<b>cess</b> – frame by frame animations - onion sonish vehicles loop animations using tween ease in and ease out - preparing the character o separate symbols – creating symbols – set yers – creating the walk cycle - attitude w r leg walk cycle - background panning and zon n - mask animation.	- bal r for a tting valk o oomir	Il animation of animation – d pivot points cycle - run c ng - using sce	using classi issecting th – rigging ycle - jum nes - specia
Unit-V	managing audio Audio – lip syn sounds – makin two character ac	g and importing audio – sound recording tips o files – editing audio – using outside softwa ic hing – basic cartoon phonetics and vocaliz g words – Anime dialogue - single character eting and lip sync animation - Animation demo	are –j ation acting	preparing the – the vowels g and lip sync	timeline fo – consonar
<ol> <li>Bill</li> <li>Hedl</li> <li>Sand Prod</li> <li>Steve</li> <li>Tony</li> </ol>	ey Griffin, "The ro Corsaro and C uction Revolutio e Roberts, "Char	2D animation in a small studio", GGC Publis Animator's Guide to 2D Computer Animation Clifford J. Parrott, "Hollywood 2D Digital Ani n", Course Technology PTR; 1 edition, 2004. acter Animation: 2D Skills for Better 3D", Foc tion from Pencils to Pixels: Classical Techniqu , 2006.	", Foo matio al Pre	cal Press, 200 on: The New F ess; Second ed	Tash lition, 2007.

Online R	esources:	
https://you	utube.com/playlist?list=PLNaAcA0yN3KY2SK8TcDEMWjxydzxWkEUB&feature	e=shared
https://ww	vw.youtube.com/@NobleFrugal/videos	
	utube.com/playlist?list=PL1A1FEDA47ADC18D4&feature=shared	
https://you	utube.com/playlist?list=PL40CCm7kKzr4aL4tPfERT9bI9mTtRjMtW&feature=sha	red
CO1	Demonstrate a deep understanding of animation principles such as stretch and squash, timing, anticipation, and more, enabling them to create animated content that is engaging and visually captivating	K1
CO2	Able to show proficiency in principles of 2D computer animation, including timeline utilization, symbol creation, tweening, easing in and out, symbol hinging, and script writing essentials.	K3&K6
CO3	Show proficiency in visual storytelling through effective storyboarding and camera shot selection. They will understand various camera moves and transitions, enhancing their ability to craft narratives with a significant impact on the audience.	
CO4	To show comprehensive understanding of animation, ranging from frame-by- frame sequences and character rigging to motion guides, scene creation, special effects, and mask animations. They will be well-rounded animators capable of tackling diverse animation challenges	V5
CO5	Audio integration in animation effectively, from creating and importing sound to perfecting lip sync and character vocalization.	K2&K6

**Course Outcome VS Programme Outcomes** 

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	S(3)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	L(1)
CO5	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.4	2.4	2.2	2	2.2	2.4	1.8	2	2.4

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	S(3)	M(2)	M(2)	S(3)
CO2	M(2)	M(2)	L(1)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	M(2)	S(3)	S(3)
W.AV	2.2	2.6	2	2.4	2.6

		III-Semester -Core		1	1
Core	Course Code 83535	2D Graphics & Animation -Practical	Р	Credits: 3	Hours:5
Objective	1. To unde spacing, 2. To unde well as p effective2. To unde well as p effectivee3. To dem 	erstand and apply fundamental animation princ , and anticipation, to create smooth and believa erstand storyboards, including shot composition plan the production process for a 2D animation e pre-production skills. onstrate their ability to navigate the software's nes, use the timeline, and manipulate vector gra erstand 2D characters, including walk cycles, fa er interactions, showing a solid grasp of charac- ues erstand project development and collaboration	ible 2E n and s n projec interfa nphics. acial ez ter des	) animations cene transiti ct, demonstr ce, create xpressions, a ign and anin	ons, as ating and nation
<ul> <li>und</li> <li>2. Cha ado</li> <li>3. Lip with syn</li> <li>4. Sto turr and</li> <li>5. Wa wei wal</li> </ul>	erstanding of fund aracter Design and be animate. Anime Sync Animation in accurate lip sync chronizing the spec ryboarding and A it into an animate scene transitions. Ik Cycle Animate ght, balance, and ks (e.g., confident	ion - Animate a character in a convincing walk fluidity in the character's movements. Experim t, sneaky, tired).	and rig gue (pr ng emo nd anin plan ca c cycle nent wi	it for anima rovided or se tions and nation seque amera angles . Pay attention th different t	tion using elf-written ence. Then s, pacing, on to types of
Foc	us on character ac	<b>on</b> - Animate two characters interacting with ex- cting, body language, and conveying a clear na Create an effects animation sequence, such as	rrative	through ani	mation.
Exp 8. <b>Par</b>	olore different tech callax Animation	hniques and tools for achieving realistic and vis - Design and animate a 2D parallax scene, wh	sually ere for	appealing ef eground and	fects
9. Tra Mo	ditional Animati use, Donald Duck uniques. This assign tfolio Piece - Dev	s move at different speeds to create a sense of d ion Techniques - Choose a classic Disney-styl and animate a short sequence using traditional gnment emphasizes the importance of timing a velop a 2D animation project of your choice. T	le chara al fram nd spa his cou	acter (e.g., N he-by-frame cing.	Iickey animation t film,

Outcome	<ol> <li>Able to show proficiency in fundamental animation principles such as timing, spacing, and squash-and-stretch. They will be able to apply these principles to create animations that convey a sense of realism, weight, and fluid motion</li> <li>Able to create effective storyboards and animatics that serve as a blueprint for their animations. They will learn how to plan and organize their animation projects, including character and scene design, to ensure a clear and cohesive narrative.</li> <li>Able to master the art of character animation, including techniques for creating convincing character movements, expressions, and personalities. They will lear to animate characters with a focus on lip syncing, body mechanics, and emotional conveyance.</li> <li>Able to develop project management skills specific to animation project within a given timeframe, collaborate effectively</li> </ol>
	nd Text Books: avis, "Creating 2D animation in a small studio", GGC Publishing, 2006
	y Griffin, "The Animator's Guide to 2D Computer Animation", Focal Press, 2000
	Corsaro and Clifford J. Parrott, "Hollywood 2D Digital Animation: The New Flash ction Revolution", Course Technology PTR; 1 edition, 2004
4. Steve 2007	Roberts, "Character Animation: 2D Skills for Better 3D", Focal Press; Second edition,
5. Tony V	White, "Animation from Pencils to Pixels: Classical Techniques for the Digital Animato l Press; 1 edition, 2006

### **Online Resources**

https://youtube.com/playlist?list=PLNaAcA0yN3KY2SK8TcDEMWjxydzxWkEUB&feature=shared https://www.youtube.com/@NobleFrugal/videos

https://youtube.com/playlist?list=PL1A1FEDA47ADC18D4&feature=shared https://youtube.com/playlist?list=PL40CCm7kKzr4aL4tPfERT9bI9mTtRjMtW&feature=shared

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	S(3)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	L(1)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	2.2	2	2.2	1.8	2.4	2.4

**Course Outcome VS Programme Outcomes** 

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	L(1)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	S(3)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2	2.6	2.2	2.4

	~	III-Semester -Allied		1	1
Allied	Course		-		
	Code	Pre Production & Shooting Techniques	T	Credits: 3	Hours:3
	83536				
		compelling script with well-defined characters	and a	logical plot	
	structure				
		allocate resources efficiently to ensure a cost-	effect	ive and time	y
	producti				
Objectiv		a visually cohesive aesthetic, designing sets a	nd pro	ps to match	the
e	1 5	overall look.			
		the shooting schedule, coordinating with the ca	ast and	crew to mir	nimize
	downtin			•	
		e clear communication among the cast and cre	w, ens	uring everyo	ne
		nds their roles. Idea / Concept - Synopsis – Background – W	mitima	ana lina sani	nt Soon
TT . • 4 T		p - Story board - defining the characters - T			
Unit I	· ·		ypes (	of character	- Plannin
	-	uling – Costume.	1 0	1 5	1
		Camera Movement – Low Angle – High Ang			
Unit II		- Ex Mid long shot – Long shot – Ex-Long sh	ot - C	amera pann	ing (left )
	right) (right to I	eft) – Camera tilt up – Camera tilt down.			
	C 1.1	Class Class Commerciation (De-1-1, 100, 1		(20 1	
TT:4 TTT		ng – Shot Composition – (Rules – 180 de			
Unit III	Aesthetics – Co	ontinuities - The rule of thirds - Clap board			
Unit III	Aesthetics – Co monitoring – Un	ontinuities – The rule of thirds – Clap board inderstanding lighting – 3 point lighting.	l - Ed	iting report	– Previe
Unit III	Aesthetics – Co monitoring – Un Camera lenses	ontinuities – The rule of thirds – Clap board nderstanding lighting – 3 point lighting. – Camera Aperture – Camera Shutter Speed	l - Ed	iting report de angle len	- Previe
Unit III Unit IV	Aesthetics – Co monitoring – Un Camera lenses lenses– Filters –	ontinuities – The rule of thirds – Clap board nderstanding lighting – 3 point lighting. – Camera Aperture – Camera Shutter Speed - DSLR digital cameras – Film camera – Diffe	l - Ed	iting report de angle len	- Previe
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CO1	Deep understanding of animation principles such as stretch and squash, timing, anticipation, and more, enabling them to create animated content that is engaging and visually captivating	K1
CO2	Principles of 2D computer animation, including timeline utilization, symbol creation, tweening, easing in and out, symbol hinging, and script writing essentials.	K3&K6
CO3	Show proficiency in visual storytelling through effective storyboarding and camera shot selection. They will understand various camera moves and transitions, enhancing their ability to craft narratives with a significant impact on the audience.	12.4
CO4	Understanding of animation, ranging from frame-by-frame sequences and character rigging to motion guides, scene creation, special effects, and mask animations. They will be well-rounded animators capable of tackling diverse animation challenges	17.5
CO5	Audio integration in animation effectively, from creating and importing sound to perfecting lip sync and character vocalization.	K2&K6

#### **Course Outcome VS Programme Outcomes**

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	M(2)	L(1)							
CO2	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	L(1)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	L(1)
W.AV	2.4	2	2.4	2.2	2.2	2	2.2	2.2	2.4	1.8

S-Strong (3), M-Medium (2), L-Low (1)

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	S(3)	S(3)	M(2)	M(2)	M(2)
CO4	M(2)	M(2)	L(1)	S(3)	M(2)
CO5	S(3)	M(2)	M(2)	M(2)	S(3)
W.AV	2.6	2.4	2	2.2	2.4

		III-Semester -Allied			
Allied	Course Code 83537	Interactive Animation Techniques- Practical	Р	Credits: 2	Hours:4
<ul> <li>an inte</li> <li>2. Riggin for int</li> <li>3. Intera action</li> <li>4. Physic anima</li> <li>5. Path a respondent</li> <li>6. Intera the stor</li> <li>7. Gestu influer</li> <li>8. Paralla paralla</li> <li>9. Intera naviga</li> <li>10. Respondent</li> </ul>	engaging 2. Explore rigging, 3. Understa animate 4. Create i optimal 5. Evaluate feedback raming Animation and Charac reractive animation and Charac reractive moven active Buttons s or sequences cs-Based Anim ted elements, su Animation - Ut nse to user input active Storytell ory or influence ince animated action ax effects, reaction at effects, reaction at through infoon onsive Animation	<ul> <li>ter Animation - Learn how to rig characters and nents and responses.</li> <li>and Triggers - Implement buttons and triggers based on user interactions.</li> <li>tation - Employ physics simulations to create ruch as gravity, collisions, and dynamics.</li> <li>tilize path tools to animate objects along design t.</li> <li>ing - Develop animated narratives that allow u its outcomes.</li> <li>Control - Implement gesture recognition or magental statement and the statement</li></ul>	s, such a and platfor throug itions and ani s to ini ealistic ated p ser int ation b er inter o diffe	a as keyfram integrate the rms and develow gh user test and movemed mate them, a tiate specific c interaction waths or traject eraction to p control to tra- by incorporate ractions revelow	aing and em into vices for ing and ents withi illowing animated s between ctories in rogress gger or ing al or
Outcome	2. Apply respon 3. Create charac variou 4. Learn ensuri experi 5. A sol	id understanding of the principles of interactive pts such as frame-based animation, interactivity vuser-centered design approaches to produce in nd seamlessly to user input and enhance engage e a portfolio of diverse interactive animation pr cter-driven narratives, interactive interfaces, an is platforms. techniques to optimize interactive animations ing cross-platform compatibility, responsivenes iences. id understanding of the principles of interactive pts such as frame-based animation, interactivity	y, and nteract ement. ojects d adap for dig s, and e anim	user engage ive animatio , encompass otable animation gital delivery user-friendle nation, include	ment. ns that ing tions for y ling key

#### **Reference and Text Books:**

- 1. Head, V. (2016). Designing interface animation (Vol. 240). New York: Rosenfeld Media.
- 2. Glassner, A. (2017). Interactive storytelling: Techniques for 21st century fiction. CRC Press.
- 3. Peters, K. (2007). Actionscript 3.0 Animation: Making Things Move. Friends of ED/Apress.
- 4. Johnston, O., & Thomas, F. (1981). The illusion of life: Disney animation (p. 576). New York: Disney Editions.
- 5. Richard, W. (2002). The Animator's Survival Kit.

