

Dr YSR Architecture and Fine Arts University

BFA in

Animation

Course Structure and Syllabus

REGULATIONS-21

College of Fine Arts Department Of Animation

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DEPARTMENT OF ANIMATION

Vision

To produce effectively trained socially responsible and creative media professionals to serve the society and industry. To make the students ready with the future technologies and tools, which are focuses on developing, content, which has positive impact on the social and economic aspects of the society and industry?

Mission

- To offer Animation and Multimedia courses that adds value to student competencies.
- To promote quality education, research, and consultancy for industrial and societal needs.
- To impart leadership and teamwork qualities in students
- To provide state-of-the-art resources that contributes to better learning environment.
- To encourage students to pursue higher education and take competitive exams and various career enhancing courses.
- To establish centres of excellence in emerging areas of research
- To have regular interaction with industry and offer solutions to their problems

Program Educational Objectives (PEOs)

PEO 1: Practice animation in a broad range of industrial, societal, and real-world applications

PEO2: Pursue advanced education, research and development, and other creative and innovative efforts in science, engineering, and technology, as well as other professional careers

PEO 3: Conduct themselves in a responsible, professional, and ethical manner

PEO 4: Take part as leaders in their fields of expertise and in activities that support service and economic development throughout the world

Programme Outcomes (PO's)

- **1.** Artistic and technical knowledge: An ability to apply the artistic knowledge in using the traditional and technical tools of animation in the field of animation
- **2. Problem analysis:** An ability to identify, formulate, review, and analyse and solve complex problems in the animation production pipeline
- 3. Design solutions: An ability to design animations in variety of mediums which
- 4. Analysis, Design and Research: An ability to design and conduct experiments, as well as to analyse and interpret data
- 5. Modern tool usage: An ability to use the techniques& skills in animation
- **6.** The society and culture: Contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to Animation

- **7. Environment and sustainability:** Explore media, communication, and dissemination techniques to entertain via written, oral, and visual media.
- **8.** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the professional practice.
- **9. Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **11. Project management and finance:** Demonstrate knowledge and understanding of the Animation principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **12. Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PEOs		Program Outcomes												
1205	1	2	3	4	5	6	7	8	9	10	11	12		
Ι	\checkmark	√	\checkmark	>	UN	VE	a st			1				
п			~	>	~		220	>	\sim	/				
ш				71	a	सर्यः	.12	>	~	\checkmark	\checkmark			
IV					7		~					\checkmark		

Correlation between the POs and the PEOs

Program Specific Outcomes (PSOs):

PSO1: Ability to understand different animation principles

PSO2: Ability to use different animation tools to work on a real time animation film project

PSO3: Ability to apply project management principles, Legal and contractual aspects to real time projects for efficient execution animation projects

PSO4: Ability to use tools and techniques to create aesthetically pleasing animation and multimedia content

COLLEGE OF FINE ARTS

BFA ANIMATION

COURSE STRUCTURE

SEMESTER I

S.	Course	Course Title		iods ek	per		Cre	Marks			End Exam
No	Code		L	T	Р	To tal	dits	Int	Ext	Tota 1	W/P/ J
1	AN21B1G1	History of Art	4	0	0	4	4	50	50	100	W
2	CC21B1EN	English	2	0	0	2	2	50	50	100	W
3	AN21B1C1	Story Concepts	4	0	0	4	4	50	50	100	W
	Laboratories	5/Studios		2016		10	2	J			
4	AN21B1P1	Basic Drawing	0	1	6	17C	7	50	50	100	Р
5	AN21B1P2	Modelling	0	0	7.4	7	7	50	50	100	Р
6	AN21B1P3	Fundamentals of Design	1	1	5	7	6	50	50	100	Р
	Mandatory (Course	EST	02	020	/		>/			
7	MC21B101	UHV-1 (AICTE)	2	0	0	2	0	0	0	0	
		Total	13	2	18	33	30	300	300	600	

S.	Course	Course Title	Per We		per		Cre	Marl		End Exam	
No	Code		L	Т	Р	To tal	dits	Int	Ext	Tota 1	W/P/ J
1	AN21B2C1	History of Animation	4	0	0	4	4	50	50	100	W
2	AN21B2C2	Script Writing	3	0	0	3	3	50	50	100	W
3	CC21B2CS	Communication Skills	2	0	0	2	2	50	50	100	W
	Laboratorie	s/Studios	5	Ш	E.	20					
4	AN21B2P1	Principles of Animation	F	1	5	7	7	50	50	100	Р
5	AN21B2P2	Character Design	1	16	6	8	8	<mark>5</mark> 0	50	100	Р
6	AN21B2P3	Story Boarding	1	0	6	7	6	5 0	50	100	Р
	Mandatory	Course		1	1	MC	3	1			
7	MC21B101	Environmental Studies (AICTE)	2	0	0	2	0	0	0	0	
		Total	14	2	17	33	30	300	300	600	
		110	EST	102	020	/		>/		1	1

SEMESTER II

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S.	Course	Course Title		riods æk	per		Cre	Marks			End Exam
No	Code		L	Т	Р	To tal	dits	Int	Ext	Tota 1	W/P/ J
1	AN21B3P1	Basic Computers	1	0	4	5	5	50	50	100	Р
2	AN21B3P2	3D Props & Sets Modeling	0	1	4	5	5	50	50	100	Р
3	AN21B3P3	Drawing for 2 D Animation	0	1	5	6	5	50	50	100	Р
4	AN21B3P4	Graphic Design - 1	1	1	4	6	5	50	50	100	Р
5	AN21B3P5	Effects of Animation	0	1	4	5	5	50	50	100	Р
6	AN21B3P6	Digital Painting	0	1	2	3	3	50	50	100	Р
	Skill Oriente	ed Cours <mark>e</mark>		36	2	10					
7	AN21B3K1	Skill Oriented course-1(UI)	0	0	2	2	2	100	0	100	Р
	Mandatory (Course		0	ost.						
8	MC21B301	Indian Constitution (AICTE)	2	0	0	2	0	0	0	0	
		Total	45	52	25	34	30	400	300	700	

SEMESTER III

S.	Course	Course Title	Per We	riods æk	; pei	•	Cr ed	Mar	ks		End Exam
No	Code		L	Т	Р	Tota 1	its	Int	Ext	Total	W/P/ J
	Professional	Core									
1	AN21B4P1	Character Animation	1	1	4	6	5	50	50	100	Р
2	AN21B4P2	Graphic Design - II	1	1	3	5	5	50	50	100	Р
3	AN21B4P3	2D Portfolio	0	0	5	5	5	100	0	100	Р
4	AN21B4P4	Motion Graphics	1	1	3	5	5	50	50	100	Р
5	AN21B4P5	Fundamentals of 3D	1	0	5	6	6	50	50	100	Р
6	AN21B4O1	Principles of Animation (Open Elective-1)	0	0	2	2	2	100	0	100	Р
	Skill Oriente	ed Cours <mark>e</mark>	7	1	7	18	Ð				
7	AN21B4K1	Advanced communication skills (Skill Oriented Course-2)	0	2	0	2	2	100	0	100	Р
	Mandatory	Course			-						
8	MC21B401	Essence of Indian Traditional Knowledge (AICTE)	2	0	0	2	0	0	0	0	
	*Mandatory	Community Service Proje	ct (A	N21	B50	CS) duri	ng su	mmer	vacatio	on betwee	en IV
	and V semest	er as per the guidelines gi	ven l	by A	PSC	CHE					
		Total	6	5	2 2	33	30	400	300	700	