#### **Online Resources**

https://www.youtube.com/watch?v=SrzVahzwVV4 https://www.youtube.com/watch?v=Q2HhqMqoijE https://www.youtube.com/watch?v=GozVrY64JM4

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	<b>PO8</b>	PO9	PO10
CO1	S(3)	S(3)	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	L(1)	M(2)	S(3)	M(2)	S(3)	M(2)	L(1)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	1.8	2.2	2.4	2	2.2	2.2	2.2	2.4

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### **Mapping Course Outcome VS Programme Specific Outcomes**

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	S(3)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2.2	2.2

		<b>IV-Semester -Core</b>							
Core	Course Code 83543	Non Linear Editing	Т	Credits: 4	Hours:4				
Objectiv e	<ul> <li>Final Cu</li> <li>Learn to arrangin</li> <li>Master f clips for</li> <li>Understa and main</li> <li>Develop</li> </ul>	proficiency in using non-linear editing sof at Pro, Avid Media Composer). organize and manage the editing timeline g, and trimming clips. Fundamental editing techniques such as cutt seamless storytelling. and and apply various transitions and effec ntain audience engagement. o skills in editing and mixing audio element and effects, to achieve balanced and impactf	efficiently ting, trimn ets to enhar ts, includir	r, including i ning, and rea nce visual sto ng dialogue,	mporting, rranging prytelling				
Unit I	Introduction to commands and progressive scan source view, pro	editing - Online editing – time code – interface – non linear editing – non de n video – editing time base – monitor win ogram view, timeline – relationship betwee itor window – editing clips into a sequence	in and ou estructive of ndow contr een the time	t point – el editing – in ols – functio eline and the	terlaced / ons of the program				
Unit - II	an external mot trimming using	– understanding title – title safe and action nitor – editing interface: three point edit slip and slide edits – using the trim winde want to trim.	ting – over	rlay and ins	ert edits				
Unit - III	transitions – c standard effect	inding edit you want to trim. transitions – displaying transitions – aligning transitions by dragging – replacing transitions – clip handles and transitions - Using workspaces – applying and controlling standard effects – removing multiple effects applied to a clip – animating effects – effects control window – reordering effects							
Unit IV	out point – play	Showing or hiding key frame area – showing or hiding the timeline beyond a clip's in and out point – playing audio in selected clip – applying video effects – changing filter effects and settings – change effects over time using key frames – removing all key frames of an							
Unit-V	automatically -	e rendering format – Understanding the ren working with the audio mixer window xport Settings – exporting different vide	- creating	g a storyboa	rd – audi				

#### **Reference and Text Books:**

- 1. Jones, S. B. (2013). Video color correction for non-linear editors: a step-by-step guide. Routledge.
- Yao, X., Newson, A., Gousseau, Y., & Hellier, P. (2021, September). Learning non-linear disentangled editing for stylegan. In 2021 IEEE International Conference on Image Processing (ICIP) (pp. 2418-2422). IEEE.
- 3. Talabbaev, R. E. (2020). Problems And Errors Of Video Editing Beginners. The American Journal of Interdisciplinary Innovations and Research, 2(10), 80-83.
- 4. Talabbaev, R. E. (2020). Problems And Errors Of Video Editing Beginners. The American Journal of Interdisciplinary Innovations and Research, 2(10), 80-83.
- 5. Park, S. D. (2019). Education of media by production of image contents-Focusing on Non-Linear Editing. Journal of the Korea Institute of Information and Communication Engineering, 23(9), 1096-1103.

Online	Resources	
What's	the Difference Between Linear and Non-Linear Video Editing?	
Non-lin	ear editing in HitFilm Express	
What Is	Linear & Non-Linear Narrative?   Let's Talk Theory	
CO1	Attain proficiency in using non-linear editing software (e.g., Adobe Premiere Pro).	K1
CO2	Develop the ability to efficiently organize and manage the editing timeline, including importing, arranging, and trimming clips.	K3&K6
CO3	Master fundamental editing techniques such as cutting, trimming, and rearranging clips for cohesive storytelling. Understand and apply various transitions and effects to enhance visual storytelling and maintain audience engagement.	
CO4	Acquire skills in editing and mixing audio elements, achieving balanced and impactful soundtracks. Gain proficiency in color correction and grading techniques to enhance visual consistency and storytelling aesthetics.	
CO5	Learn to integrate motion graphics, titles, and overlays effectively to enhance the overall visual appeal of the edited content. Explore advanced editing techniques such as keyframing, masking, and multicam editing for more complex and polished productions.	K2&K6

			<u> </u>	(3) M		(0) T				I
W.AV	2.4	2.6	1.8	2.2	2.2	2	1.6	2.2	2.4	2
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	L(1)	M(2)	S(3)	S(3)	L(1)	M(2)	S(3)	S(3)
CO1	S(3)	S(3)	L(1)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10

**Course Outcome VS Programme Outcomes** 

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	L(1)	S(3)	M(2)	M(2)
CO2	M(2)	L(1)	S(3)	M(2)	L(1)
CO3	M(2)	S(3)	S(3)	M(2)	S(3)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.2	2	2.6	2.2	2

	IV-Semester -Core									
Core	Course Code 83544	<b>3D Design</b>	Т	Credits: 4	Hours:4					
Objective	<ul> <li>modeling tec</li> <li>2. Learn the privisually com</li> <li>3. Acquire skill dynamic and</li> <li>4. Explore the printing technology</li> <li>5. Understand to the printing technology</li> </ul>	ficiency in creating intricate 3D models, c hniques and progressing to advanced stru nciples of lighting, texturing, and renderi pelling 3D environments. s in 3D animation and character rigging, lifelike animations. process of preparing 3D models for printin nologies, and translating digital designs in he fundamentals of designing for virtual in interaction, and the creation of immersive	ctures. ng to c enablir ng, und nto phy ceality,	reate realistic ng the creation lerstanding v visical prototy encompassi	c and on of various 3D vpes.					
Unit I	manipulating and m curves – editing curv	r interface – working in 3D – views noving objects – perspective and orthog yes – attaching and detaching curves – in points to a curve – using curve editing too	raphic serting	windows -	- creating					
Unit II	polygons – append	puilding surfaces – surface fillets – st polygon tools – combine – polygon Bo I – subdivision surfaces – polygon reduces and edges.	oleans	– mirror ge	ometry –					
Unit III	modeling – Modeli	to create a model – creating Basic table to ng an Exterior shot – hypershade - u the Robot – texturing table top Props - to	ndersta	anding Mate	rials and					
Unit IV	Primitive Rig - tradi the time slider – set auto key – key fram key frames – editing	Rigging – joints and tools – ik - Fk – spline ik – Types of Constrains - Skinning – Primitive Rig - traditional animation fundamentals – the wave principle – overlap – using he time slider – setting playback range – setting playback speed – setting key frames – auto key – key frame options – channel control – editing key frames – editing timing of key frames – editing in- between – changing a key pose – moving and scaling keys – cutting, copying and deleting keys – using breakdowns – animation types – using graph								
Unit V	Adding lights – ligl ambient lights – spo – working with shac creating cameras – display region – saf images the render vi	nt theory – artistic theories – types of l t lights – point lights – directional lights dows – depth map shadows – baking sha focal length – cameras – types of came e action – safe title – use background – ew – navigating in the render view – keep snapshots – setting render global – imag	– area adows ras – 1 -conve oing in	lights – volu – ray traced resolution ga rting 3d sce nages in rend	ime lights shadows ate – safe nes to 2d ler view –					

- 1. Tang, Y. M., & Ho, H. L. (2020). 3D modeling and computer graphics in virtual reality. In mixed reality and three-dimensional computer graphics. IntechOpen.
- Maloy, R., & Edwards, S. (2020). Makerspaces and 3D Printing: A Learning-by-Doing Professional Development Model for Preservice and Inservice Teachers. In Next Generation Digital Tools and Applications for Teaching and Learning Enhancement (pp. 201-220). IGI Global.
- 3. Maloy, R., & Edwards, S. (2020). Makerspaces and 3D Printing: A Learning-by-Doing Professional Development Model for Preservice and Inservice Teachers. In Next Generation Digital Tools and Applications for Teaching and Learning Enhancement (pp. 201-220). IGI Global.
- Arevalo, K., Tovar, M., & Li, J. (2021). Creating Games with Unreal Engine, Substance Painter, & Maya: Models, Textures, Animation, & Blueprint. CRC Press.
- 5. Villanueva, N. (2022). Beginning 3D Game Assets Development Pipeline.

#### **Online Resources**

Autodesk Maya | Model a Seaside Fishing House | Exterior modeling | M#7 Autodesk Maya 2020 - How to Make a Simple Stylized Boat \_ Feat\_Pietro Chiovaro Autodesk Maya 2020, Zbrush 2020, Substance Painter - Stylized Axe Quick Rigging and Skinning a character for beginners

CO1	Create compelling 3D animations and visual effects for films, TV shows, and digital media.	К1
CO2	Design and model characters, environments, and assets for use in video game development.	K3&K6
CO3	Develop realistic 3D renderings of architectural designs and interiors for visualization purposes.	K4
CO4	Design detailed 3D models of products and prototypes for manufacturing and product development.	К5
CO5	Build immersive 3D environments and experiences for virtual reality applications and simulations.	K2&K6

#### **Course Outcome VS Programme Outcomes**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	L(1)	M(2)	L(1)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)						
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	1.6	2.2	1.8	2

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	M(2)
W.AV	2.4	2.6	2.4	2.2	2.2

Mapping Course Outcome VS Programme Specific Outcomes

		<b>IV-Semester -Core</b>			
Core	Course Code 83545	<b>3D Design-Practical</b>	Р	Credits: 3	Hours:5
Objectiv e	models, 2. Compre NURBS 3. Learn to and visu 4. Acquire dynamic 5. Execute demonst	o proficiency in using industry-standard 3D d textures, and animations for various applicat hend and apply diverse 3D modeling technic and sculpting to create complex 3D objects apply textures, materials, and lighting effect al appeal of 3D models and scenes. skills in rigging and animation to bring 3D f c and engaging visual narratives. practical projects involving the creation of 3 trating the ability to conceptualize, design, an purposes or industries.	tions. ques such s. tively to models t 3D assets	n as polygons enhance the o life, creatir s and scenes,	al, realism ng
<ol> <li>Chara focusi</li> <li>Archi archit</li> <li>Produconsid</li> <li>Envir space</li> <li>Motio graph</li> <li>Chara charac intera</li> <li>3D Pusucces</li> <li>Speci effect</li> <li>Intera</li> </ol>	acter Design an ing on details, te itectural Visual ectural structure uct Visualization dering textures, conment Creati , or futuristic se on Graphics In- ics sequences us acter Rigging a cter for movement ctions. rinting Prepara ssful printing, cu al Effects and S s, or cloth simul active 3D Expe	te a detailed 3D model using software like B ad Animation: Develop a 3D character mod extures, rigging, and animation to bring the c lization: Design and render a detailed 3D me e, emphasizing lighting, textures, and realistic on: Create a visually appealing and realistic 3 materials, lighting, and presentation for mark ton: Construct a 3D environment or scene, su tting, focusing on composition, lighting, and tegration: Blend 3D elements into live-action sing 3D models, incorporating elements sear and Animation: Dive deeper into character a ent and creating a short animation showcasin ation: Design a 3D printable model, ensuring onsidering structural integrity, supports, and Simulation: Experiment with simulations su lations to create realistic effects in a chosen s rience: Develop an interactive 3D experience ering user interaction and immersion for an en-	el from o character odel of a c render 3D repre keting on uch as a atmosph on footag nlessly in animatio g its acti g it meet printabi uch as flu scenario. ce or virt	concept to co to life. building, ho ing. sentation of promotiona landscape, in here. ge or create n nto video pro n by rigging ons, emotion s the required lity. id dynamics	ompletion ouse, or a product l purpose iterior notion ojects. a ns, or ments for , particle /R)
	mode	we proficiency in using industry-standard 3D ls, textures, and animations effectively.	-	software to c	rooto

- 1. Dorsey, J., Rushmeier, H., & Sillion, F. (2010). Digital modeling of material appearance. Elsevier.
- 2. Vaughan, W. (2011). Digital modeling. New Riders.
- 3. Murdock, K. (2023). Autodesk Maya 2024 Basics Guide. SDC Publications.
- 4. Leach, J. A., & Lockhart, S. (2023). AutoCAD 2024 Instructor: A Student Guide for In-Depth Coverage of AutoCAD's Commands and Features. Sdc Publications.

#### **Online Resources**

https://www.youtube.com/watch?v=I4Z1VLmgYdw https://www.youtube.com/watch?v=BmvGSO9MIMs

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	L(1)	M(2)	S(3)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)						
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	1.8	2.2	2.4	2.2

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	S(3)	L(1)	M(2)	M(2)
CO2	M(2)	M(2)	L(1)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	S(3)
W.AV	2.2	2.6	2	2.2	2.4

		IV-Semester -Allied			
Allied	Course Code 83546	Advanced Art	Т	Credits: 3	Hours:3
Objectiv e	<ul> <li>precision</li> <li>2. Explore narrative</li> <li>3. Integrate art piece</li> <li>4. Develop styles, th</li> <li>5. Push cree</li> </ul>	and master advanced techniques to convey en e depth in artworks. e various mediums and materials innovatively	notions to crea	s, atmosphere ate unique an oficiency in t	e, and d textured multiple
Unit I	blocks – steps i different perspe	y - Line of action – Constructing stick figures n full body finish – action poses – fore sho ctives – male body proportions - female bo low lines – Animal anatomy basics – Birds ar	rtening dy pro	g – drawing portions – v	figures in
Unit II	views – Drawin muscles in vario - Hands and fee	Male body muscles - Female body muscle ag arms and legs in different views – Draw bus views - Head study – Drawing heads in v t in various possible views - Details of facial xpressions and emotions.	ing the arious a	e Torso- Stu angles – Fem	dying the ale heads
Unit III	Distinct, Person 3D Visualization character, Mad	n – Essentials of character designing – A ality, Originality, Purpose, Target audience, on etc Character types – Heavy villat weird character. Ridiculous/ Humorous character. esign – Developing props diagrammatically.	Exagg nous o	erated chara character, P	cteristics, retty/Cute
Unit IV	in different angland consonants	<ul> <li>Over-lays and Under-lays – Creating pann les and different lightings- Art for Animation</li> <li>Character sheet/ Model sheet- Drawing a und - developing a character in front, side and</li> </ul>	n – Lip 1 chara	movements cter in vario	– Vowels ous action
Unit V	walks - Drawin animation draw	wings – Drawing 8 stages of a walk - Run ng animation sequences – Straight ahead wings - Extremes, Break ups and In-betwee tation of an idea, design or mood	vs. Pos	e-to-pose m	ethods of
<ol> <li>Jelal of th</li> <li>Bafe Oper</li> <li>Panc</li> <li>Panc</li> <li>Debr App</li> </ol>	e art and advance ekrpour, E. (2017) n. ofsky, E. (2023). nath, P., Torres, I lications. CRC Pr cher, S. (2023).	<ul> <li>B. (Eds.). (2009). Detection and diagnosis of ed methods.</li> <li>Advanced composite materials: properties a</li> <li>The life and art of Albrecht Dürer. Princeton D. F., &amp; Cho, Y. J. (Eds.). (2023). Advanced D</li> </ul>	und app Univers Mathen	lications. De sity Press.	Gruyter
Architectur Drawing fa	re Art Sketch Phones tutorial	toshop Action Tutorial - Advanced			

CO1	Develop a standout portfolio showcasing advanced skills, diverse styles, and thematic coherence.	K1
CO2	Attain recognition through participation in art exhibitions, fostering visibility and credibility within artistic communities.	K3&K6
CO3	Cultivate a unique and recognizable artistic voice, characterized by innovation, personal expression, and thematic depth.	K4
CO4	Establish professional connections through representation, galleries, and participation in the broader art industry.	K5
CO5	Contribute to the artistic community by sharing knowledge through workshops, mentoring, or educational initiatives.	K2&K6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	L(1)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	L(1)	S(3)	S(3)
CO3	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2	2.2	2.2	2	2.2	1.6	2.4	2

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.6	2.2	2.4

		IV-Semester -Allied		-1	1
Allied	Course Code 83547	Advanced Art-Practical	P	Credits: 2	Hours:4
Objectiv e	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Explore and master various art mediums such sculpture, or digital art to broaden artistic exp Develop advanced techniques in drawing, pai on precision, detail, and nuanced execution. Cultivate the ability to conceptualize and exec emphasizing creativity, originality, and persor Create a comprehensive portfolio showcasing artworks demonstrating proficiency, creativity course. Engage in critical analysis and self-reflection, evaluate one's own work and that of others, fo improvement.	ression. nting, a pute cor- nal artis divers y, and g honing	and sculpting nplex artistic stic vision. e and advance rowth throug g the capacity	g, focusing b ideas, ced ghout the y to
<ul> <li>such a</li> <li>Adva perspo</li> <li>Conce origin</li> <li>Narra conve</li> <li>Adva studer</li> <li>Adva detaile figure</li> <li>Critic analyz</li> <li>Art H mover</li> <li>Profe framin</li> <li>Self-H</li> </ul>	as paint, collage nced Technique ective, composi- eptual Artistic al ideas, explor ative Painting by a message, ex- nced Color The nts how to use of nced Figure D ed anatomical s drawing. Jue and Art Art zing art and pro- listorical Know ments, artists, a ssional Presen ng, exhibition s Cvaluation and	<b>pration:</b> Encourage students to experiment with e, found objects, and digital elements to create <b>ies Development -</b> Refine advanced technical ition, and color theory for intricate and detaile <b>Development -</b> Cultivate the ability to develor ring deeper conceptual themes in artworks. <b>Series:</b> Task students with creating a series of xploring sequential art techniques and storytel <b>reory and Emotional Impact:</b> Deep dive into color to evoke specific emotions and atmospher <b>rawing and Anatomy Studies:</b> Dive deeper if studies and life drawing sessions to enhance un <b>nalysis -</b> Engage in constructive critique session widing valuable feedback to peers for mutual y wledge - Gain a deeper understanding of art his and their impact on contemporary art practices <b>tation Skills -</b> Learn professional presentation etup, and digital portfolio creation for public of <b>Reflection -</b> Cultivate self-reflection skills to tes, and areas for improvement in artistic practices	dynam skills i d artwo op and o paintir ling thr color p eres wit nto the nderstan ons, ref growth story, s techni display.	nic artworks. In drawing, slorks. express comp ngs that tell a rough visual rosychology, t shin their artw human form nding and ma ining skills in studying diffe	hading, plex and story or narrative. eaching vorks. through astery of n erent
Outcome	brush rende 2. Exhit depth 3. Show tradit 4. Deve indiv 5. Comj	bit the ability to conceive and execute artwork and emotional resonance, showcasing advance case proficiency in multiple artistic mediums, ional, digital, mixed-media, or interdisciplinar lop a distinct and identifiable artistic style, ref iduality while exploring diverse themes and su pile a sophisticated portfolio highlighting a co- vative, and critically reflective artworks demor	ng, or s s with p ced crea display y appro lecting lbject n llection	ophisticated profound con ative thinking ying expertis paches. personal visi natters.	ceptual g. e in ion and

- 1. Graham, M. A. (2009). Advanced placement in studio art and secondary art education policy: Countering the null curriculum. Arts Education Policy Review, 110(3), 18-24.
- 2. Graham-Dixon, A. (2008). Art: the definitive visual guide. London: Dorling Kindersley, 2008.
- 3. Indraratna, B., Rujikiatkamjorn, C., & Salim, W. (2023). Advanced rail geotechnology-ballasted track. CRC press.
- 4. Dunphy, L. M., Winland-Brown, J., Porter, B., & Thomas, D. (2015). Primary care: Art and science of advanced practice nursing. FA Davis.
- 5. Sullivan, G. (Ed.). (2010). Art practice as research: Inquiry in visual arts. Sage.

### **Online Resources**

Drawing For Concept Art: TUTORIAL GUIDE From Beginner to Advanced LEARN TO DRAW FROM 0 to 100! | Roadmap| DrawlikeaSir Watercolor painting tutorial - Cloudy Landscape

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	L(1)	M(2)							
CO2	L(1)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)
CO3	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	S(3)
CO4	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	1.8	2	2.2	2.2	2.2	2	2.2	2.2	2.4	2.4

#### **Course Outcome VS Programme Outcomes**

S–Strong (3), M-Medium (2), L-Low (1)

#### **Mapping Course Outcome VS Programme Specific Outcomes**

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	M(2)	S(3)	L(1)
CO2	S(3)	M(2)	M(2)	M(2)	L(1)
CO3	M(2)	S(3)	M(2)	S(3)	S(3)
CO4	M(2)	M(2)	S(3)	M(2)	M(2)
CO5	S(3)	S(3)	M(2)	M(2)	S(3)
W.AV	2.6	2.6	2.2	2.4	2

		V-Semester -Core				
Core	Course Code 83551	Motion Graphics T	-			
Objectiv e	<ul> <li>creating</li> <li>2. Demonstiming, 1</li> <li>3. Acquire community</li> <li>4. Develop impact at 5. Execute</li> </ul>	proficiency in utilizing industry-standard motion grap compelling visual animations and effects. trate an understanding and application of key animatio notion, and composition to develop engaging motion g the ability to use motion graphics as a means of effect nication, utilizing typography, imagery, and animation. skills in integrating visual effects and enhancements t and quality of motion graphic projects. practical projects demonstrating learned techniques, en of professional-level motion graphics for various cont	on principle graphics. ive storytel to elevate the mphasizing	es like lling and he visual g the		
Unit I	based composit	Motion graphics - Compositing techniques- Interface ing - Workspace and workflow - Creating Project w ers and properties - View and previews - Animation	window - 1	Importing		
Unit II	animation prese	ing and paths – Text - Transparency and composets - Markers - Expression and automation - Render of composting – attribute scale, rotate, transform or mo	ing and ex	porting -		
Unit III	tools – Underst	the rotoscopy – Masking – different types of spline anding the keying – Keylight - 2d tracking and track in tecking and match moving.				
Unit IV	What is motion audio file – und Navigating the 3	n graphic? Creating project window - creating a tex erstanding the different type of video format – unders 3d text from 3d software – Understanding effects and p	tanding the preset.	e render –		
Unit V	adjusting partic	rounds and 4 color gradient – cc particle world op ele option producers, Physics, Shaded – Understan avigating animation composer menu – Understar e	ding the a	animation		
<ol> <li>Shave</li> <li>Beta</li> <li>Mey adva</li> <li>Byrr Fran</li> <li>Croce Blood</li> </ol>	ncourt, M. (2020 er, C., & Meyer, nced techniques. he, B. (2012). 3D cis. ok, I., & Beare, P omsbury Publishin	ign for motion: fundamentals and techniques of motion ). The history of motion graphics. Wildside Press LLC T. (2013). Creating motion graphics with After Effects Taylor & Francis. motion graphics for 2D artists: conquering the 3rd dim . (2017). Motion graphics: Principles and practices from	2. s: Essential nension. Ta	and and wylor &		
qeciwXOV	w.youtube.com/w VYChBqgPtWh	/atch?v=iQXa8UG10DQ&list=PLv- oDYiDnXPBU1 /atch?v=d8E4UEVdkXM				
CO1	· ·	ncy in using industry-standard software to create visua polished motion graphics.	ılly	K1		
CO2		ental animation principles to design and execute captives, emphasizing timing, motion, and visual storytelling	•	K3&K6		
CO3	<b>.</b>	ility to convey messages effectively through motion g ography, imagery, and animation for clear communica	· ·	K4		

CO4	Learn to incorporate and manipulate visual effects, enhancing the impact and aesthetic appeal of motion graphic projects.	K5
CO5	Create a comprehensive portfolio showcasing diverse motion graphic projects, highlighting skills, creativity, and versatility in motion design.	K2&K6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	L(1)	S(3)	L(1)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	M(2)	S(3)	M(2)	M(2)						
CO5	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.2	2.6	2.4	1.8	2.2	1.8	2.2	2.2	2.4	2

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	L(1)	S(3)	M(2)	S(3)
CO2	M(2)	M(2)	S(3)	S(3)	M(2)
CO3	M(2)	M(2)	S(3)	M(2)	S(3)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2	2.6	2.2	2.4

C	0	V-Semester -Core		1						
Core	Course									
	Code	<b>Dynamics Simulation</b>	1	Credits: 4	Hours: 4					
	83552	accurate and realistic physics simulations for	abject	and enviro	nments					
		within virtual spaces.								
			maga	for opplier	tions like					
		ns, games, and engineering analyses.	gasse	s, for applied						
Objectiv			stic m	ovement and	1					
e	3. Implement dynamic cloth simulations to replicate realistic movement and interaction in virtual garments or fabrics.									
C		igid body dynamics to simulate the motion and	linter	action of sol	bi					
	inflexible objects within a virtual environment.									
		ynamic particle systems for effects such as sm	oke. fi	re, explosio	ns. and					
		nplex visual phenomena.	,	, <b>1</b>	,					
		ions – Create Emitter – Emit from the object -	- Use	selected Em	itter – Pre					
TT . •4 T		rates – Make collide – Particle Collision Eve								
Unit I	(Replacement) -	- Sprite Wizard – Emitter types – Omni – Su	objects and environments gasses, for applications li stic movement and d interaction of solid, oke, fire, explosions, and – Use selected Emitter – I ent Editor - Goal – Instar urface – Volume – Curve article and emitters. avity field – Newton field – Volume axis – turbuler nuation – Different types fields. ication – Create active rig reate Pin constrain – Create – Set Passive Key – Bre freate two different types vumeric – Points – Sprits container – Make collide span PP – World Velocity using fields. serve – Hardware Renderif er attribute – setting up to oftware render and hardwa & Sons. for applied dynamics (Vo (ATLAB® and Simulink® W. A. (1983). Introductio ley Publishing Company.	- Curve -						
	Directional – Ci	eating two different types of example using pa								
		the types of field - Air field - Drag field - Gr								
Unit II	Radial field – turbulence field – Uniform field – Vortex field – Volume axis – turbulence									
Unit II		- Magnitude - Frequency – Noise level - Atter		bjects and environments gasses, for applications like tic movement and interaction of solid, oke, fire, explosions, and Use selected Emitter – Pre- at Editor - Goal – Instance rface – Volume – Curve – ticle and emitters. vity field – Newton field – - Volume axis – turbulence uation – Different types of elds. cation – Create active rigid eate Pin constrain – Create - Set Passive Key – Break eate two different types of umeric – Points – Sprits – container – Make collide – ban PP – World Velocity – sing fields. erve – Hardware Rendering r attribute – setting up the ftware render and hardware Sons. <i>or applied dynamics</i> (Vol. <i>ATLAB® and Simulink®</i> . V. A. (1983). <i>Introduction i</i> ey Publishing Company.						
		Creating two different type of example using fi								
	Introduction to Soft body / Rigid body simulation in 3d Application – Create active rigid									
	body – Create passive rigid body – Create nail constrain – Create Pin constrain – Create									
Unit III	Hinge constrain – Create Spring constrain – Set Active Key – Set Passive Key – Break									
		nnections – Paint soft body Weights tool – C	reate 1	two differen	t types of					
		ctive / passive rigid body.	<b>T</b> .		- ·					
	Introduction to Particle type - Multipoint – Multi streak – Numeric – Points – Sprits –									
Unit IV	Introduction to fluid effects – Fluid 2d container – Fluid 3d container – Make collide – Get fluid example – Ramp position – Ramp Velocity – Lifespan PP – World Velocity –									
			objects and environments d gasses, for applications like istic movement and d interaction of solid, noke, fire, explosions, and – Use selected Emitter – Pre- ent Editor - Goal – Instance ourface – Volume – Curve – article and emitters. ravity field – Newton field – l – Volume axis – turbulence enuation – Different types o fields. lication – Create active rigid Create Pin constrain – Create v – Set Passive Key – Breal Create two different types o Numeric – Points – Sprits – l container – Make collide – span PP – World Velocity – using fields. serve – Hardware Rendering der attribute – setting up the oftware render and hardware & Sons. for applied dynamics (Vol. <i>MATLAB</i> ® and Simulink®. W. A. (1983). Introduction							
		ion – Creating two different type of example u			) an damin a					
		e .			•					
Unit V	- Flip book clap – Clear Flip book options – Hardware render attribute – setting up the camera – Scale buffer – Render alpha sequence frame from software render and hardware									
	render.	ourrer – Kender alpha sequence frame from se	nwan	bjects and environment gasses, for applications tic movement and interaction of solid, ske, fire, explosions, and Use selected Emitter – at Editor - Goal – Insta rface – Volume – Curv- ticle and emitters. vity field – Newton fie - Volume axis – turbule uation – Different type Eds. cation – Create active r eate Pin constrain – Cr - Set Passive Key – Br eate two different type umeric – Points – Spri container – Make collic ban PP – World Veloci sing fields. erve – Hardware Rende r attribute – setting up ftware render and hardw Sons. <i>or applied dynamics</i> (V <i>ATLAB</i> ® <i>and Simulink</i> ( V. A. (1983). <i>Introducti</i> ey Publishing Company	naiuwait					
Reference	and Text Books	•								
		<i>aya Studio Projects: Dynamics</i> . John Wiley &	Sons							
		len, W. (Eds.). (2009). Simulation techniques			ics (Vol.					
		e & Business Media.	11	2						
		(2018). Simulation of dynamic systems with M	ATLA	B® and Sim	ulink®.					
Crc ]	Press.									
		n, D. F., Deal, R. M., Garet, M. S., & Shaffer, V								
com	puter simulation:	the system dynamics approach. Addison-Wesl	ley Pu	blishing Cor	npany.					
Online Re										
	B: MASH Dynam									
		ean and a floating boat in Maya   Autodesk		1.0	110.1					
	at Ubyging Simula	tion Interval, Wreeling Doll Animation Act	110 010	A Decentre Di	well have been					