SEMESTER IV

S. No	Course Code	Course Title	Per	iods I	per W	'eek	Cr edi	Mark	S		End Exa m
			L	Т	Р	To tal	ts	Int	Ext	Total	W/P /J
	Professional	Core									
		3D Inorganic									
1	AN21B5P1	Modeling and	1	1	5	7	5	50	50	100	Р
		texturing	30		1						
2	AN21B5P2	Lighting and Rendering	1	1	5	7	5	50	50	100	Р
3	AN21B5P3	Rigging and Skinning	1	1	5	7	5	50	50	100	Р
4	AN21B5P4	Anatomy Study	0	1	5	6	5	50	50	100	Р
	Professional	Elective		9	4			A			
5	AN21B5E1	Stop motion Animation	0	ĘR		2	2	50	50	100	Р
	AN21B5E2	Craft Design	ES	020	20	2	/	//			
	Open Electiv	ve 💦	4	ধার		2					
6	AN21B5O1	Open Elective – Motion Graphics	0	1	1	2	2	100	0	100	Р
	Skill Oriente	ed Course									
7	AN21B5K1	Clay Modeling (Skill Oriented Course-3)	0	0	2	2	2	100	0	100	J
8	GN21B5CSP	Community Service Project	Vac hou	cation	(180	I	4	100	-	100	J
		Total	3	6	24	33	30	550	250	800	

SEMESTER V

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			Per	iods	per			Mar			End
S.	Course	Correct Title	We	ek			Cre	Mar	KS		Exam
No	Code	Course Title	L	Т	Р	To tal	dits	Int	Ext	Total	W/P/ J
	Professional	Core									
1	AN21B6P1	3D Sculpting	0	1	5	6	5	50	50	100	Р
		3D Character									
2	AN21B6P2	Modeling and	0	1	5	6	6	50	50	100	Р
		Texturing	2			D					
3	AN21B6P3	3D Animation	0	1	5	6	6	50	50	100	Р
4	AN21B6P4	Matte Painting	0	1	4	5	4	50	50	100	Р
	Professional	Elective Section			ET	13					
	AN21B6E1	Game Modeling	X	711	X	MC.	E				
5	ANZIDULI	&Texturing	1	0	5	6	5	50	50	100	Р
5	AN21B6E2	Advanced Lighting	- /		5-6		5	50	50	100	1
	ANZIDUL2	and Rendering	Λ	E	S			1	1		
	Open Electiv	ve	Fe		20			>/	/		
		Open Elective –	20	02	100	Red	/	/			
6	AN21B6O1	Advanced Motion	0	1	1	2	2	100	0	100	Р
		Graphics									
	Skill Oriente	ed Course									
		Print Making									
7	AN21B6K1	Technique (Stencil	0	0	2	2	2	100	0	100	J
/	ANZIDUKI	Cut) (Skill –	U	0	2	2	2	100	0	100	J
		Oriented Course-IV)									
		*Industrial/ Research	Interi	nship	o (ANZ	21B7I	N) mar	ndatory	y after V	VI Seme	ster
		Total	1	5	27	33	30	450	250	700	

SEMESTER VI

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S.	Course	Course Title	Per We		per		Cre	Mar	ks		End Exam
No	Code		L	Т	Р	To tal	dits	Int	Ext	Total	W/P/ J
	Professional	Core									
1	AN21B7P1	Character Animation & Lip sync	1	1	5	7	6	50	50	100	Р
2	AN21B7P2	Digital Compositing	1	1	5	7	6	50	50	100	Р
3	AN21B7P3	Audio and Video Editing	F	1	3	5	5	50	50	100	Р
	Professional	Elective	1	316	27	1:	100				
4		Dynamics & FX		0	5	1	5	50	50	100	Р
	AN21B7E2	Match Moving		0		60	5	50	50	100	ſ
	Open Electiv	ve		5	1º=f						
5	AN21B7O1	Open elective (Fundamentals of 3D Modeling)	0 ES	02	2 2 20	2	2	100	0	100	Р
	Skill Oriente	ed Course	3	CE.		1100					
6	AN21B7K1	Research Methodology (Skill Oriented Course-V)	2	0	0	2	2	100	0	100	Р
7	AN21B7IN	Industrial/ Research Internship		catio urs)	n (180)	4*	100	0	100	J
		Total	6	3	20	29	30	500	200	700	

SEMESTER VII

*Credits for Industrial Internship carried out during summer vacation between VI and VII semesters

SEMESTER VIII

		VIII	[-Seme	ster BF.	A Ani	matior	1				
Sl. No	Course Code	Course Title	Perio	ods per	Weel	ζ.	Cre dits	Marks Tota			End Exa m
			L	Т	Р	To tal	uits	Int	Ext	Tota 1	W/P/ J
1	AN21B8IN	Internship		THE		-	12	50	50	100	J
2	AN21B8PR	Project /Portfolio	540 Hours			18	100	100	200	J	
		Total		3	-	A	30	150	150	300	

ESTD2020

*Mandatory Internship don<mark>e</mark> during current semester will be extend as major project.

SEMESTER - I

SEMES						Int.	Ext.	Total		
		I					_ '	Marks	Marks	Marks
Ι	I	AN21B1G1	History of Art	4	0	0	4	50	50	100
Cos	Γ	J	Course Outcom	ies			L	L	POs	BTLs
	\vdash								 	
CO1	This	course exposes	on Renaissance Art, and	archi	tectur	e and	the s	students	1,2	1,2
	learr	a the concepts, th	nemes and history of Ren	laissa	nce ar	t.				
CO2	This	s topic gives a bri	ie <mark>f understanding of the I</mark>	Mann	erism	Art, J	Key J	ldeas &	1,2	1, 2
	Acc	omplishments, aı	n <mark>d</mark> Definition of Art & C	harac	teristi	cs.				
CO3	To S	To Study Baroque Art, particularly painting, sculpture, architecture, pri								1, 2
	mak	ting, murals and	Iannerism							
	perio	od.								
CO4	Stud	lents will focus	sculpture,	3, 4	1, 2					
	arch	iitecture, p <mark>rintmal</mark>	ums.							
CO5	To	understand Sigr	nificance of Neo classi	cism	Art,	study	y of	painting,	4, 5	1, 2
	scul	pture, printmaki	ng, architecture, design	is, ch	anges	the	way	they see		
	worl	ld and society.	GIGE	-	1	/				
CO6	Το τ	understand variou	us concepts of Romantic	cism a	and Re	ealisn	n Art	, study of	5, 6	1, 2
	pain	ting, sculpture,	printmaking, architectu	re, de	esigns	, cha	inges	the way		
	they	v see world and so	ociety.							
	4								<u> </u>	
MODUI	LE- I									
The Rer	ıaissan	ice in the Italian	renaissance basic Concep	pts, R	enais	sance	Art ł	nistory, Re	naissance	art style
backgro	und, R	lenaissance art in	nfluence, Renaissance arc	chitec	ture s	tyles,	subje	ect matters	, illuminat	ed
manuscr	ript, sc	ulptures, Metalw	vork, Architectural sculpt	ture, v	wall p	aintin	ıgs, p	aintings, S	ources and	i style o
work of	art, De	evelopment of Ro	enaissance art.							
MODUI	LE- IJ	í T								

Mannerism Art that breaks the rules; Study of Origin and development, mannerism makes itself, elongated proportions, highly stylized pose, and lack of clear perspective, venting painting, artifice over nature, Counter Reformation, importance of humanism, classicism: idealization of human form, Artists, Tintoretto, El Greco, Pontormo, Bronino, Cellini Historical events: Magellan Circumnavigates the globe.

MODULE- III

Baroque Art, art glorifies worldly splendour of Catholic Church; emphasis on miracles, depicted, theatricality, dramatic composition, emotionality. Study about Baroque history, painting, sculpture, furniture, and catholic churches, Counter Reformation how it impacted or imposed an academic art style on religious architecture, the exploration of Splendour and flourish for God; art as a weapon in the religious wars. Chief Artists Reubens, Rembrandt, and Caravaggio, Nicolas Poussin; Vermeer Palace of Versailles Historical events: Thirty years war between Catholics and Protestants.

MODULE-IV

Introduction to Rococo Art, influences and developments of Rococo Art, illusionism, eroticism, Artifice preferred over sincerity, smaller scale; intimate, decorative, often seen in applied arts as accessories, feeling for nature: Arcadia as ideal landscape, genre opposed to court eroticism aims at middle class to instruct and inspire; themes of love, family, every day, works are depicted.