CO1	Develop simulations that create immersive and realistic interactive virtual environments through dynamic simulations.	K1
CO2	Master the visualization of fluid dynamics, enhancing the realism of liquid and gas interactions in simulations.	K3&K6
CO3	SAchieve lifelike representation of cloth and fabrics in motion, considering factors like gravity and external forces.	K4
CO4	Showcase precision in simulating the movement and collisions of solid objects, ensuring realistic interactions within dynamic scenarios.	К5
CO5	Create captivating visual effects using dynamic particle systems, adding realism to phenomena like fire, smoke, or complex visual simulations.	K2&K6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)
CO2	S(3)	M(2)	S(3)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.6	2.4	2.2	2.2	2	2.2	2.2	1.8	2.4

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	S(3)	S(3)	M(2)	M(2)
CO2	S(3)	S(3)	S(3)	S(3)	S(3)
CO3	M(2)	M(2)	S(3)	S(3)	M(2)
CO4	M(2)	S(3)	M(2)	M(2)	M(2)
CO5	S(3)	M(2)	M(2)	L(1)	S(3)
W.AV	2.4	2.6	2.6	2.2	2.4

		V-Semester	1	1	1
	Course Code: 83553A	Elective I - 1.Concept Art	T	Credits: 4	Hours:4
Objective	<ol> <li>Develop character</li> <li>Apply co art piece</li> <li>Analyze represent</li> <li>Demonst</li> </ol>	and interpret creative briefs to effectively tran	for co to cra slate i	nceptualizin Ift compellin deas into vis	g ig concept ual
Unit I	Film, Animation Drawing and Fundamentals-C Sketching-Refin	Concept Art-Definition and Purpose-Role in V n)-Evolution and Historical Overview-Essentia Sketching Techniques-Digital Tools and Concept Art Process-Ideation and Brainstormin ement and Finalization	l Skill Sof g-Thu	s for Concer tware-Color imbnails and	ot Artists- Theory I Iterative
Unit II	Personality and Recognition-Co	gn Fundamentals-Anatomy and Proportions- I Backstory Development-Creating Memor stume Design-Iconic Features-Character Turn 3D Form-Presentation for Animation or	able narour	Characters-S nds and Pos	Silhouette e Sheets-
Unit III	World-Building Design Elem Cultural Influen	-Defining the Conceptual World-Mood and A ents-Architectural Concepts-Environmental ces-Establishing Scale and Perspective-Storyb rtelling-Scene Transitions-Visual Narration Te	Str oardi	uctures-Incong for Envir	orporating
Unit IV	Prop Design Bas in Narrative Co echnologies-Cor	sics-Defining Purpose and Function-Incorpora ntext-Weapon and Technology Design-Imagi nsistency with World-Building-Object Turn -Texture and Material Definition-Highlighting	ting St native aroun	tyle and The Weaponry- ds and Det	Futuristic
	Concept Art in Industry Applic Teams- Collab Meeting Dead	Various Industries-Gaming Industry Applica eations-Concept Art for Advertising-Workin oration and Communication-Receiving and lines and Milestones-Building a Concep iloring Portfolios for Job Applications-Online	ations g wit Impl ot Ar	-Film and A h Art Direc lementing F t Portfolio	ctors and Feedback- -Portfolio
<ol> <li>Lilly, as a C</li> <li>Zaheo</li> </ol>	Concept Artist. D d, R. (2018). Spie	: Big Bad World of Concept Art for Video Game esign Studio Press. der-Man, Into the Spider-Verse: The Art of the art of Tangled. Chronicle Books.			

How To Sketch Landscapes: Tutorial Drawing For Concept Art: TUTORIAL GUIDE From Beginner to Advanced

CO1	Ability to ideate and translate abstract concepts into visually compelling and coherent art pieces.	K1
CO2	Proficiency in using various tools, software, and techniques essential for creating concept art, both traditional and digital.	K3&K6
CO3	Capability to work across diverse styles, genres, and project requirements, showcasing adaptability and versatility in artistic expression.	K4
CO4	Skill in critically evaluating and iterating on concept art through feedback, resulting in refined and improved final pieces.	K5
CO5	Creation of a comprehensive portfolio demonstrating a range of concept art pieces showcasing individual growth, style, and skill set.	K2&K6

**Course Outcome VS Programme Outcomes** 

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	L(1)	M(2)	S(3)	M(2)	L(1)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	1.8	2.2	2.2	2

### Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	S(3)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	L(1)
W.AV	2.4	2.6	2.6	2.2	2.2

	-	V-Semester -Elective I	-	1	1
Elective 1	Course Code: 83553B	Elective I - 2.Matte Painting	T	Credits: 4	Hours:4
Objectiv e	<ul> <li>integrati</li> <li>2. Contribucomplem</li> <li>3. Expanding</li> <li>3. Expanding</li> <li>4. Save time construct</li> <li>5. Ensure and</li> </ul>	the illusion of authentic, believable landscap on of painted elements. It to the mood and tone of a scene by adding nent the storytelling and cinematic experience the scope of a film or project by painting exter g a broader and more immersive visual exper e and resources by digitally painting intricate ting elaborate physical sets or traveling to var seamless blend between live-action footage a cohesive and natural-looking visual narrati	visual nsions ience. details ious lo and pai	elements that to physical s s instead of ocations.	t eets,
Unit I	Introduction to evolution in the VFX)-Understar Introduction to and other releva	Matte Painting-Overview of Matte Painti film and entertainment industryRole of Ma nding its significance in creating realistic an Industry Tools: Familiarization with softwa nt tools for matte painting.	ng: De tte Pain nd fant re such	nting in Visu astical enviro as Adobe F	al Effects onments Photoshop
Unit II	in the context blending photo Workflow: Esta paintings.	Basics: Understanding brush techniques, co of matte painting-Photo Manipulation: Tec graphic elements seamlessly into a digi blishing an effective workflow for planning,	hnique tal pa sketchi	s for integra inting-Matte ng, and refin	ating and Painting ing matte
Unit III	concepts-Storyte storytelling and	Environments: Techniques for brainstormin elling through Environments: Creating m contribute to the overall narrative-Design as perspective, scale, and lighting to	atte pa Princip	intings that bles: Applyin	enhance ng design
Unit IV	realism-Digital various digita	Introduction to integrating 3D elements into Matte Creation: Creating entirely digital env l painting techniques-Atmospheric Eff tmospheric elements such as fog, haze, and de	ronme fects:	nts from scra Understand	atch using
Unit V	Industry Standa matte painting- from the indus showcasing a 1	rds and Trends: Keeping up with the latest to Case Studies: Analyzing and deconstructing try-Portfolio Development: Building a stro- range of skills and styles-Professional Pra g within a production pipeline, and coll	ols, tec g succe ng ma ctices:	hniques, and essful matte tte painting Understandi	paintings portfolio ing client
Reference	and Text Books	:			
<ol> <li>Matt</li> <li>Kurc Med</li> <li>Cair</li> <li>ELE mult</li> </ol>	tingly, D. B. (201 pp, N. (2003). Sta ia & Education M a, A. (2021). Eva CTIVE, I., & PA iple images-layer otal. com (Firm).	1). The digital matte painting handbook. John te of the Art: Matte Painters-a Secret World of fagazine, (136), 154-157. luation of the effects of four consolidants on a INTING, M. Matte paintings-use image editi masking-the clone stamp tool. (2009). Digital Painting Techniques (Vol. 1)	of Illusi natte p ng soft	on. Metro M aint and thei ware to comp	r ageing.
How to Ma How to Ma BEGINNE	ake #Matte_Paint ake Matte Paintin R'S GUIDE to M	ing Manipulation In Photoshop cc [PART - 0 g #Manipulation In Photoshop cc [PART - 02 atte Painting in Photoshop!			
Unant Buff	aio-photoshop M	anipulation Speed Art Tutorial			

CO1	Graduates showcase mastery in digital brushwork, blending, and scene creation for diverse visual narratives.	K1
CO2	Students produce compelling matte paintings, seamlessly integrating with live-action footage for enhanced storytelling in film and media.	K3&K6
CO3	Successful participants demonstrate the ability to craft imaginative and realistic landscapes, from futuristic cityscapes to ancient realms.	K4
CO4	Graduates exhibit expertise in matte painting techniques, transporting audiences seamlessly through historical eras with precision and artistry.	
CO5	Completion of the module equips individuals with the skills to contribute to film, gaming, and visual effects productions, showcasing professional-grade matte painting portfolios.	

**Course Outcome VS Programme Outcomes** 

CO	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)
CO3	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	L(1)
CO4	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	S(3)
CO5	M(2)	S(3)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	2.4	2

### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	L(1)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	S(3)	S(3)	S(3)	M(2)	M(2)
CO4	M(2)	M(2)	M(2)	S(3)	S(3)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2.2	2

	Course Code: 83553C	Elective I - 3.Visual Storytelling for Film and Games	Т	Credits: 4	Hours:4
Objective	film and 2. Apply civisual na 3. Analyze and emo 4. Demons for plant 5. Collabor	an understanding of narrative structures and vi gaming mediums. nematographic principles and framing techniqu rratives for film and game environments. the impact of lighting, color grading, and visua tional engagement in film and gaming contexts trate proficiency in storyboarding and previsual sing and conveying visual narratives effectively ate within a team setting, integrating visual sto the to cohesive storytelling in film and game dev	ies to il eler lizatic 7. rytelli	create comp nents on stor on technique	elling rytelling s essential s to
Unit I	Understanding application in fi storytelling, ind	Narrative Structure: Introduction to the the lm and game storytelling-Visual Language: Ex- cluding shot composition, camera angles, a aniques for creating effective storyboards to v	nree-a plorir Ind fi	ct structure ng the basics caming-Story	and its of visual boarding
Unit II	storytelling-Vist memorable cha	etypes: Exploring common character archer al Character Design: Techniques for creatin arcters-Character Arcs: Understanding the d growth in the narrative.	g vis	ually compe	lling and
Unit III	World Creation setting, culture, narrative eleme	: Developing the visual language of the na and history-Environmental Storytelling: Usin its and enhance the overall storytelling exper storytelling principles to the design of game le	ig env ience	vironments t -Game Leve	to convey l Design:
Unit IV	Cinematic Tech shots, dolly shot to evoke emot	niques: Advanced exploration of camera tech s, and aerial shots-Dynamic Camera Movemen ion and guide the audience's attention-Gam ples to game cutscenes and interactive storytell	nnique it: Usi me C	es, including ng camera n	g tracking novement
	Collaboration in production and the synergy be experiences-Fin	a Production: Understanding the collaborative the roles of various team members-Audio-Vis etween visual storytelling and sound designal al Project: Applying all learned concepts to short film sequence or a game narrative.	e natu sual I gn in	ntegration: 1 creating in	Exploring mmersive
Reference a 1. Sandl Mich 2. Block 3. Brine and T 4. Lanca Routl 5. Robo	and Text Books ler, M. (2018). <i>V</i> ael Wiese Produ c, B. (2008). The c, K. G. (2020). <i>T</i> <i>Transitions</i> . Oxfo aster, K. (2019). ledge. tham, T. (2021). <i>natographers</i> . CI	<i>isual storytelling: how to speak to your audient</i> ctions. visual story: Creating the visual structure of fi <i>The Art of Cinematic Storytelling: A Visual Guid</i> rd University Press. <i>Basic Cinematography: A Creative Guide to V</i> <i>Cinematic storytelling: A comprehensive guide</i>	lm. T de to isual	V and Digita Planning Sh Storytelling.	ll Media. ots, Cuts,
Visual Story Storytelling	ytelling in Filmn in Video Games		ercise	<u>25</u>	

CO1	Students can demonstrate a comprehensive understanding of various visual storytelling techniques applicable to both film and game development contexts.	K1
CO2	Ability to apply cinematographic principles such as camera angles, framing, and movement to create engaging visual narratives in film and game environments.	K3&K6
CO3	Capability to design and develop characters and environments that effectively contribute to narrative storytelling, eliciting emotional engagement from the audience or player.	K4
CO4	Proficiency in creating storyboards and using previsualization techniques to plan and communicate visual narratives effectively for film and game projects.	K5
CO5	Capacity to critically analyze and evaluate successful visual storytelling examples in films and games, extracting techniques and strategies for their application in personal or collaborative projects.	K2&K6

PO1	PO2	PO3	PO4	PO5	PO6	PO7	<b>PO8</b>	PO9	PO10
S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)
S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
M(2)	S(3)	S(3)	L(1)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)
L(1)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)
M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
2.2	2.6	2.4	1.8	2.2	2	2.2	2.4	2.4	2
-	S(3)           S(3)           M(2)           L(1)           M(2)	S(3)       S(3)         S(3)       M(2)         M(2)       S(3)         L(1)       M(2)         M(2)       S(3)         2.2       2.6	S(3)         S(3)         M(2)           S(3)         M(2)         M(2)           M(2)         S(3)         S(3)           L(1)         M(2)         M(2)           M(2)         S(3)         S(3)           M(2)         S(3)         S(3)	S(3)       S(3)       M(2)       L(1)         S(3)       M(2)       M(2)       M(2)         M(2)       S(3)       S(3)       L(1)         M(2)       S(3)       S(3)       L(1)         L(1)       M(2)       M(2)       S(3)         M(2)       S(3)       S(3)       M(2)         2.2       2.6       2.4       1.8	S(3)       S(3)       M(2)       L(1)       M(2)         S(3)       M(2)       M(2)       M(2)       S(3)         M(2)       S(3)       S(3)       L(1)       M(2)         L(1)       M(2)       M(2)       S(3)       L(1)       M(2)         L(1)       M(2)       M(2)       S(3)       M(2)       M(2)         M(2)       S(3)       S(3)       M(2)       M(2)         M(2)       S(3)       S(3)       M(2)       M(2)         2.2       2.6       2.4       1.8       2.2	S(3)         S(3)         M(2)         L(1)         M(2)         M(2)           S(3)         M(2)         M(2)         M(2)         S(3)         S(3)           M(2)         S(3)         M(2)         M(2)         S(3)         S(3)           M(2)         S(3)         S(3)         L(1)         M(2)         M(2)           L(1)         M(2)         M(2)         S(3)         M(2)         L(1)           M(2)         S(3)         S(3)         M(2)         S(3)         L(1)           M(2)         S(3)         S(3)         M(2)         M(2)         L(1)           M(2)         S(3)         S(3)         M(2)         M(2)         L(1)           M(2)         S(3)         S(3)         M(2)         M(2)         M(2)           2.2         2.6         2.4         1.8         2.2         2	S(3)       S(3)       M(2)       L(1)       M(2)       M(2)       M(2)         S(3)       M(2)       M(2)       M(2)       S(3)       S(3)       M(2)         S(3)       M(2)       M(2)       M(2)       S(3)       S(3)       M(2)         M(2)       S(3)       S(3)       L(1)       M(2)       M(2)       S(3)         L(1)       M(2)       M(2)       S(3)       M(2)       L(1)       M(2)         M(2)       S(3)       S(3)       M(2)       M(2)       L(1)       M(2)         M(2)       S(3)       S(3)       M(2)       M(2)       M(2)       M(2)         2.2       2.6       2.4       1.8       2.2       2	S(3)       S(3)       M(2)       L(1)       M(2)       M(2)       M(2)       S(3)         S(3)       M(2)       M(2)       M(2)       S(3)       S(3)       M(2)       M(2)         S(3)       M(2)       M(2)       M(2)       S(3)       S(3)       M(2)       M(2)         M(2)       S(3)       S(3)       L(1)       M(2)       M(2)       S(3)       S(3)         L(1)       M(2)       M(2)       S(3)       L(1)       M(2)       M(2)       M(2)         M(2)       S(3)       S(3)       L(1)       M(2)       L(1)       M(2)       M(2)         M(2)       S(3)       S(3)       M(2)       M(2)       M(2)       M(2)       M(2)         2.2       2.6       2.4	S(3)         S(3)         M(2)         L(1)         M(2)         M(2)         M(2)         S(3)         M(2)           S(3)         M(2)         M(2)         M(2)         S(3)         S(3)         M(2)         S(3)         M(2)           S(3)         M(2)         M(2)         S(3)         S(3)         M(2)         M(2)         S(3)           M(2)         S(3)         S(3)         L(1)         M(2)         M(2)         S(3)         M(2)           L(1)         M(2)         S(3)         L(1)         M(2)         M(2)         S(3)         M(2)           L(1)         M(2)         M(2)         S(3)         M(2)         L(1)         M(2)         M(2)         M(2)           M(2)         S(3)         S(3)         M(2)         M(2)         M(2)         M(2)         M(2)           M(2)         S(3)         S(3)         M(2)         M(2)         M(2)         M(2)         S(3)           M(2)         S(3)         S(3)         M(2)         M(2)         M(2)         M(2)         S(3)           M(2)         S(3)         S(3)         M(2)         M(2)         M(2)         S(3)         S(3)           2.2

S-Strong (3), M-Medium (2), L-Low (1)

### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)
CO3	M(2)	S(3)	L(1)	M(2)	M(2)
CO4	S(3)	M(2)	S(3)	S(3)	L(1)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	1.8	2.2	2

Elective II	Course Code: 83554A	V-Semester -Elective II Elective II - 1. Advanced Modeling And Texturing	Т	Credits: 4	Hours:4
Objective	<ul> <li>complex</li> <li>2. Explore visual re</li> <li>3. Acquire texture a</li> <li>4. Dive interphotorea scenes.</li> <li>5. Explore</li> </ul>	advanced skills in polygonal modeling, focusi ity to create intricate and realistic 3D objects. sophisticated texture mapping methods and tea alism of 3D models, emphasizing attention to proficiency in UV mapping strategies to ensur pplication, maximizing the visual impact of 31 o advanced rendering techniques and lighting s listic results, emphasizing the importance of re- the power of procedural texturing algorithms t letails to 3D models, enhancing texture variety	chniqu detail re effic D mod strateg ealistic o add	es to enhance and artistic e vient and seat els. ies to achieve illumination dynamic and	e the expression mless e n for 3D
Unit I	basic shape – U option – using faces tool – cor	c character – Add reference image – Refer sing extrude – Creating a new layer – using sp Merge Edges option – using the subdivide pr vert subdivision surfaces to polygon – Smoo edge tool – final model corrections.	olit po roxy c	lygon tool – ption – usir	Combine ig the cut
Unit II	UV texture edi Cylindrical Mar UVs – Split UV	or window – Planar mapping – Auto mapp ping - Cut UV Edges – Move and Sew UV E s – Align UVs – Check UV overlay's – Flip V – Aligning UV's – Layout UV's – UV sna	dges – UV's -	- Unfold UV - Rotate sele	s – Relax cted UVs
Unit III	3D Application Anisotropic - Pl Texturing map	hypershade material – Different types of ut ong – Ponge E – Ramp shader – Surface sha - 3d Texturing map – Common Material Attri Specular shading – Bump mapping	der –	Use Backgro	ound – 2d
Unit IV	Image resolutio	nt frame – Rendering IPR render –Rendering ns setting – Keeping images in Render view of channel – Snapshot – Choosing Rendering of Outputs	– Frar	ne region re	ndering –
Unit V	Objects – Sculp Sculpt Layers – Importing Stend Texture – Map – Generate final	Concepts – Interface Overview – Understan ting a Wooden Log – Creating a Layer and Su Sculpting Details – The Paint Tools – Paint il Image – Manipulating Stencil Image – Ste Creations – Generate Normal Map – Displacer Output using 3D application	ibdivio Layers encil I	ling – UV M s – Creating Projections –	1apping – Stencil – - Painting
<ol> <li>Ebert</li> <li>Van</li> <li>from</li> <li>589-6</li> <li>Ingra</li> <li>Mudł</li> <li>Pascu</li> <li>Adva</li> </ol>	Houtte, P., Li, S the Taylor mode 524. ssia, M. (2008) pox. CRC Press. a, N. E., & Dob nced Materials F	exturing & modeling: a procedural approach. I ., Seefeldt, M., & Delannay, L. (2005). Defe el to the advanced Lamel model. International Maya for games: modeling and texturing rescu, T. (2012). Modeling, texturing and la tesearch, 423, 116-127.	ormati journ techni ighting	on texture p al of plastici ques with M g in cad app	rediction: ity, 21(3), Maya and plications.
Adva 5. Benn	nced Materials I	Lesearch, 423, 116-127. L. (2001). Modeling laser texturing of silica			

Exporting Tex Car Modeling	Irces eling Workflow   Autodesk Maya + Substance 3D Painter atures From Substance 3D Painter to Maya Arnold in Maya (JEEP)   Texturing in Substance Painter   Metal Slug Jeep 3d modeling timelapse with Maya and Substance	
CO1	Graduates showcase proficiency in advanced polygonal modeling techniques, demonstrating the ability to create intricate and realistic 3D objects with precision.	K1
CO2	Successful participants exhibit expertise in advanced texture mapping methods, emphasizing artistic expression and achieving a higher level of realism in textured 3D models.	K3&K6
CO3	Graduates demonstrate mastery in advanced UV mapping strategies, ensuring optimal texture placement for seamless and efficient results in their 3D models.	K4
CO4	Individuals showcase the ability to apply advanced rendering techniques, including realistic lighting setups and material properties, resulting in photorealistic visualizations of 3D scenes.	K5
CO5	Successful completion of the module equips participants with the skills to implement procedural texturing algorithms, allowing them to dynamically generate realistic surface details and enhance the versatility of textures in 3D models.	K2&K6

**Course Outcome VS Programme Outcomes** 

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)						
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	2	2

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.6	2.2	2.4

Course Cod	1	V-Semester -Elective II	- 1		1				
Elective II	DSE 2	Elective II - 2. VR and AR Modeling	Т	Credits: 4	Hours:4				
Objective	technolo experier 2. Develop optimize interacti	proficiency in using specialized software too ed for VR and AR environments, considering	deling s for c perforn	for immersiv reating 3D n nance and us	ve nodels ser				
Ū	<ul> <li>immersive 3D models tailored for VR and AR platforms.</li> <li>4. Explore techniques for incorporating interactive elements and user interf within 3D models to enhance user engagement and navigation in VR and experiences.</li> <li>5. Demonstrate the ability to optimize 3D models for real-time rendering, c</li> </ul>								
		ance requirements essential for seamless VR a							
Unit I	applications-Ev AR technologie	the differences between virtual reality and olution and Trends: Exploring the history ar s-Industry Tools: Introduction to software an modeling, such as Unity or Unreal Engine.	d curr	ent trends in	n VR and				
Unit II	geometry for importance of c Texturing: Tec experiences.	Iodeling: Introduction to polygonal modeling virtual environments-Optimization Techr efficient models for real-time rendering in VI nniques for creating and applying textures to	iques: R and D 3D r	Understan AR-UV Map nodels for in	ding the oping and mmersive				
Unit III	environments-H gestures in cre	n Principles: Exploring how users interact land Tracking and Gestures: Understanding t ating intuitive interactions-UI/UX Design interfaces that enhance the overall user	ne role for Im	of hand trac mersive Exp	cking and periences:				
Unit IV	Rigging Basics Animation Prir virtual and aug	: Introduction to rigging techniques for characterial control of the second sec	eate l	ifelike move	ements in				
Unit V	sculpting, pro Understanding projects.Final I	eling Techniques: Exploring advanced 3D n cedural generation, and photogrammetry. the importance of spatial audio and integ Project: Applying all learned concepts to de deling, interaction design, animation, and adva	Spatial rating velop	Audio In it into VR a VR or AF	tegration: and AR				
<ol> <li>Jerald</li> <li>Parisition</li> <li>for de</li> <li>Schmitten</li> </ol>	i, T. (2015). Lea esktop, web, and	: VR book: Human-centered design for virtual urning virtual reality: Developing immersive mobile. " O'Reilly Media, Inc.". Hollerer, T. (2016). Augmented reality: princ	experie	ences and ap	plications				
and h	uman factors fo	6). Practical augmented reality: A guide to th r AR and VR. Addison-Wesley Professional. tual reality and the built environment. Routled		nologies, app	olications,				
Online Res									
		esome   My Virtual Reality 3D Modelling Wo periences with 3ds Max and EnvisionVR	<u>rkflow</u>	<u>′.</u>					
<b>a</b> . <b>a</b>									

CO1	Demonstrating a high level of proficiency in using specialized software and tools for creating optimized 3D models for VR and AR environments.	K1
CO2	Applying spatial design principles effectively to create immersive and realistic environments tailored for VR and AR experiences.	K3&K6
CO3	Ability to optimize 3D models for real-time rendering, ensuring smooth performance and interaction within VR and AR applications.	K4
CO4	Developing 3D models with interactive elements and intuitive user interfaces that enhance user engagement and navigation within VR and AR environments.	K5
CO5	Demonstrating adaptability in handling challenges specific to VR/AR modeling and employing critical thinking to solve complex design and performance-related issues in these immersive mediums.	K2&K6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	1.8	2

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	L(1)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	S(3)	M(2)	S(3)	M(2)	M(2)
CO4	M(2)	S(3)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2	2.6	2.2	2.4

Elective	<b>Course Code:</b>	V-Semester -Elective II							
II	83554C	Elective II - 3. Digital Sculpting and Texturing Techniques	Т	Credits: 4					
Objectiv e	detailed 2. Gain a d ensuring 3. Explore seamless textures. 4. Learn ac emphasi	proficiency in utilizing digital sculpting softwa and expressive 3D sculptures. eep understanding of anatomy and form to enha accuracy and realism in character and object n and master advanced texture painting methods, ly with digital sculpting workflows to add intri- vanced rendering techniques to achieve realisti- zing the interaction of light and texture in digital skills in optimizing LIV mapping for digital scu	ance c nodeli integ cate c c surf al scu	ligital sculpt ng. rating them letails and su face appearat lptures.	ing skills urface nces,				
	5. Acquire skills in optimizing UV mapping for digital sculptures, ensuring efficient texture placement and allowing for detailed and realistic texturing.								
Unit I	Understanding t Sculpting Softv ZBrush or Mud	he role of digital sculpting in 3D modeling and are- Familiarization with industry-standard s box-Basic Sculpting Tools and Techniques: Ex niques, and navigation within the software.	d anin sculpt	nation-Introc	e such as				
Unit II	Anatomy Studi foundation for o 3D sculptures	es- Conducting studies of human and creatunes- haracter design-Concept Art Integration: Tran emphasizing creativity and artistic in chniques for adding intricate details and refin	slatin terpre	g 2D conceptation-Detai	ot art into ling and				
Unit III	UV Mapping Fu for texturing-Te textures directl	Indamentals: Understanding the basics of UV a xture Painting Techniques: Exploring various y onto 3D models-Procedural Texturing: I ds for efficient and realistic texture creation.	meth	ods for hand	l-painting				
Unit IV	PBR Workflow achieving realis digital sculpture	PBR Workflow: Understanding the principles of PBR materials and their role in achieving realistic rendering-Material Creation: Creating and applying PBR materials to digital sculptures to enhance realism and visual fidelity-Shader Integration: Implementing shaders to achieve specific material effects and enhance the overall visual quality.							
Unit V	topology and m sculptures with	ting Techniques: Exploring advanced sculpting ulti-resolution sculpting-Substance Painter Wo Substance Painter for enhanced texturing opment: Building a strong portfolio showe extured models.	orkflo and	w: Integrati material re	ng digital finement-				
Reference	and Text Books								
techi 2. Raitt 3. Fran repre 4. Perry In Pr	niques for artists. t, B., & Minter, G k, F., Unver, E., d esentation: Nevill y, R. N., & Friske roceedings of the	ngeon, B. (2012). Digital sculpting with Mudbe CRC Press. . (2000). Digital sculpture techniques. Interacti & Benincasa-Sharman, C. (2017). Digital sculp e tomb case study. Digital Creativity, 28(2), 12 n, S. F. (2001, August). Kizamu: A system for 28th annual conference on Computer graphics	vity N ting fo 3-140 sculp	Magazine, 4( or historical ). ting digital c	5). characters				
5. Greu musi		T., Bolas, N., & McDowall, I. E. (1996, April) ring techniques. In Stereoscopic Displays and 15). SPIE.							
Online Re	sources								
		ulpt   EASY In Blender Blender - Simple Method by a Pro Sculptor							
		upse - 'Dragon' Concept							
		al   Turning 2D Concepts into 3D Characters							

CO1	Graduates showcase proficiency in using digital sculpting tools, demonstrating the ability to create detailed and expressive 3D sculptures.	K1
CO2	Successful participants exhibit a deep understanding of anatomy and form, showcasing accurate and realistic modeling skills in both characters and objects.	K3&K6
CO3	Graduates demonstrate mastery in advanced texture painting techniques, integrating them seamlessly with digital sculpting workflows to add intricate details and surface textures.	
CO4	Individuals showcase the ability to apply advanced rendering techniques, creating realistic surface appearances and emphasizing the interaction of light and texture in digital sculptures.	
CO5	Successful completion of the module equips participants with the skills to optimize UV mapping for digital sculptures, ensuring efficient texture placement and allowing for detailed and realistic texturing.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)						
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	2.4	2