MODULE-V

To understand the Neo classicism art, Basic Concepts of Neoclassicism, reaction to Enlightenment. Neoclassic art is stable, solid; subject matter is heroic, even grandiose, "antique revival": developments of Neoclassical art, paintings, sculptures, architecture.

MODULE – VI

STD2020

Romanticism and Realism reaction to Enlightenment: subjectivity, intuition, instinct, And reaction to art, interest in the mind, its moods, and its mysteries, sensuality, exoticism, Nature: evocative landscapes, natural beauty, and dramatic changes in landscape themes, developments of Romanticism and Realism art, paintings, sculptures, architecture.

- 1. Anthony Hughes, Michelangelo, Phaidon Series 2010
- 2. Susie Hodge, Art, Qurcus, 2013
- 3. Michael Kittson, Rembrandt, Phaidon Series 2010
- 4. John Sunderland, John Constable, Phaidon Series 1981
- 5. Catherine Puglisi, Caravaggio, Phaidon Series2010
- 6. Helen Langdon, Holbein, Phaidon series 2003

- 7. Edit Tomory, A History of Fine Arts in India and the West. Orient Longman.
- 8. Janis Tomlinson, Francisco Goya, Phaidon series 2010
- 9. Sir Lawrence Gowing, A History of Art, Andromeda 2002
- 10. Helen Gardner, Fred Kleiner Gardner's Art Through the Ages: A Global History, Wadsworth Publishing Co Inc; 16th edition (1 January 2019).
- 11. Paludan, Ann. Chinese Sculpture: A Great Tradition. Chicago: Serindia Publications, 2006.
- 12. Weidner, Marsha ed. Cultural Intersections in Later Chinese Buddhism. Honolulu: University of Hawai'i Press, 2001.

13. Weidner, Marsha, ed. Latter Days of the Law: Images of Chinese Buddhism, 850–1850. Lawrence: Spencer Museum of Art, University of Kansas, 1994.



SEMES	TER	Course Code	Course Title	L	Т	P/ S	C	Int. Marks	Ext. Marks	Total Marks
Ι	CC21B1ENEnglish200250						50	50	100	
Cos	Course Outcomes								POs	BTLs
	the students should be able to									
CO1		Understand modern English grammar. To enable them produce grammatically and idiomatically correct language.								1,2
CO2	Impr	ove their clause		NA	1,2					
CO3	Understand English grammar. Spot language errors and correct them. T help them minimize mother tongue influence.								NA	1,2
CO4	Impro	ove their verbal	communication skills	1	10				NA	1,2
CO5	D5 Understand core grammar to know and understand error free Englis grammar.							e English	NA	1,2
CO6	CO6 Minimise mother tongue influence								NA	1,2

MODULE – I

Modern English grammar - what and why and how of grammar - grammar of spoken and written Language; Sentence as a self-contained unit – various types of sentence – simple – compound – complex – declaratives – interrogatives – imperatives – explanative; Basic sentence patterns in English - constituents of sentences – subject – verb - object - complement – adverbials;

ESTD2020

MODULE – II

Clauses - main and subordinate clauses - noun clauses - relative clauses - adverbial clauses - finite and non-finite clauses - analysis and conversion of sentences – Active to Passive and vice versa – Direct to Indirect and vice versa – Degrees of Comparison, one form to the other;

MODULE - III

Phrases - various types of phrases - noun, verb, adjectival and prepositional phrases; Words - parts of speech - nouns - pronouns - adjectives verbs - adverbs - prepositions - conjunctions - determinatives; Nouns - different types - count and uncounted - collective - mass - case - number - gender;

MODULE – IV

Pronoun - different types - personal, reflexive - infinite-emphatic – reciprocal; Adjectives - predicative - attributive - pre- and post-modification of nouns; Verbs - tense-aspect - voice -mood - Concord - types of verbs – transitive - intransitive-finite – non-finite; Helping verbs and modal auxiliaries - function and use.

MODULE – V

Adverbs - different types - various functions - modifying and connective; Prepositions - different types - syntactic occurrences - prepositional phrases - adverbial function; Conjunctions - subordinating and coordinating Determinatives articles - possessives – quantifiers;

MODULE – VI

Remedial grammar - error spotting - errors in terms of specific grammatical concepts like constituents of sentences - parts of speech - concord – collocation - sequences of tense - errors due to mother tongue influence; Written Composition – précis writing – outline story – expansion of proverb – short essay.

- Burt, Angela. Quick Solutions to Common Errors in English. Macmillan India Limited,2008.
- Carter, Ronald, and Michael McCarthy. Cambridge Grammar of English. CUP, 2006.
- Concise English Grammar by Prof. V. K. Moothathu. Oxford University Press, 2012.
- Driscoll, Liz. Common Mistakes at Intermediate and How to Avoid Them. CUP, 2008.
- English for Effective Communication. Oxford University Press, 2013.
- Greenbrae, Sidney. Oxford English Grammar. Indian Edition. Oxford University Press, 2005.
- Kenneth, Anderson, Tony Lynch, Joan MacLean. Study Speaking. New Delhi: CUP, 2008.
- Leech, Geoffrey et al. English Grammar for Today: A New Introduction. 2nd Edition. Palgrave, 2008.
- Leech, Geoffrey, Jan Svartvik. A Communicative Grammar of English. Third Edition. New Delhi: Pearson Education, 2009

SEMES	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
Ι		AN21B1C1	Story Concepts	4	0	0	4	50	50	100
Cos			Course Outcom	es					POs	BTLs
	The s	tudent will be abl								
CO1	To un	derstand the struc		1,2	1, 2					
CO2	To de	fine different nar		3,4	3, 4					
	To un	derstand Genres	and character developn	nent						
CO3	To de	evelop a character	for the story	73					5,6	4, 6
CO4	To an	To analyse a story and its story and character development								5, 6
CO5	To Vi	To Visualize and narrate story							8,9	6,7
CO6	To pa	rticipate and disc	uss about a story and it	s cha	racter	and s	tory		10,11	7,8
	devel	opment		1	13					

MODULE - I

Introduction to story:

Introduction and Overview of story, Story concept discussion, Elements of story, Plot, Narration, film, story, TV, Cartoon film making, finding ideas, finding characters, finding life, basic elements of Story writing, setting, Plot, point of view, style, theme, literary Device.

MODULE - II

Elements of story:

What kinds of ideas can carry a story? How can you turn a wobbly idea into one that works? Narrative Elements and Tools, Narrative Genres, Story Source, Identifying Character, Story Beginnings, Conflict, Rising Action, Climax, Falling action, Resolution, Synopsis discussion, small group workshops Class discussion, Breakdown discussion, Treatment, discussion, small group workshops Class discussion.

MODULE - III

Identifying Voice, Point of view Narrators, Character development discussion small group workshops class discussion, Protagonist Biography, Poetics, Aristotle (with introduction by Francis Fergusson,

examples of Character script writing dialogues, talks, screen writing of narration.

MODULE - IV

We then consider character who does the story belong to? How do their desires, problems, and drives give the story its essential energy? Then we turn to story development and structure, the primary work of the course: how do you keep an idea alive for two-hundred pages, or two hours

MODULE - V

What elements help a story build energy and momentum, and deliver us to a satisfying close? We explore these essential story energies using writing exercises, examples from film and literature, and the shared experience of working writers. Preliminary Narrative Through line (Scene-By-Scene Outline), Scene by scene script writing: film story creation, TV, Cartoon film, Media, Visual story script Creation, script-based Story board making.

MODULE – VI

Script for an essay, elements of script writing, screen writing, structure of script, Script Uses. Story discussions, film story Various cartooning and Concept creation, TV, Cartoon film, Media, final project script, visual based Story, screenplay, Direction. Revised Narrative Through Line Workshop.