S-Strong (3), M-Medium (2), L-Low (1)

### Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	S(3)	S(3)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	S(3)
CO4	S(3)	M(2)	M(2)	L(1)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2	2.4

Elective III	Course 83555A			I - 1. Riggin	<u>-Elective I</u> 1g and Ani		Р	Credits: 4	Hours:4
Objectiv e	2. 3. 4. 5.	capable Apply p and mo Demon easing t Employ and add Develop	nent advance of supportin principles of ovement of 31 strate profici to create lifel y constraints 1 precision to p skills in ch emotions an	ng complex of weight pain D models du iency in key like movement and controll the movem aracter position	character n ting and sk uring anima frame anim ent in chara lers effectiv lent of rigs ng, facial e	iovements in inning to ensi- tion. ation, utilizi- cters and ob- rely to stream and models. xpressions, a	3D a sure re ng tin jects. nline a	nimation. ealistic defor ning, spacing animation w	mation g, and orkflows
<ul> <li>syster</li> <li>2. Weig skinn</li> <li>3. Keyf on tir anima</li> <li>4. Cons rig be</li> <li>5. Facia master</li> <li>6. Char dynar</li> <li>7. Riggion rig</li> <li>8. Physic cloth</li> <li>9. Lip S</li> </ul>	ms and s ing met rame A ning, sp ation. traint I chavior, al Riggi ering exj ements. racter P mic gest ing Opt g comple ics-base , hair, an	spline-b ting an hods to nimatic acing, a automa ng and pressive osing a ures ess imizati exity, re ed Anin nd secor d Dialo	Techniques: based deform d Skinning i achieve reali- on Fundame and easing to entation and the repetitive Expression e animation to sential for co on and Perfe- esource mana- nation Integ- ndary motion gue Animati	ations, for v Mastery: U istic deforme entals: Grass bring life and d Controller tasks, and en Animation: o convey en Animation: nveying per formance: Congement, and ration: Intension: Unders	ersatile cha inderstandin ation and n ping the pri- nd realism rs: Utilizin nhance pre- Exploring notions and Developin sonality an Dptimizing d real-time grating phy aracter anin tanding the	and apply novement of nciples of ke to character f g constraints cision in cha techniques f storytelling g skills in po d narrative in rigs for effic playback. vsics simulations. nuances of	ment ing w chara eyfran mover and c racter for fac throu osing n anin ient p ions fe	and control. eight paintin cters during ne animation ment and obj controllers to animation v cial rigging a gh character characters an nations. erformance, or dynamic e	ng and animation h, focusing ect o manage workflows. and facial nd creating focusing effects like
10. <b>Proje</b> creati	ect-base	d Riggi	s to dialogue ing and Ani and animate	mation: Ap	plying lear	ned techniqu	es thr		

Outcome	<ol> <li>Students demonstrate an advanced understanding and application of rigging principles, creating complex and functional rig structures for various character types.</li> <li>Students exhibit proficiency in keyframe animation techniques, effectively conveying lifelike movements, emotions, and storytelling through character animation.</li> <li>Ability to apply weight painting, skinning, and deformation methods proficiently, resulting in realistic and smooth character movement during animation.</li> <li>Students can use constraints and controllers efficiently, enhancing precision and control over character rigs and animation workflows.</li> <li>Capability to create dynamic and expressive character performances, including gestures, facial expressions, and nuanced movements, conveying emotions and narrative effectively.</li> </ol>
<ol> <li>Raju, P.</li> <li>Jones, S. Max. Ta</li> <li>Allen, F. &amp; Sons.</li> <li>O'Haile</li> <li>Hardin,</li> </ol>	<ul> <li>ad Text Books:</li> <li>(2019). Character Rigging and Advanced Animation. Apress.</li> <li>(2012). Digital Creature Rigging: The Art and Science of CG Creature Setup in 3ds aylor &amp; Francis.</li> <li>a., &amp; Murdock, K. L. (2011). Body language: advanced 3D character rigging. John Wiley, T. (2018). Rig it right! Maya animation rigging concepts. Routledge.</li> <li>S., &amp; Gorden, J. (2004). LightWave 3D 8 Cartoon Character Creation: Rigging and ton (Vol. 2). Jones &amp; Bartlett Publishers.</li> </ul>
Simple Riggi	urces imation Rigging: Evolving the Animation Pipeline ng In Blender UICK Character Rigging in Blender - Blender Basics Tutorial

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)
CO3	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	L(1)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	1.8	2.4	2

S-Strong (3), M-Medium (2), L-Low (1)

### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	L(1)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.6	2	2.4

III	Course Code: 83555B	Elective III - 2.Lighting and Rendering- Practical	р	Credits: 4	Hours:4
Objective	<ul> <li>includ</li> <li>2. Gain mode</li> <li>3. Under globa rende</li> <li>4. Learn camer choice</li> <li>5. Explor color</li> </ul>	practical approaches to scene composition and ra placement, framing, and storytelling through l es. ore post-processing techniques for enhancing ren correction, depth of field, and other image adjust	oint li als an eractic gs, inc fficien cinem lightin	ghts. d shaders to ons with ligh cluding ray to nt and high-c atography, i g and render images, incl	3D t. racing, quality ncluding ring uding
1 Intro		l effects. hting Principles: Overview of fundamental light	nting r	rinciples in	cluding
<ul> <li>applie</li> <li>3. Direction</li> <li>applie</li> <li>4. Realition</li> <li>4. Realition</li> <li>applie</li> <li>5. Advation</li> <li>6. Optimical</li> </ul>	cation of ambie etional and Poi eation of directi stic Material a ials and shader es. nced Renderin ling ray tracing mization Techn ring processes	on of Ambient Lighting: Hands-on exercises for nt lighting to create a base level of illumination int Lights in Practice: Practical demonstrations ional and point lights to achieve specific lighting and Shader Application: In-depth exploration of is to 3D models, emphasizing surface properties ng Settings: Practical sessions covering advance g, global illumination, and other settings for achi niques for Efficient Rendering: Techniques an to achieve efficiency without compromising the and Cinematography: Practical exercises on s	within and e g effec of app and ir ed rend eving d strat qualit	a 3D scenes. xercises investigation ts and mood lying realisting theractions we dering setting high-quality tegies for op by of the fina	olving the s. c rith light gs, renders.

	<ol> <li>Graduates demonstrate proficiency in practical lighting techniques, showcasing the ability to effectively use different light</li> <li>Successful participants exhibit mastery in applying realistic materials and shaders to 3D models, creating surfaces that interact authentically with lighting conditions.</li> </ol>
Outcome	3. Ensuring efficient and high-quality renders while understanding the impact of advanced rendering settings.
Outcome	<ul> <li>4. Individuals demonstrate mastery in scene composition and cinematography, employing practical skills to create visually compelling and well-balanced 3D scenes.</li> </ul>
	<ol> <li>Successful completion of the module equips participants with the skills to enhance rendered images through post-processing techniques, achieving desired visual effects and refinements.</li> </ol>
	nd Text Books:
	on, N. (2012). Realistic Lighting in Autodesk Maya with Mental Ray Area Light. hley, M. (2010). Maya Studio Projects: Game Environments and Props. John Wiley &
Sons.	ney, w. (2010). Waya Studio Projects. Game Environments and Props. John Whey &
	, B. (2008). MENTAL RAY, FOR MAYA, 3DS MAX, AND XSI: A 3D ARTIST'S E TO RENDERING (With CD). John Wiley & Sons.
	Watkins, A., Arevalo, K., & Tovar, M. (2021). Creating Games with Unity, Substance
Dainte	r, & Maya: Models, Textures, Animation, & Code. CRC Press.

 Online Resources

 Arnold Lighting Tutorial in Maya 2022 | Maya Lighting Tutorial

 Lighting Interior Day Light using Arnold Renderer in Autodesk Maya

 V-Ray in Maya: Lighting and Rendering Your 3D Models

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	L(1)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	1.8	2.2	2	2.2	2.2	2.4	2

**Course Outcome VS Programme Outcomes** 

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	L(1)	S(3)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	M(2)	S(3)	M(2)
CO4	S(3)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2	2.4	2.4

		V-Semester -Elective III			
Elective III	Course Code: 83555C	Elective III - 3.Compositing Techniques-Practical	Р	Credits: 4	Hours:4
seam 2. Gree extra	2. I m c 3. M a 4. U e 5. I m anced Layer Con lessly, such as C en Screen and M ction methods to	Apply advanced compositing methods to sean uch as CGI, live-action footage, and visual ef- output. Demonstrate proficiency in using industry-sta- nanipulate and enhance images, ensuring con composite. Master color grading and correction technique nd establish mood or atmosphere within com Utilize masking, rotoscoping, and tracking tech- lements and create intricate composite seque Develop skills in refining and optimizing com- neet professional standards and project require <b>mpositing:</b> Mastering layering techniques to GI, live-action footage, and effects, for a unif <b>latte Extraction:</b> Learning precise green screa- isolate and integrate subjects into various ba	ffects, f ndard s sistency es to acl posited hniques nces. posites ements combir fied sce een key ckgrou	or a cohesive oftware tools y and realism nieve visual of scenes. s effectively , ensuring fir ne multiple el ne. ing and matte	e final s to n in the coherence to isolate nal output lements e ly.
<ul> <li>exploit</li> <li>4. Coloring</li> <li>5. Rotoring</li> <li>eleming</li> <li>6. Traceileming</li> <li>7. Deptrofield</li> <li>8. Refinantiation</li> <li>9. Motimensum</li> <li>10. Projetical</li> </ul>	osions, fire, or pa r Grading and ( ils, enhance mood scoping and Ma ents and create d king and Match ents seamlessly i th and Parallax i pth and perspect nement and Opt licts, and optimizi on Graphics Inte ring seamless into ect-based Comp	ration: Understanding the integration of visual rticle simulations into live-action footage for Correction: Applying color grading and correct d, and ensure consistency across composited asking Techniques: Mastering rotoscoping an etailed, complex composites. <b>Innoving:</b> Utilizing tracking and matchmoving nto live-action footage, maintaining realistic in Compositing: Exploring depth and paralla ive in composite scenes for added realism. <b>imizing Composites:</b> Techniques for refinin- ng outputs to meet industry standards and pro- tegration: Integrating motion graphics eleme eraction and integration with live-action foota ositing: Applying learned techniques to prac- recomposites showcasing mastery in composi-	realisti ection t elemen nd masl g tools movem ax techr g comp oject rea nts with age. tical pro	c composites echniques to ts. king to isolat to integrate ( ent and persp iques to creation osites, remove quirements. hin composit	s. unify e specific CGI pective. tte a sense ving es, ng
Outcome	3. 4.	Demonstrating proficiency in using industr to create complex and seamless composites Ability to effectively integrate various elem live-action footage, and motion graphics int compelling composites. Skillfully applying color grading and correc- visual consistency, enhance mood, and creat composite scenes. Proficiency in using masking and rotoscopin elements accurately and create detailed com Ability to refine and optimize composites to ensuring high-quality final outputs that meet client expectations.	involvi ents lik o cohes ction te te a coh ng tech posites o meet i	ng multiple of e CGI, visua sive and visua chniques to a herent look ad niques to iso n	elements. 1 effects, ally achieve cross late dards,

- 1. Brinkmann, R. (2008). The art and science of digital compositing: Techniques for visual effects, animation and motion graphics. Morgan Kaufmann.
- 2. Wright, S. (2013). Digital compositing for film and video. Taylor & Francis.
- 3. Lanier, L. (2009). Professional digital compositing: essential tools and techniques. John Wiley & Sons.
- 4. Lanier, L. (2017). Advanced Visual Effects Compositing: Techniques for Working with Problematic Footage. Taylor & Francis.

#### **Online Resources**

<u>Cinematic Compositing Techniques In Blender — Tutorial</u> <u>7 Rules of Cinematic Framing and Composition</u> <u>Top 5 Tips: Improve your VFX compositing</u> BACK TO THE FUTURE "Compositing Techniques" | Shanks FX | PBS Digital Studios

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

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

#### **Mapping Course Outcome VS Programme Specific Outcomes**

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	S(3)	S(3)	M(2)	S(3)
CO3	M(2)	M(2)	M(2)	M(2)	M(2)
CO4	M(2)	M(2)	L(1)	S(3)	M(2)
CO5	S(3)	M(2)	M(2)	M(2)	S(3)
W.AV	2.2	2.2	2	2.2	2.4

Core		V-Semester -Core			
	Course Code: 83556	Motion Graphics - Practical	Р	Credits: 4	Hours:8
Objectiv e	<ol> <li>Gain pro</li> <li>Develop design.</li> <li>Learn v motion g</li> <li>Explore designs.</li> </ol>	pficiency in industry-standard software for creater skills in conceptualizing and storyboarding for arious animation techniques and their applicater applies. The integration of visual effects to enhance the carned principles and techniques through hand	for effect tion in e impac	tive motion creating com t of motion	graphic npelling graphic
show	polished Sequence Crea , incorporating a	motion graphic pieces. tion: Design an engaging title sequence for a nimated text, graphics, and effects.	hypoth	etical film of	r TV
using 3. Infog comp	motion graphics raphic Animation lex information	evelop a dynamic animation that brings a com s techniques. ion: Create an animated infographic that visu using motion graphics elements. n: Animate a character or mascot using motio	alizes s	tatistical data	a or
move 5. <b>Musi</b> the rh	ment, expression c Video Segmen ythm and mood	ns, and storytelling. nt: Design a short segment for a music video,	synchr	onizing visu	als with
conce	pt, product, or s	ervice using motion graphics.			
segm	dcast Graphics ent, including lo	<b>Package:</b> Create a set of cohesive graphics f wer thirds, transitions, and on-screen element	s.		
segm 8. Inter mobil 9. Socia like I 10. Title	dcast Graphics ent, including lo active Motion ( e applications, c l Media Ad: Pro- nstagram, TikTo Animations for	<b>Package:</b> Create a set of cohesive graphics f wer thirds, transitions, and on-screen element <b>Graphics:</b> Design interactive elements using considering user interaction and engagement. oduce a short, attention-grabbing motion grap	rs. motion hics ad or tran	graphics for suitable for	web or platforms

- 1. Crook, I., & Beare, P. (2017). Motion graphics: Principles and practices from the ground up. Bloomsbury Publishing.
- 2. Shaw, A. (2015). Design for motion: fundamentals and techniques of motion design. Routledge.
- 3. Betancourt, M. (2020). The history of motion graphics. Wildside Press LLC.
- 4. Gallagher, R., & Paldy, A. M. (2006). Exploring Motion Graphics (Design Exploration). Thomson Delmar Learning.
- 5. Krasner, J. (2004). Motion Graphic Design and Fine Art Animation: Principles and Practice. Focal Press.

### **Online Resources**

Animating a Scene in After Effects - After Effects Tutorial - Easy Method Motion Graphics Product Ads In After Effects | Social Media Poster Tutorial After Effects Tutorial: Create Professional AD using Particles | Motion Graphics 2023 Motion Graphics Tutorial | Cool Hover Animation in After Effects

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	L(1)						
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	2.4	2

#### **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

### **Mapping Course Outcome VS Programme Specific Outcomes**

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	S(3)	S(3)	M(2)	L(1)
CO2	S(3)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	M(2)	M(2)	M(2)	S(3)	S(3)
CO5	S(3)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2.2	2

C	C	VI-Semester -Core	1						
Core	Course								
	Code:	Visualization for Multimedia	T	Credits: 4	Hours:4				
	83561								
	1. To grasp fundamental principles of visual communication and design, enabling								
Objective	students to create visually compelling multimedia content.								
	2. To develop skills in creating engaging narratives through multimedia elements.								
		3. To explore interactive multimedia design principles for user engagement.							
	4. To understand and apply data visualization techniques in multimedia content.								
	5. To introduce the concepts and techniques of using VR/AR for immersive								
	multimedia experiences.								
	Introduction to Visualization in Multimedia-Overview of Visualization-Definition and								
Unit I	significance-Evolution of visualization in multimedia-Role of Visualization in								
	Multimedia-Enhancing user experience-Communicating complex information-Types of								
	Visualization in Multimedia-Static vs. Dynamic visualization-Interactive visualization								
Unit II	Visual Perception and Cognition-Understanding how the human brain processes visual								
	information-Gestalt principles in visualization design-Color Theory in Multimedia-Impact								
		of color on emotions and perception-Creating visually appealing color schemes-							
	Typography and Layout in Visualization-Choosing appropriate fonts for multimedia-								
	Principles of layout design for effective communication								
	Introduction to industry-standard tools (e.g., Adobe Creative Suite)-Creating and editing								
TT	visual elements	visual elements for multimedia-Exploring tools for representing and analyzing data							
Unit III	visually-Case s	visually-Case studies on effective data visualization-Introduction to tools for creating							
	interactive multimedia content-Hands-on exercises in building interactive visual elements								
Unit IV	Multimedia Storytelling-Incorporating visualization in storytelling-Narrative techniques								
	for multimedia projects-Virtual and Augmented Reality (VR/AR)-Overview of VR/AR								
	technologies-Applications and challenges in multimedia visualization-Case Studies and								
	Real-world Applications-Analyzing successful multimedia projects-Learning from								
	failures and successes in visualization								
Unit V	Ethical Issues	n Visualization-Privacy concerns-Misreprese	ntatio	n and bias	in visua				
	content-Cultural Sensitivity in Multimedia-Adapting visual content for diverse audiences								
	Case studies on culturally aware multimedia visualization-Future Trends in Visualization								
	for Multimedia-Emerging technologies and their impact-Predictions and considerations								
	for the future of multimedia visualization								
Reference	and Text Books								
1. Ware	e, C. (2019). Info	mation visualization: perception for design. M	lorgan	Kaufmann.					
	S. (2009). Now You See It: Simple Visualization Techniques for Quantitative Analysis.								
,	ytics Press.	. 1		-	2				
3. Mun	zner, T. (2014). V	visualization analysis and design. CRC press.							
4. Plais	ant. C. (2004). T	he Challenge of Information Visualization Ev	aluati	on In Proce	edings of				

4. Plaisant, C. (2004). The Challenge of Information Visualization Evaluation. In Proceedings of the Working Conference on Advanced Visual Interfaces (pp. 109-116). ACM.

CO1	Students will be able to articulate the core concepts of visualization and explain their relevance to multimedia applications.	K1
CO2	Students will demonstrate proficiency in applying principles of visual perception, color theory, typography, and layout in the design of multimedia visualizations.	K3&K6
CO3	Students will develop the ability to integrate visualization techniques into multimedia storytelling, creating coherent and engaging narratives.	K4
CO4	Analyze and evaluate case studies of multimedia projects, identifying successful visualization strategies and areas for improvement.	K5
CO5	Students will demonstrate an understanding of ethical considerations in multimedia visualization, addressing issues such as privacy, misrepresentation, and cultural sensitivity.	K2&K6

# **Course Outcome VS Programme Outcomes**

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

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.6	2.2	2.4

	VI-Semester -Core										
Core	Course Code: 83562 Portfolio & Presentation	Γ Credits: 4	Hours:4								
Objective	<ol> <li>Equip students for effective portfolio creation and presentation</li> <li>Equip students with the skills to create and present effective d</li> <li>Prepare students for professional portfolio presentations in the emphasizing presentation techniques and format requirements</li> <li>Understand the skills to create, use, and analyze marketing me</li> <li>effective portfolio maintenance, design, publishing, and enhard</li> </ol>	ligital portfolio eater, TV, and f s. ediums effectiv	ïlm, ely.								
Unit I	Basics of Portfolio, Importance of portfolio, Elements in Portfolio - Types of Portfolio - The Effective Showcase - Development Techniques - Portfolio requirements - Portfolio Development Techniques Do's and Don'ts.										
Unit II		ntroduction to the Digital Portfolio - The Effective Digital Showcase - Production Fechniques - Design document, Different stages of digital media of their specialization									
Unit III	Presentation: Preparing professional Theater/TV/Film Portfolio Presentation Techniques Professional presentation skill - Presentation Format and requirements.										
Unit IV	Marketing: Business Cards - Blog and Web pages - Importance of I Web pages - Design and development of Business Cards, Blog a analysis for using medium of marketing - Introduction to social netwo	and Web pages	- Mark								
Unit V	Portfolio Maintenance - Components of a Portfolio - Audience, Tone Guidelines - Portfolio Design - Portfolio Budget and Deadline planni portfolio - Portfolio enhancement.	, Range Forma	t, Portfoli								
Film 3. Sara Worl 4. Wied	el Jaen, "Developing and Maintaining a Design-Tech Portfolio A Guid and TV, 2006. Eisenman, "Building Design Portfolios, Innovative Concepts for Pres ". Design Field Guides, 2004 mer, T.L., "Digital portfolios: Capturing and demonstrating skills and rmance", Phi Delta Kappan: SAGE Journals, 1998.	enting Your									
Online Ro	sources										
2. <u>http</u>	enting portfolio projects in a design interview s://www.youtube.com/watch?v=TxBrcdiNqcM folio Round: Present your PORTFOLIO WORK like a Pro!										
2. <u>http</u>	s://www.youtube.com/watch?v=TxBrcdiNqcM	y K1									
2. <u>http</u> 3. <u>Por</u>	s://www.youtube.com/watch?v=TxBrcdiNqcM folio Round: Present your PORTFOLIO WORK like a Pro! Define and demonstrate the importance of portfolios and Identify key portfolio elements and types. Develop the significance of digital portfolios	<sup>y</sup> K1 K3&K6									
2. <u>http</u> 3. <u>Por</u> CO1	s://www.youtube.com/watch?v=TxBrcdiNqcM folio Round: Present your PORTFOLIO WORK like a Pro! Define and demonstrate the importance of portfolios and Identify key portfolio elements and types.	KI									
2. <u>http</u> 3. <u>Por</u> CO1 CO2	s://www.youtube.com/watch?v=TxBrcdiNqcM folio Round: Present your PORTFOLIO WORK like a Pro! Define and demonstrate the importance of portfolios and Identify key portfolio elements and types. Develop the significance of digital portfolios	K1 K3&K6 K4									

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	<b>PO8</b>	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	L(1)	M(2)	M(2)	M(2)	S(3)	S(3)
W.A V	2.4	2.6	2.4	2.2	1.8	2	2.2	2.2	2.4	2

**Course Outcome VS Programme Outcomes** 

S-Strong (3), M-Medium (2), L-Low (1)

Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	L(1)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	S(3)	M(2)	S(3)	M(2)
CO5	M(2	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2	2.4	2.2	2.4

		VI-Semester-Core			
Core	Course Code: 83563	Visualization for Multimedia- Practical	Р	Credits: 4	Hours:6
Objectiv e Major Projection 1. Under acader 2. Title a abstra 3. Introd specia 4. Projection (SMA	<ol> <li>83563         <ol> <li>Design and convisualization experiences.</li> <li>Visualize data showcasing the representations.</li> <li>Visualize data showcasing the representations.</li> <li>Applying visu communicate if the analyze and the weaknesses, a strategies.</li> <li>learn to critica feedback to ite the the analyze and the the the the the the the the the the</li></ol></li></ol>	<b>Practical</b> levelop an interactive multimedia pro- elements, demonstrating proficiency is a relevant to a given multimedia conter e ability to translate complex information s. alization principles to enhance user of information to a target audience. existing multimedia project, identify we and propose redesigns with improve cally evaluate their own and peers' with the problem of project, explaining why the problem or opportunity your project a expective, measurable, achievable, relevant ur major project.	ject i n cre xt usi on into experi visuali dia project vour p you c aims to nt, and	ncorporating ating engaging appropri- o visually co- ence and e zation stren- sual comm rations, inco- jects. ents provideo ct-Include al- roject. shose the spe o address. d time-bounce	y various ging user ate tools, ompelling ffectively ogths and unication orporating l by your brief ccific
<ul> <li>metho for vis impler</li> <li>6. Techr Includ</li> <li>7. Timel deadli budge</li> <li>8. Refer docum</li> <li>9. Appen visual acader</li> </ul>	ds you plan to employ sualization in your may ment, explaining how <b>nical Requirements:</b> le details about the pla <b>line &amp; Budget (if app</b> nes for different proje t required for resource <b>ences:</b> Include a comp nent. <b>ndix (if needed):</b> Attac concepts-Submission mic institution-Submission	Visualization Techniques: Outline the normalization Techniques: Outline the normalization Techniques: Outline the normalization technic they align with your project objectives. Specify any hardware or software required atforms or technologies you'll use. Alicable: Develop a realistic timeline out the phases-If your project requires funding the set of the references of the through the specific submission guideline the pre-visualization document to your project to your project to your project the pre-visualization document to your project to your project to your project the pre-visualization document to your project the pre-visualization document to your project to your project your your your your your your your your	hnique iques ements lining g, prov out yc sketch es pro	es you inten- you plan to s for your pro- key milesto vide an estim our pre-visua es, diagrams vided by you	d to use oject- mes and nate of the ilization s, or early ur
10. Prepa	nent during any sched	<b>if required):</b> Be ready to present and defuled presentations or reviews.			
Outcome	<ul> <li>clarity and ur</li> <li>Showcase the the overall in</li> <li>Develop visu or manipulate</li> <li>Produce visu adhere to des</li> <li>Demonstrate</li> </ul>	e skill to incorporate multimedia compon- pact and user engagement of their visual alizations with interactive features, allow e elements to deepen their understanding. alizations that not only effectively comm ign principles, creating a professional and an understanding of accessibility guideling we text, readable fonts, and color contrasts	ents so lizatio ving us unicat d bran nes, ir	eamlessly, en ns. sers to navig te informatic ided look. incorporating	nhancing ate, click on but also features

### **Reference and Text Books:**

- 1. Robbins, J. N. (2013). Creating More Effective Graphs. Wiley.
- 2. Steele, J., & Iliinsky, N. (2010). Beautiful Visualization: Looking at Data through the Eyes of Experts. O'Reilly Media.
- 3. Ware, C. (2019). Information visualization: perception for design. Morgan Kaufmann.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2.2	2.4	2

### **Course Outcome VS Programme Outcomes**

**S–Strong (3), M-Medium (2), L-Low (1)** 

#### Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	M(2)	M(2)	S(3)
W.AV	2.4	2.6	2.4	2	2.4

	Course Code: 8	3564A	VI-Semester-	Elective-	IV	1	1				
Elective IV	DSE 4	1.Tre	nds in Multimedia		Т	Credits: 4	Hours:4				
Objectiv e Unit I	edge mu 2. Apply a modelin 3. Analyze (VR), ar multime 4. Demons interface 5. Utilize t digital n Blender Scene - Moving, Rotatin layer, outliner, o	<ul> <li>modeling and animation within the multimedia context.</li> <li>3. Analyze and interpret the integration of augmented reality (AR), virtual reality (VR), and mixed reality (MR) applications, understanding their impact on multimedia experiences.</li> <li>4. Demonstrate hands-on skills in interactive multimedia design to create user interfaces and experiences.</li> <li>5. Utilize the latest trend for creating multimedia content tailored for social media and digital marketing, understanding the platform-specific requirements and trends.</li> <li>Blender Scene – Manipulating editor window – 3d window space navigation – Selecting, Moving, Rotating and Scaling object – File navigation – Blender units and scale - Pivot, ayer, outliner, duplication - Camera view and orthographic view – Camera look to view –</li> </ul>									
Unit II	l(creating the in Materials – Mat Image texture – file – Render s Lamp – Spot La	yer, outliner, duplication - Camera view and orthographic view – Camera look to view – ertices, edges and Faces – Subdivide – Knife cut – Extrude – Spin – Screw – Assignment (creating the interior design). Interials – Material Shader - UV Textures – Multiple material – Transparency material – nage texture – Procedural texture – Bump Texture – Material Ramp – Render to Image le – Render slots - Point Lamp – Sun Lamp and sun lamp sky – Hemi Lamp – Area amp – Spot Lamp – Ambient Occlusion – Lamp constraints and Parenting – Assignment									
Unit III	Basic keyframe Camera Path an – Shape animat	animation – C imation – Introdu ion – Constraint	odeling with texture). Braph Editor – Cyclic uction to armature – La s - Rendering image a nment 3 (Walk cycle, I	attices - A nd anima	lpha tion	a and color a in different	animation				
Unit IV	Rigging basic – Create the arma – Naming the b null bone for I Groups – Weigl	Understanding t ture for the body ones – Understa K solver – appl at paint mode	he Armature modifier – Extruding the spine inding IK and FK solv by the armature modif	–Add Arn – Extrudi ver – Add fier to the	natu ing t an e m	re – Mirror he arms syn IK solver - esh – Paint	metricall Creating ing Verte				
Unit V	wave – Creatin point – Tweak video format –	g a walk cycle – ng the walk cyc Export alpha sec	tion editor – Move to Contact poses – Flipp cle – Rendering the s juence frame.	ping poses	s -	Passing po	ses – Hig				
1. Thila Begin Comp Publi	nner's Guide to C positing and Ren shing Platform.	16). Blender 3D Getting Started w dering Within B	For Beginners: The Co ith Navigating, Modeli lender United Kingdo	ng, Anima om: Create	atin; eSpa	g, Texturing ce Independ	, Lighting ent				
Anim 3. van C 4. Simo Mate 5. Hess,	hation. United Ki Gumster, J. (2020 nds, B. (2013). I rials, and Rende	ngdom: Packt Pu ). Blender For D Blender Master C ring. United State der Production: (	The Complete Novice ablishing. Dummies. United Kingo Class: A Hands-on Guid es: No Starch Press. Creating Short Animat	lom: Wile le to Mode	ey. eling	g, Sculpting	,				

	esources ww.blenderguru.com/tutorials/blender-beginner-tutorial-series ww.youtube.com/@cg_cookie/videos	
CO1	Demonstrate proficiency in Blender's editor manipulation, 3D space navigation, and object manipulation, applying these skills to efficiently create and navigate interior design scenes	
CO2	Master the intricacies of material creation in Blender, including shaders, UV textures, transparency, and various lighting techniques, and apply this knowledge to model a primitive man with realistic textures	
CO3	Acquire foundational skills in keyframe animation, utilizing the Graph Editor and exploring cyclic animations, path animations, and camera path animations, culminating in the creation of a dynamic walk cycle and action sequence	
CO4	Develop expertise in rigging using Blender's Armature modifier, mirror modifier, IK and FK solvers, and weight painting, resulting in the successful rigging of a character model for animation	K5
CO5	Demonstrate advanced animation techniques in Blender, including creating a realistic wave, a walk cycle, and refining poses using the action editor, ultimately rendering scenes and exporting sequences in various video formats	