BOOKS RECOMMENDED

Text Books:

- 1. Robert Mc kee story winner, international moving, image book, Robert Mc keey,
- 2. Story (Methuen Film), Pundit Handiwari,1999

Reference books:

1. Story: Substance, Structure, Style, and the Principles of Screenwriting by Robert McKee

STD2020

2. The Way of the Storyteller by Ruth Sawyer

SEMES'	ΓER	Course Code	Course Title	L	Т	P/S	С	Int. Marks	Ext. Marks	Total Marks
Ι	AN21B1P1 Basic Drawing 0 1 6 7 50 Course Outcomes								50	100
Cos				POs	BTLs					
	The s	student will be a								
CO1	To be draw	ecome familiar v ing	f	1,2	1, 2					
CO2	To u	nderstand the us		3,4	1, 2					
CO3	To er	njoy the challen		5,6	1, 2					
CO4	To ci	reate drawings f		7,8	1, 2					

MODULE - I

Study of figures casted from basic forms (Materials: Clay, Cardboard, Wood ext...)

Head Study: Study of head shapes like Oval, Hexagonal, Squares, & Round, Study of different views like front, three quarter, side, draw eyes, Nose, Ears & lips.

MODULE - II

Study of Shape: Masses of the head, study of torso, column forms of the arms and legs, masses of the figure, perspective projection of the figures – fore shortening, Study from Nature: Insects, Birds, and Animals, Ponds, Rocks, Trees, Plants, Flowers, etc.

MODULE - III

Anatomy traditional and Realistic Approach: Basic Human figure protections of various age group

(Male/ Female), Fundamental Postures (Sitting, Standing, Walking) etc.

MODULE - IV

Introduction to Basic Perspective: Simple perspective explanation, One- and Two-point perspectives

- 1. The Complete Book of Drawing: Essential Skills for Every Artist Book by Barrington Barber,2004
- 2. Perspective Made Easy, Book by Ernest Ralph Norlina
- 3. Victor Petard

SEMES	S Marl						Int. Marks	Ext. Marks	Total Marks	
Ι		AN21B1P2	Modelling	ng 0 0 7 7 50 50						100
COs		Course Outcomes								BTLs
	The st	tudent will be able								
CO1		rstand ways of u to record the app	1,2	1, 2						
CO2	11.2	y ways of conveyi	e drawing	3,4	3, 5					
CO3		vse clay tools and ngs and creating a	n making	5,6	4, 5					
CO4		e imagination and culpture.	invention to repres	ent form	ı, textı	ure, ai	nd de	etail in a	7,8	5, 6

MODULE – I

History and Evolution of Pottery Clay Preparation Design, Fundamental Decoration and Firing in Pottery Knowledge of New materials Understanding the geometrical forms, and construction of the above mentioned by using clays, and mount board.

MODULE – II

Intersection and overlapping of different Geometrical shapes. Creating Spaces inside the different, Geometrical shapes. Sand painting, Sand miniatures, Two dimensional, 3Dimentional sand modules.

MODULE – III

Working with still life objective like Fruits, Vegetables, Vases, Human Body parts etc. Relief and Round Sculpture, modelling with clay, terra-cotta, carving in wood, stone, bronze casting, plaster or Paris and metal welding.

MODULE – IV

Rubber Mould, POP Mould, Fibre mould, Wax Mould, Projects: Product Designing & Development Combination of Different Techniques for moulding& Casting in 2-D & 3-D

BOOKS RECOMMENDED

1. Clay Modeling for Beginners: An Essential Guide to Getting Started in the Art of Sculpting Clay, Jeanie Hirsch, first published June 7, 2015.

2. The Craft and Art of Clay: A Complete Potter's Handbook 2nd Edition, By PETERSON Susan

SEMES	ГER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total		
						S		Marks	Marks	Marks		
Ι		AN21B1P3	Fundamentals of	1	1	5	6	50	50	100		
COs			Course Outcome	es					POs	BTLs		
	The st	tudent will be able										
CO1	Identi	fy ways of using	ind shape	1,2	1,0							
	to rec	record the appearance of designs in drawings.										
CO2	To un	derstand colour a		3,4	2, 5							
CO3	To Ex	ents: line,	5,6	4, 5								
	shape	and form, spac	e, colour, texture, m	oven	nent I	Princi	ples:	balance,				
	rhythr	n, emphasis, cont										
CO4	To cre	eate design eleme		7,8	4,6							

MODULE - I

Introduction:

Colour Basics: Light Colour, components of colour, contrast and value principles of pigment colours and light theory, tints, and shades, colour tones, key of colours, in Primary and secondary colours.

MODULE - II

Elements of Design, layout Principles of general elements, Line, Texture, Shape, Form, Value, Space, Colour an in-depth study of elements, principles, concepts. Typography design.

MODULE - III

Colour in Nature: study of different colour combinations with the help of nature. The differences between hue, value, and intensity, colour interaction Being able to see value separate from hue. Understanding the way colour interacts with other colours and its relative nature. Mixing the colour wheel, tints, tones, shades, and greying hues with complements. Colour Wheel: 24 steps colour wheel.

MODULE - IV

Principles of Compositional Design, Balance, Harmony, Contrast, Rhythm, pattern, and repetition

- 1. The fundamentals of creative Design, 2nd edition, Gavin Ambrose /Paul Harris,2003
- 2. Design Fundamentals, Notes on Visual Elements and Principles of Composition by Rose

Gonnella, Christopher J. Naiveté, Max Friedman · 2015

3. Fundamentals of Design and Manufacturing, By G. K. Lal, Nallagundla Venkata Reddy, Vijay Gupta, 2005.



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Ι		MC21B101	UHV-1 Induction Program (mandato AICTE)		2	0	0	0		-	-
COs			Course	e Outcome	Ś					POs	BTLs
	The unde smoo and u	The Student Induction Program (SIP) The 3-week Student Induction Program (SIP) is to prepare newly admitten indergraduate students for the new stage in their life by facilitating mooth transition from their home and school environment into the collect and university environment through various discussions and activities. The SIP has been formulated with specific goals to help students to: Become familiar with the ethos and culture of the institution (based									
CO1										NA	NA
CO2		Set a healthy daily routine, create bonding in batch as well as betw faculty members and students								NA	NA
CO3	and	an exposure to a understanding of re Nature				20			A	NA	NA
CO4		acilitate them in creating new bonds with peers and seniors company them through their college life and beyond								NA	NA
CO5	Overcome weaknesses in some essential professional skills – only for t who need it (e.g., Mathematics, Language proficiency modules)									NA	NA

hours

The purpose is to help develop a holistic perspective about life. A self-reflective methodology of teaching is adopted. It opens the space for the student to explore his/her role (value) in all aspects of living – as an individual, as a member of a family, as a part of the society and as a unit in nature. Through this process of self-exploration, students can discover the values intrinsic in them. The session wise topics are given below:

	Topic Title	Aspirations and Issues	Basic Realities (underlying
No			harmony)
1	Welcome and	Getting to know each other	Self-exploration
	Introductions		
2 and 3	Aspirations and	Individual academic, career	Basic human aspirations
	Concerns	Expectations of family, peers,	Need for a holistic
		society, nation	perspective
		Fixing one's goals	Role of UHV
and 5	Self-	Self-confidence, peer pressure,	Harmony in the human
	Management	time management, anger,	being
		stress Personality	
		development, self-	
		improvement	2
6 and 7	Health	Health issues, healthy diet,	Harmony of the Self and
		healthy lifestyle	Body
		Hostel life	Mental and physical
		Stature MC	health
8,	Relationships	Home sickness, gratitude	Harmony in relationship
9,		towards parents, teachers and	Feelings of trust,
10		others	respect gratitude,
and		Ragging and interaction	glory, love
11		Competition and cooperation	3//
		Peer pressure	
12	Society	Participation in society	Harmony in the society
13	Natural	Participation in nature	Harmony in nature/existence
	Environment		
14	Sum Up	Review role of education	Information about UHVII
		Need for a holistic perspective	course,
			mentor and buddy
15	Self-evaluation	Sharing and feedback	
	and Closure		

them through a healthy routine which includes exercise, games etc.

SIP Module 3: Familiarization of Department/ Branch and Innovation

This module is for introducing and relating the student to the institution/department/branch; how it plays a role in the development of the society, the state, region, nation, and the world at large and how students can participate in it.

SIP Module 4: Visit to a Local Area

To relate to the social environment of the educational institution as well as the area in which it is situated through interaction with the people, place, history, politics...

SIP Module 5: Lectures by Eminent People

Listening to the life and times of eminent people from various fields like academics, industry etc. about careers, art, self-management and so on enriches the student's perspective and provides a holistic learning experience.

SIP Module 6: Proficiency Modules

This module is to help fill the gaps in basic competency required for further inputs to be absorbed. It includes effort to make student proficient in interpersonal communication and expression as well as awareness about linguistic and thereafter NLP.

SIP Module 7: Literature / Literary Activities

Through the exposure of local, national, and international literature, this module is aimed at helping the student learn about traditional as well as contemporary values and thought.

SIP Module 8: Creative Practices

This module is to help develop the clarity of humanistic culture and its creative, joyful expression through practice of art forms like dance, drama, music, painting, pottery, sculpture etc.

SIP Module 9: Extra-Curricular Activities

This is a category under which things that are not placed in any of the above may be placed. Some clubs and hobby group may be made for each of the above categories, so that students may pursue them even after SIP.

The recommended hours to be allocated are given above. Depending on the available faculty, staff, infrastructure, playgrounds, class timings, hostellers, and day scholars etc., the timetable for these activities may be drawn up. Of course, colleges may conduct an inaugural function at the beginning of the SIP; and they may also conduct a celebratory closing ceremony at the end of the SIP. During the lockdown phase, appropriate care may be taken and some or all activities may be planned in distance-learning or on-line mode.

Implementation:

The institution is expected to conduct the 3-week SIP under the guidance of the Director/Principal or Dean Students or a senior faculty member. For this, the institution is expected to make an SIP Cell. The SIP Cell will be responsible for planning, and then implementation of the SIP.

Follow up:

An important part of the SIP is to associate one faculty mentor to every small group of about 20 students; and associate one senior student buddy to an even smaller groups of about 5 students for the guidance required for holistic development of the newly joined student throughout his/her time in the institution/college.

These activities are to be continued in the ongoing academic program along with other cultural activities through the Student Activity Cell (SAC).

The SIP is only the beginning of the interaction with newly joined students.



SEMESTER -II

SEMES	Course Code Course Title L T P/ S					C	Int. Marks	Ext. Marks	Total Marks	
II		AN21B2C1	History of Animation	4	0	0	4	50	50	100
COs			Course Outco	mes					POs	BTLs
	The s	tudent will be able								
CO1	To Ui	Understand the history and timeline of animation								1,0
CO2	To ide	entify different pr		3,4	2, 3					
CO3	To Co	To Compare different types of animation film medium								3,2
CO4		To Relate different film standards and identify the usage of different ransitions							7,8	3, 2
CO5	To co makir	o connect the difference between Indian and international animation film aking							8,9	4,0
CO6	To H	ypothesize the p <mark>r</mark> o	cess of TV series an	imatior	ı film	maki	ng		10,11	5,6
			9 % - T	o.		9	1			

MODULE - I

Introduction to Animation earliest of animation film 1888, standard picture film, History of Animation: shadow play, magic Lantern, animation before film, Trauma trope. Zoetrope, printed animation film, what is first animation in history, who created first character created for animation, father of animation, Disney firsts cartoon.

MODULE - II

Principles of Animation, main principles, Arch principles detailing, illusion of life, staging principles of animation, Key-frames, In-betweens, Cycles, Morphing, reference to take history of Australian films, New Zealand, India, and America.

MODULE - III

Types of Animation: Clay animation, Traditional animation, 3Danimation, Puppet/ toy animation, material animation. Why animation? To get rewarding careers in Entertainment Media, Feature Film, Television Episodes, Gaming, Web Animation, Ad agencies, E-Learning (Education).

MODULE - IV

Animation standards: Film theory - Definition, Frame rate, NTSE / PAL/Film speed/Conversion &

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calculation as per scene. Visual transition Devices, Cut, Fade In /Fade out Cross Dissolve, Wipe.

MODULE - V

Audio visual sessions: History of Walt Disney studios and in-depth study of its characters. Study of International and Indian animation films. Animation Movie show which should include making of the movie.

MODULE - VI

Workshop on Principles animation (follow through, slow in slow out, timings, anticipation) Workshop on TV animation in 1940, 1950, 1960, 1970Artistic short animations views. Assignment types of animation,

animation on TV, Cartoon. Indian animations, workshop on Fun cartoon, Movies and stories.

BOOKS RECOMMENDED

Text book:

- 1. The Animator's Survival Kit: A Manual of Methods, Principles and Formulas for Classical, Computer, Games, Stop Motion, and Internet Animators (FARRAR, STRAUS), Richard Williams, 2012.
- 2. The World History of Animation, Stephen Cavalier and Sylvain Chomet, 2011

Reference books:

3. The Walt Disney Film Archives. The Animated Movies 1921–1968. 40th Ed. (Multilingual Edition), Daniel KO the Schulte, 2020.

ESTD2020

4. Animation: A World History, Book by Giannal berto Bendazzi

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total	
						S		Marks	Marks	Mark	
										s	
II		AN21B2C2	Script Writing	3	0	0	3	50	50	100	
COs			Course Outcom	es					POs	BTLs	
	The student will be able										
CO1	CO1 To understand script writing										
CO2	CO2 To Demonstrate different camera angles and its application										
CO3	To an		3,6	3,2							
CO4	To Co	ting	5,6	4, 5							
			AV-A	1-2							

MODULE - I

Introduction to Screen writing, finding the story, how to format script, how to write a short out line, film and TV and cartoon cinema. The Craft and Technique of Scriptwriting. Begin a story, Dialog writing emotions, Novel writing and outline of Screen writing.

MODULE - II

Three act Structures, short out line script, exploring Character, dramatizing character, proper script formatting, Radio, Cinema, Drama, TV, Cartoon, and Conceiving: Story planning & producing for media production. Film analysis character and Plot, Indian and western films.

MODULE – III

Develop Three act structure, film grapy, character interviews, the role of Conflict Dialogue and descript vies, Develop Realistic Critiquing Skills, Concepts & techniques need for animation scripting, Evaluating & creating emotional connection with the audience, Skills for their own visual stories.

MODULE – IV

types of dialogue writing and Develop, Recognizable Verbal Language, Study of narrative storytelling, Dialogue, Point of view, Character development. Dialog writing: Emotional, dramatic, what is the format of dialogue writing? The seven rules of dialogue in MLA.

MODULE-V

How do you begin a story, Imagine, questions, background, surprising way of writing, how do short story: excitement, introduce character, memories, mystery? Tales of Heroes (Legend & Religious) Infuse story

& develop emotional connection, writing scene by scene, Joseph Can bell 'Hero's Journey '

MODULE - VI

Project: Cartoon stories Continuing Series, Comedy or Horror / Fantasy, Exercise of Dialog writing, how to write a dialogue between two character. Active learning: Character Development, Quiz:

BOOKS RECOMMENDED

- 1. Directing the Story: Professional Storytelling and Storyboarding Techniques for Live Action and Animation, Francis Lebas, 2008.
- 2. The Animator's Sketchbook: How to See, Interpret & Draw like a Master Animator, Tony white
- 3. Professional Storyboarding: Rules of Thumb, Sergio Paez, and Anson Jew, 201