## **Course Outcome VS Programme Outcomes**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	L(1)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	S(3)	S(3)	L(1)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.4	2.2	2.2	2	2.2	2	1.8	2

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	S(3)	M(2)	M(2)	M(2)	M(2)
CO4	M(2)	M(2)	S(3)	S(3)	M(2)
CO5	M(2)	M(2)	S(3)	M(2)	S(3)
W.AV	2.4	2	2.4	2.2	2.4

	le: 83564B	<b>VI-Semester</b>			
Elective IV	DSE 4	2.Interactive Media Design and User Experience	Т	Credits: 4	Hours:4
Objectiv e	<ul> <li>evolution</li> <li>2. Acquire research, media so</li> <li>3. Master v media de</li> <li>4. Analyze, designs, devices.</li> <li>5. Attain printeractive libraries</li> </ul>	vireframing and prototyping techniques, applyitesigns and gaining proficiency in the use of pro- tintegrate, and implement various multimedia of demonstrating the ability to create user interface ractical programming skills using HTML, CSS, we media, while exploring relevant web develop to build functional prototypes and applications	porary es, inc ys for ng the totypi eleme ces res , and J pment	y media tech luding cond effective in em to create ing tools. nts into inter sponsive to c JavaScript for	nology. ucting use teractive interactive ractive liverse or s and
Unit I	and concepts - U - Exploring the	<b>Interactive Media Design</b> - Introduction to Jnderstanding user experience (UX) design printi history and evolution of interactive media - practive media design.	inciple	es and their i	importance
Unit II	User-Centered methodologies -	<b>Design and Prototyping</b> - In-depth explorate Conducting user research, personas, and user juniques for interactive media - Introduction to	journe	ys - Wirefra	ming and
Unit III	Interactive Me media elements components int	<b>dia Elements and Multimedia Integration</b> text, images, audio, and video - Techniques o interactive designs - Hands-on projects er interfaces - Introduction to responsive desig	for in incom	ntegrating m	ultimedia ultimedia
Unit IV	concepts for int interactive desig	<b>dia Programming and Development</b> - Introduce eractive media - Hands-on coding using HTM gn - Overview of web development framewo types and simple applications.	AL, C	SS, and Jav	aScript fo
Unit V	media design. H	<b>ng and User Feedback</b> - Importance of use Planning and conducting usability tests - Ana esign improvement - Iterative design process	lyzing	g and interp	reting use

- 2. Tondreau, B. (2019). Layout Essentials Revised and Updated: 100 Design Principles for Using Grids. United Kingdom: Rockport Publishers.
- 3. Cooper, A., Reimann, R., Cronin, D. (2012). About Face 3: The Essentials of Interaction Design. Germany: Wiley.
- 4. Rubin, J., Chisnell, D. (2011). Handbook of Usability Testing: How to Plan, Design, and Conduct Effective Tests. Germany: Wiley.
- 5. McFarland, D. S. (2011). JavaScript & JQuery: The Missing Manual. United States: O'Reilly Media.

Online Res	sources	
	w.youtube.com/watch?v=hu-q2zYwEYs&ab_channel=NetNinja	
	w.youtube.com/watch?v=Yt2troF-Eyc&ab_channel=ForrestKnight	
	w.youtube.com/watch?v=p0bGHP-PXD4&ab_channel=TraversyMe w.nngroup.com/articles/usability-testing-101/	
	samiq.com/wireframes/desktop/docs/intro/	
CO1	Demonstrate a comprehensive understanding of foundational principles and concepts in interactive media design, including the historical evolution and the significance of user experience (UX) design.	K1
CO2	Apply user-centered design methodologies proficiently, conducting thorough user research, creating personas, and developing user journeys to inform the design process.	
CO3	Master wireframing and prototyping techniques, utilizing appropriate tools to create interactive media designs that incorporate multimedia elements such as text, images, audio, and video.	
CO4	Acquire practical programming skills in HTML, CSS, and JavaScript, enabling the creation of interactive prototypes and simple applications while understanding the role of web development frameworks and libraries.	К5
CO5	Demonstrate expertise in usability testing, including the ability to plan and conduct tests, analyze user feedback, and iteratively improve interactive media designs based on usability insights.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	S(3)	S(3)	L(1)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	S(3)	S(3)						
CO3	M(2)	S(3)	S(3)	S(3)	S(3)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	L(1)	M(2)	S(3)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.4	2.4	2	2.2	2.2	2.4	2

**Course Outcome VS Programme Outcomes** 

**S–Strong (3), M-Medium (2), L-Low (1)** 

# Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	S(3)	S(3)	L(1)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	S(3)	S(3)	S(3)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	S(3)
CO5	M(2)	S(3)	M(2)	M(2)	M(2)
W.AV	2.4	2.6	2.6	2.4	2

	ode: 83564C	VI-S	emester								
Elective IV	DSE 4	3.Digital Market	ing and Social Media	T	Credits: 4	Hours:4					
Objectiv e	<ol> <li>To understand the scope of digital marketing India and the different types of channels used in digital marketing and its tools.</li> <li>To know the definition of Search engine marketing and campaigns by using SEM on different platforms.</li> <li>Understanding the importance of Social presence of a company in the various platforms.</li> <li>To understand the importance of Email marketing and the strategies used in creating campaigns.</li> </ol>										
Unit I	5. To ackno ideas use Introduction, Ty	<ul> <li>creating campaigns.</li> <li>5. To acknowledge the strategies used in international marketing and promotional ideas used by the advertisers and its ethics.</li> <li>ntroduction, Types, History of marketing and its importance, Case studies of Branding-</li> </ul>									
	opportunities of content in digita	f digital marketing l marketing.	ance, Case studies of o india and worldwide-De	finitio	n and impo	rtance of					
Unit II	buyer personas optimization-Or Content calenda Articles-Infogra social media p	Role of content in the customer journey-Audience analysis and segmentation-Creating buyer personas-Importance of SEO in content marketing-Keyword research and optimization-On-page and off-page SEO considerations-Developing a content strategy- Content calendars and scheduling-Aligning content with marketing goals-Blog posts- Articles-Infographics-Videos-Podcasts-Social media posts-Tailoring content for different social media platforms-Copyright and plagiarism-Privacy considerations in content									
Unit III	Definition and engines-How se keywords and structure optimi backlinks-Link-	creation-Creating a writing portfolio-Freelancing and working with clients. Definition and importance of SEO in digital marketing-Historical evolution of search engines-How search engines work-Tools and techniques for keyword research-Long-tail keywords and their importance-Title tags, meta descriptions, and header tags-URL structure optimization-Image optimization-Content optimization strategies-Importance of backlinks-Link-building strategies-Overview of popular SEO tools (e.g., SEMrush, Moz, Ahrefs)- Analyzing successful SEO campaigns- Implementing SEO strategies on real									
Unit IV	Definition and context and evo testing ad copy- amounts and bi Google Map -	lution of SEM-Craf Ad extensions and th d adjustments-Budg Location extensions	EM-Distinction between ting compelling ad headl heir impact-Manual vs. au set allocation and manag a-Geo-targeting strategies orld SEM campaigns-De	ines ar tomate ement- -Hands	nd descriptions ad bidding-S Local searc s-on experie	ons - A/B etting bid h ads on ence with					
Unit V	Creation of pos Domain-Socialn Youtube- Creat REputation man visuals and mu	nedia - marke ion of campaigns i agement of a brand ltimedia in emails-O	tware-Skippable ad-Basi ting-Instagram-Facebook in the mentioned platfor on the social media platfo Crafting compelling subjection onalization in email mar	-Linke ms-Au rms-Ei ect line	din-Quora-L Idience Eng mail marketi es- Writing	Linked-X- agement- ng-Using engaging					

### **Reference and Text Books:**

- 1. Chaffey, D., & Ellis-Chadwick, F. (2019). Digital Marketing: Strategy, Implementation and Practice (8th ed.). Pearson.
- 2. Chaffey, D., & Smith, P. R. (2017). Digital Marketing Excellence: Planning, Optimizing and Integrating Online Marketing (5th ed.). Routledge.
- 3. Pulizzi, J. (2014). Epic Content Marketing: How to Tell a Different Story, Break through the Clutter, and Win More Customers by Marketing Less. McGraw-Hill Education.
- 4. Evans, D., McKee, J. (2010). Social Media Marketing: The Next Generation of Business Engagement. Germany: Wiley.
- 5. Ryan, D., Jones, C. (2012). Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation. United Kingdom: Kogan Page.

### **Online Resources**

https://grow.google/intl/uk/courses-and-tools/?category=career&topic=digital-marketing https://www.youtube.com/@GoogleAnalytics/videos

CO1	Understanding the tools, channels and scope of digital marketing in India and worldwide.	K1
CO2	Gaining experience in doing a live campaign by Search engine marketing on various platforms.	K3&K6
CO3	Experiencing in creating campaigns in various digital platforms and the importance of social media presence in the current scenario.	K4
CO4	Experience in creating the campaigns in email marketing using any platform including content and design.	К5
CO5	Knowledge gaining in the aspect of international marketing, ethical issues and promotional strategies.	K2&K6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	L(1)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2.2	2.2	2.4	2.4	2.2	2.4	2

**Course Outcome VS Programme Outcomes** 

S-Strong (3), M-Medium (2), L-Low (1)

# Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	S(3)	M(2)	M(2)	M(2)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)
CO3	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.4	2	2.4	2.4

		VI-Semester			
Core	Course Code: 83565A/ 83565B	Project/ Dissertation	PR/ D	Credits: 6	Hours:12
Objec	<ul> <li>clear resear</li> <li>2. Demonstra the disserta</li> <li>3. Acquire ad methodolog</li> <li>4. Cultivate e communica</li> <li>5. Demonstra</li> </ul>	e ability to formulate a well-defined re- rch questions or objectives. te proficiency in conducting a compre- ation within the broader academic cont- vanced research and analytical skills t gy for data collection and analysis. ffective academic writing skills, inclu- ation of complex ideas and findings in te a critical understanding of ethical co- aciples throughout the dissertation pro-	chensive liter text. to design and ding the syn a coherent n onsideration	rature review I implement thesis and nanner.	v to situate a robust
isserta	tion for Major Projec	t			
F 2. <b>F</b> a	Provide a brief overview Research Objectives: ( ims to address Ali	<b>kground:</b> Clearly define the scope a of the background literature and the r Clearly state the research questions of gn the objectives with the broader	research gap or objectives	being addre that the di	essed issertation
3. I h e	ighlighting key theorie xisting literature that th	nduct a thorough review of relevant lit es, frameworks, and previous research e dissertation seeks to fill. he research design, methods, and tools	ch studies	Identify ga	ups in the
5. I	Data Collection: Descr	and discuss its appropriateness for the ibe the process of data collection, inc	cluding the t		a gathered
6. A t	Analysis and Findings:	ecting - specific sources or participants Present and analyze the data collecte Discuss any unexpected findings and	ed, demonstra		
7. I	Discussion: Interpret t	he results in the context of the ends and their contributions to the field			scuss the
8. <b>(</b>	Conclusion: Summarize	e the key findings and their implicat actical applications based on the result	tions Prov		endations
9. I I	Limitations: Acknowle Discuss how these limita	dge any limitations in the research de ations may have influenced the study's	esign or data s outcomes.		•
	<b>References:</b> Compile a he required citation styl	comprehensive list of all sources cite e (e.g., APA, MLA).	ed in the dis	ssertation, ac	to the start difference of the
utcom	e				
1. I	Demonstrate the ability	to formulate and articulate a well-defined to for the dissertation project.	ned research	ı problem wi	ithin the
2. A	1	h methodologies and analytical technic	ques to inve	stigate and a	ddress
3. I	Develop proficiency in a	critically reviewing and synthesizing e ation for the dissertation.	existing litera	ature to estab	olish a
4. S	showcase effective write	ten communication skills through the p cument that adheres to academic stand	-	of a compreh	ensive an
5. I	Demonstrate ethical rese	earch practices and a critical awarenes d validity of the dissertation work in t	s of ethical c		

СО	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	L(1)	L(1)	M(2)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	2	2.2	2.2	2.2	2.4	2

# **Course Outcome VS Programme Outcomes**

S-Strong (3), M-Medium (2), L-Low (1)

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	M(2)	M(2)	M(2)	M(2)
CO2	M(2)	S(3)	S(3)	M(2)	S(3)
CO3	M(2)	M(2)	M(2)	M(2)	M(2)
CO4	S(3)	L(1)	S(3)	S(3)	M(2)
CO5	S(3)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2	2.4	2.2	2.4