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SEMES	TER	Course Code	Course Title	L	Т	Р/ S	С	Int. Marks	Ext. Marks	Total Marks			
II		CC21B2CS	Communication	2	0	0	2	50	50	100			
			Skills										
COs			Course Outcome	2S					POs	BTLs			
	The s	student will be ab	le										
CO1	On c	completion of the	e course, the students	sho	uld be	e able	e to l	isten to	NA	1,2			
	lectur	res, public annou	uncements and news of	n T	V and	1 radi	o. En	gage in					
	telep	honic conversatio	n										
CO2	To p	provide an adequa	NA	1,2									
	Lang	provide an adequate mastery of technical and communicative English NA 1,2											
CO3	То р	rovide an adequa	English	NA	1,2								
	Lang	uage reading skill	ls training	X	4	m							
CO4	To p	To prepare students for participation in seminars, group discussions, paper NA 1,2											
	prese	presentation and general personal interaction at the professional level.											
CO5	То ри	rovide an adequat	e mastery of creative wi	riting	skill	traini	ng, dif	ferent	NA	1,2			
	mode	es of writing, <mark>p</mark> roj	ect reports effectively.		S.			-					
CO6	To fa	miliarize students	s with different modes o	f ger	ieral a	ind ac	ademi	c	NA	1,2			
	writii	ng.	EST020	20	/		>	/					
			ावपा सर्वत्र		lee	//	/						
MODUI	LE – I			T	/								
Commu	nicatio	n: Importance of	Communication; Eleme	nts o	f goo	d indi	vidua	l commur	nication; o	rganizing			
oneself;	differe	ent types of comm	unication; Barriers in th	le pat	h of C	Comm	iunica	tion.					
MODUI	$\mathbf{E} - \mathbf{I}$	I											
Listenin	g skills	s: Listening to co	onversation and speeche	es (Fe	ormal	and	Inforn	nal) Read	ing: Tech	niques of			
reading,	skimm	ning, Scanning, So	Q3R technique										
MODUI	$\mathbf{L}\mathbf{E} - \mathbf{I}$	II											
~ .	XX 7	ne Coore of one	ative writing; Writing s	12:110	Ciant	actin	~ 0	lines De		X 7:4:			

report/ format of the report; Paragraph, Letter Writing, Essay writing, Memo, Cikedlar, Notice Cover Letter, Resume, writing with a thesis, Summary, Précis, Product description - Description of projects and

features Oral Report; Periodical Report; Progress Report; Field Report Preparation of minutes; Video conference; Tele conference / Virtual meeting

MODULE – IV

Speaking: How to converse with people, how to communicate

effectively; Language and grammar skills; Pronunciation drills, Phonetics, vowels,

Diphthongs, consonants, Stress, Rhythm and intonation, Conversational skills Features of effective speech-practice in speaking fluently-role play-telephone skills-etiquette.

MODULE-V

Short Extempore speeches-facing audience-paper presentation-getting over nervousness-Interview techniques-preparing for interviews - Mock interview. Body Language.

MODULE – VI

Impact of internet on communication; communication through computers; voice mail; broadcast messages; e-mail auto response, etc.

- C S Rayudu: Principles of Public Relations, Himalaya Publishing House
- Daniel Colman: Emotional Intelligence,
- English for Effective Communication. Oxford University Press, 2013.
- K. Ashwathappa: Organizational Behavior, Himalaya Publishing House
- Kenneth, Anderson, Tony Lynch, Joan MacLean. Study Speaking. New Delhi: CUP, 2008.
- Krishna Mohan & Meera Banerji: Developing Communication Skills Macmillan India
- Lynch, Tony. Study Listening. New Delhi: CUP, 2008.
- Marks, Jonathan. English Pronunciation in Use. New Delhi: CUP, 2007.

COs Course Outcomes POs BTL The student will be able 1,2 1,2 1,2 CO1 To identify and apply the 12 Animation Principles 1,2 1,2 CO2 To Summarize timing and motion through key-frames, holds and inbetweens 3,4 2,3 CO3 To illustrate principles of animation on objects 3,6 3,2	SEMES'	FER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
The student will be ableThe student will be ableCO1To identify and apply the 12 Animation Principles1,2CO2To Summarize timing and motion through key-frames, holds and in- betweens3,4CO3To illustrate principles of animation on objects3,6	II		AN21B2P1	50	50	100					
CO1To identify and apply the 12 Animation Principles1,21,2CO2To Summarize timing and motion through key-frames, holds and in- betweens3,42,3CO3To illustrate principles of animation on objects3,63,2	COs			POs	BTLs						
CO2To Summarize timing and motion through key-frames, holds and in- betweens3,42,3CO3To illustrate principles of animation on objects3,63,2		The st									
betweens 3,6 CO3 To illustrate principles of animation on objects	CO1	CO1 To identify and apply the 12 Animation Principles									
	CO2										
CO4To compare the importance of principles of animation7,84,5	CO3										3,2
	CO4	CO4 To compare the importance of principles of animation									4, 5

MODULE - I

Introduction of animation: History of Animation, Persistence of Vision, Early Animation Devices Principles of Animation, Key-frames, In-betweens, Cycles, Morphing: Overview, Animation Timeline.

MODULE - II

Principles of Animation, Timing and Spacing Charts, Squash and Stretch, Morphing (Basic Animation principles Concepts of 12 animation principles & their importance).

Bouncing Balls (Principles of Animation: Slow In, Slow Out, Squash and Stretch, Timing, Anticipation Visual Rhythm Transitions.

MODULE - III

Basic Animation- Key-framing (position/scale/rotation/opacity), Anchor Point, Creating Shapes, Motion Paths, using Markers, Importing Audio.

MODULE - IV

Key Drawing and assistance animation from story boarding to poses (layout staging), In-betweens and

Clean-ups, Review of Character Designs (online) Concepts of Design Composition of a scene,

- The Animator's Survival Kit: A Manual of Methods, Principles and Formulas for Classical, Computer, Games, Stop Motion, and Internet Animators (FARRAR, STRAUS), Richard Williams, 2012
- 2. The Illusion of Life: Disney Animation, Ollie Johnston, Frank Thomas ,1995
- 3. Sketching for Animation: Developing Ideas, Characters and Layouts in Your Sketchbook

(Required Reading Range), Peter Parr 2018

SEMES	TER	Course Code	Course Title	L	Т	P/ S	C	Int. Marks	Ext. Marks	Total Marks
II		AN21B2P2	Character	1	1	6	8	50	50	100
			Design							
COs			Course Outcom	nes					POs	BTLs
	The st	tudent will be able								
CO1	To un	derstand different	sketching techniques						1,2	1,0
CO2	To ap	ply cartoon chara	cters using basic shap	es					3,4	2, 3
CO3	To de	emonstrate cartoor	characters using line	of act	tion				5,6	3,2
CO4	То со	onstruct characters	using real life referer	ices	YC.				7,8	4, 2
CO5	To cre	To create caricatures and stylized characters To evaluate a model sheet for modelling in 3D							8,9	5,6
CO6	To ev	aluate a model <mark>s</mark> h		10,11	6,7					
				1	1	Ē	11			
MODU	LE - I		E San T		MC	60	1			
Introduc	tion, Sk	ketching Techniqu	es, Caricature	-4.				A		
Head Sh	apes an	id Eyes, Hair <mark>,</mark> Hea	d Tilts and Expressio	ns, Bo	dy Co	onstru	ction	1		
MODU	LE - II					/	X			
Basic sh	apes for	r cartoons Line of	action, Headlines, Ey	e line	(Head	d Rota	ation	s), Head P	roportions	5.
Body C	onstruc	tion, Hands, and	Feet, Posing, Using	g Ref	erence	e, Co	stum	e Design,	Cartoon	Animals,
Reviews	, Style,	and Versatility		T	/					
MODU	LE - III	Ι								
Characte	er Const	truction and Detai	l Study: Study of char	racter	as per	head	ratic	/ proportio	ons Refere	ence for
nature (t	rees, bi	rds, and animals)	Reference from objec	ts aro	und us	s (tabl	e lan	np, pencil,	book, hou	isehold-
items, ve	essels	etc.)								
MODU	LE - IV	7								
Develop	ing of	Existing and Ex	aggerated Character:	By u	using	the e	existi	ng charac	ters, mod	el sheets,

exaggerating the characters / Developing a new character modifying relist human features like hand and feet etc., Creating stylized characters

MODULE - V

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Character Model Sheets: Model sheet, Line-up of characters, Lip/ Mouth expressions, Gestures, and attitude sheets

- 1. Fundamentals of Character Design: How to Create Engaging Characters for Illustration, Animation & Visual Development,2020
- 2. Creating Stylized Animals: How to design compelling real and imaginary animal characters 2021



SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Marks
II		AN21B2P3	Story Boarding	1	0	6	6	50	50	100
COs		•	Course Outcome	es					POs	BTLs
	The st									
CO1	5 1									
CO2	To co	3,4	2, 3							
CO3	To de		3,6	3,2						
CO4	To an		7,8	4, 5						
			EGIUN	13						

MODULE - I

Introduction of Storyboarding, Importance of story boarding, Story boarding template and basics, Story boarding template and nomenclature, Types of story boarding,

MODULE - II

Camera Angles, shot and scene, Frame and duration, Visual storytelling, Film and

MODULE - III

Visual representation of story, Storyboard for animation, Digital storyboarding,

MODULE - IV

Dialogue, Story board template, Practical story board development, Incorporation of script in the

storyboard - Cartoon animation storyboard.

- 1. Directing the Story: Professional Storytelling and Storyboarding Techniques for Live Action and Animation, Francis LeBas, 2008.
- 2. The Animator's Sketchbook: How to See, Interpret & Draw like a Master Animator, Tony white
- 3. Professional Storyboarding: Rules of Thumb, Sergio Paez, and Anson Jew, 2012
| SEMES | | | | | | | | | Ext. | Total |
|-------|-------|---|--------------------------|---------|---------|--------|-------|-----------|-------|-------|
| | | | | | | S | | Marks | Marks | Marks |
| II | | MC21B101 Environmental 2 0 0 0 -
Science Dutcomes | | | | | | | | - |
| COs | | Course Outcomes | | | | | | | | BTLs |
| | The s | The student will be able | | | | | | | | |
| CO1 | To u | o understand the importance of environment and natural resources | | | | | | | 6,7 | 1, 2 |
| CO2 | | To acquire the knowledge on various principles of eco- systems and the
functions. | | | | | | | 6, 7 | 1, 2 |
| CO3 | | ain the knowled | lge on various principle | es, thr | eats, a | and co | onser | vation of | 6, 7 | 1, 2 |
| CO4 | | To understand the importance of national and international concern for
protection of environment from various pollutants | | | | | | | | 1, 2 |
| CO5 | To u | To understand various social Issues related to Environment | | | | | | | 6,7 | 1, 2 |
| CO6 | To u | nderstand the im | | 6, 7 | 1, 2 | | | | | |

MODULE - I

Environmental studies–Introduction: - Definition, scope, and importance, Measuring and defining environmental development indicators.

Environmental and Natural Resources: Renewable and non-renewable resources - Natural resources and associated problems - Forest resources - Use and over - exploitation, deforestation, case studies - Timber extraction, dams- benefits and problems.

MODULE - II

Basic Principles of Ecosystems Functioning: Concept of an ecosystem. -Structure and function of an ecosystem. - Producers, consumers, and decomposers. - Energy flow in the ecosystem Ecological succession. - Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure, and function of the following ecosystem:

- a) Forest Ecosystem
- b) Grassland Ecosystem
- c) Desert Ecosystem

d) Aquatic Ecosystem (Ponds, Streams, Lakes, Rivers, Oceans, Estuaries) **MODULE - III Biodiversity and its conservation:** Introduction – Definition- genetic, species and ecosystem diversity. Bio-geographical classification of India Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. - Endangered and endemic species of India. Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity **MODULE - IV** Environmental Pollution: Definition, Cause, effects, and control measures of a) Air pollution b) Water pollution c) Soil pollution d) Marine pollution e) Noise pollution f) Thermal pollution g) Nuclear hazards **MODULE - V** Social Issues and the Environment: From unsustainable to sustainable development -Urban problems related to energy -Water conservation, rainwater harvesting, and watershed management - Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents, and holocaust. Case Studies. – Waste land reclamation ESTD2020 **MODULE - VI** Human Population and the Environment: Population growth, variation among nations. Population explosion Role of information Technology in Environment and human health. - Case Studies. Field work: Visit to a local area to document environmental assets River /forest grassland/hill/mountain -Visit to a local polluted site-Urban/Rural/industrial/ Agricultural Study of common plants, insects, birds. -Study of simple ecosystems- pond, river, hill slopes, etc. **BOOKS RECOMMENDED** 1. Erich Barouche, A Textbook of Environmental Studies for Undergraduate Courses, University Grants Commission. 2. Perspectives in environmental Studies, Anubha Kai-shek and C P Kaushik, New Age International Publishers, New Delhi, 2018. 2. A Textbook of Environmental Studies, Shashi Chawla, McGraw Hill Education, New Delhi, 2017.

Reference Books:

- 1. Environmental Studies by Benny Joseph, McGraw Hill Education, New Delhi, 2017.
- 2. Fundamentals of environmental studies, Mahua Basu and S Xavier, Cambridge University Press, New Delhi, 2017.



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SEMESTER -III

III COs CO1 CO2	The stu To gain Softwa To Gai	n knowledge o are, types of Co in Knowledge	f a basic understanding omputers. Demonstrate	; of coi	0	4	5	50	50 POs	100 BTLs				
C O 1	To gain Softwa To Gai	n knowledge o are, types of Co in Knowledge	ble f a basic understanding omputers. Demonstrate	; of coi	npute		•	•	POs	BTLs				
	To gain Softwa To Gai	n knowledge o are, types of Co in Knowledge	f a basic understanding omputers. Demonstrate		npute	The student will be able								
	Softwa To Gai	are, types of Co in Knowledge	omputers. Demonstrate		To gain knowledge of a basic understanding of computer, hardware a									
C O2		-		proble	•				3,5	1, 2				
		of both printed	on to the creation, editi d and online or electron	UTR J			orage	, and	3,5	1, 2				
C O3			nowledge to operate sha nt & Paint 3D.	ades, h	ow to	use b	asic		3,5	1, 2				
C O 4	learnin	ng, Faster and r	present material in the c nore accurate decision zation and a lot more.		100	° .			3,5	1, 2				
C O 5			ing and learning experi	ence, j	power	ful too	ol foi	giving a	3,5	1, 2				
CO6	basics Anima	and to make a	ware of Office automat	ion usi	ng M	S- offi	ice,		3,5	1, 2				
MODUL	E - I													
Introduc	tion to	Basics of Con	nputers:											
Definitior	n of Co	mputers, Chara	acteristics of Computer	, Gene	ration	s of C	omp	uter, Blocl	k Diagram	of				
Computer	r, Prima	ary and Second	lary Memories, Input a	nd Out	put D	evices	s, Ha	rdware, So	oftware.					
MODUL	E - II													

MS Word - Word Processing – Features-Advantages and Applications- Parts of Word Window- Toolbar-Creating, Saving, Closing, Opening and Editing of a Document-Moving and Coping a Text-Formatting of Text and Paragraph- Bullets and Numbering-Find and Replace - Insertion of objects-Headers and Footers-

Page **40** of **90**

Page Formatting- Auto Correct-Spelling and Grammar- Mail Merge-

MODULE - III

Paint: File Menu, Image Options, Tools, Shapes, Colors, Clip Board, View Menu, Zoom, Display.

Paint 3D: Brushes, 2D Shapes, 3D Shapes, Stickers, Text, Effects, Canvas.

MODULE - IV

MS Excel: Features – Spread Sheet-Workbook – Cell-Parts of a window-Saving, Closing, Opening of a

Workbook – Editing – Advantages – Formulas- Types of Function-Templates – Macros – Sorting- Charts – Filtering.

MODULE - V

MS Power point:

Introduction - Starting - Parts-Creating of Tables- Create Presentation - Templates- Auto Content

Wizard-Slide Show-Editing of Presentation-Inserting Objects and charts

MODULE - VI

Animation:

Animation Transition, Working with Power point objects, Designing & presentation of a Slide Show,

/1

Printing Presentations with print options. (Lecture, Demonstration, Lab Practical

BOOKS RECOMMENDED

Text:

- 1. P. Mohan computer fundamentals- Himalaya Publications.
- 2. R.K. Sharma and Shashi K Gupta, Computer Fundamentals Kalyani Publications
- 3. Fundamentals of Computers by Balagurusamy, Mc Graw Hill

Reference books:

- 1. Computer Fundamentals Anita Goel Pearson India
- 2. Introduction to Computers Peter Norton
- 3. Fundamentals of Computers Rajaraman V Adabala N
- 4. Office 2010 All-in-One for Dummies Peter Weverka
- 5. MS-Office S.S. Shrivastava
- 6. MS-OFFICE 2010 Training Guide Prof. Satish Jain, M. Geetha, KratikaBPB

SEMES	TER	Course Code	Course Title	L	Τ	P /	С	Int.	Ext.	Total
									Marks	Marks
II	[AN21B3P2	3D Props & Sets Modeling	0	1	4	5	50	50	100
COs			Course Outcom	ies					POs	BTLs
	The st	Course Outcomes								
CO1	To un	derstand various	types of set models						1,2	2,3
CO2	To un	derstand proport	ons in model making	of mir	niature	es			3,4	3,4
CO3	To ap	To apply drawing knowledge for flow scenario and moving parts								5,6
CO4	To de	Fo develop characters in constructing a set Model step by step								6,7

MODULE – I

Introduction, various types of set models, Tools and materials, basic techniques,

MODULE – II

Architectural techniques and model making, Proportions

MODULE – III

Furniture and dressing, Miniatures, Colouring and texturing Miniatures for realism

MODULE – IV

Flow scenario and moving parts, people trees and other organic elements, digital techniques, displaying and presenting the model, constructing a set Model step by step

- 1. 3D modeling and painting with Tinkered create and paint, by James Floyd Kelly, 2014.
- 2. Handbook of model making of for Set designers, by Colin Winslow, 2015.
- 3. AutoCAD 20183d modeling, by Munir Harmad, 2017.
- 4. Automatic Reconstruction of textured 3d models, baptizer, Benjamin, 2015.

SEMES	ГER						Int.	Ext.	Total	
						S		Marks	Marks	Marks
III		AN21B3P3	50	50	100					
COs		Animation Course Outcomes							POs	BTLs
	The st	udent will be able)							
CO1	To un	derstand importan	ce of drawing for anim	natio	n				1,2	2,3
CO2	To app	ply drawing skills	to create character in r	notio	on				3,4	3,4
CO3	To app	To apply drawing knowledge for drawing animation in poses								5,6
CO4	To dev	velop characters in		7,8	6,7					

MODULE – I

2D Drawing for Perspective of 2D drawings: Design; understanding the character animation, effect animation, inking and background painting, they must also can draw a wide variety of subject matter in many different styles, Sketching

MODULE - II

2D Drawing for shadow perspectives: Render the rough layout, defining lines, shapes, and gradations and shading to create dimension. Character registration lines are indicated with red pencil. While the rest of the drawing is in black pencil

MODULE - III

Sketching basics, Sticky animation poses, Study of mannequin poses, Layout drawings, Background drawing

MODULE - IV

Anatomy study of human body, construction of human body, Quadruped and octopod, Life sketching

- The Complete Animation course by Chris Patmore, By Barons Educational Series (New York) Anatomy of the Artist – Thompson•& Thompson
- 2. Sketching for animation, Author Peter Parr
- Penguin Random House the Animator's Survival Kit 5 November 2009, by Richard E. Williams (Author)

- Animation for Beginners: Getting Started with Animation Filmmaking, 20 October 2021, By Morr Meroz (Author)
- 5. Andrew Loomis-Anatomy drawing
- 6. Dynamic Figure Drawing Burne Hogarth

SEMES	TER								Ext.	Total
						S		Marks	Marks	Marks
III		AN21B3P4	Graphic Design	1	1	4	5	50	50	100
COs		Course Outcomes							POs	BTLs
	The st	udent will be able)							
CO1	To un	derstand the inter	face and importance of	raste	er grap	ohics	softw	are	1,2	2,3
CO2	To exp	plain use retouchi	ng tools to edit images						3,4	4,3
CO3	To co	To compare effectively use multilayer image manipulation tools and filte								5,6
CO4	To cre	eate a digital paint		7,8	6,7					

MODULE - I

Introduction and Interface: Introduction to digital image editing: Raster Image • Vector Image • Image File Formats, Preferences: Recovery and undo • Memory and Performance • Image size and Resolution • Cropping and resizing

Cropping and resizing

Workspace: Interface Basic • Palettes and Menus • Tool Bar - Selection Tools, painting tools, Editing, and retouching tools • Text tools. • Ruler, Guides and Grids

MODULE - II

Retouching tools: Colour: Colour Mode, Colour Correction • Levels and Curves., Adjustment layers,

MODULE - III

Layers & Filters: Layers, Layer concept • Selecting, Grouping, and linking layers • Layer Effects • Layer

Mask, Smart layers.

Filters: Applying filters • Automating tasks - creating action

MODULE - IV

Material Study and Digital painting • Digital painting techniques, Photo restoration

- 1. Adobe Photoshop Bible cs5 by Lisa Danae Dayley, Brad Dayley --- Wiley India
- 2. Adobe Photoshop CS6 (Classroom in a Book), PEARSON Publications
- 3. Adobe Photoshop Classroom in a Book (2021 Release), Book by Andrew Faulkner and Conrad Chavez
- 4. Graphic Design Play Book: An Exploration of Visual Thinking, Sophie Cure, Barbara Seggio, 2019.

	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
III	ſ	AN21B3P5	Effects of	0	1	5 4	5	50	Marks	100
	L	AN21DJI J	Animation	v	-		5	50	20	100
									P 0	DAT
COs			Course Outco	omes					POs	BTLs
~ ~ 4		tudent will be able								
CO1		derstand principle							1,2	1,2
CO2	-		nciples to animate of	rganic e	lemer	nts			3,4	3,4
CO3	To De	esign animations f	for special effects						5,6	5,6
CO4	To an	alyse animations	effects	RE					7,8	6,7
U		nimation id: Splash Water,	Rain, tap water, wat	erfalls			F			
MODUI Elements Effects – Smoke	L E - II s – Air, - Explo	Magic spill, Air, sion Eff <mark>ects – F</mark> ire	Explosion, smoke, a Fluid Effects-Colou e Effects with flame	und dust uring- de s - Spac	esignii	ng Clo	ouds	Backgroun	nd – Desigr	ning Fog
MODUI Element: Effects – Smoke MODUI	L E - II s – Air, - Explor L E - II I	Magic spill, Air, sion Eff <mark>ects – F</mark> ire	Explosion, smoke, a Fluid Effects-Colou e Effects with flame	und dust uring- de s - Spac	esignin ee Effe	ng Clo	ouds i nd de	Backgroun signs- Des	nd – Desigr igning Thio	ning Fog ck
MODUI Elements Effects – Smoke MODUI Designir	L E - II s – Air, - Explos L E - II I ng Paint	Magic spill, Air, sion Effects – Fire I t Effects – Colour	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin	und dust uring- de s - Spac	esignin ee Effe	ng Clo	ouds i nd de	Backgroun signs- Des	nd – Desigr igning Thio	ning Fog ck
MODUI Elements Effects – Smoke MODUI Designin seasons –	L E - II s – Air, - Explos L E - II ng Paint – Effect	Magic spill, Air, sion Effects – Fire I t Effects – Colour ts on seasons- Des	Explosion, smoke, a Fluid Effects-Colou e Effects with flame	and dust uring- de s - Spac	esignin e Effe	ng Clo ects ar	ouds ind dea	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath	ning Fog ck ner and
MODUI Elements Effects – Smoke MODUI Designin seasons –	L E - II s – Air, - Explor L E - II ng Paint – Effect ng Diffe	Magic spill, Air, sion Effects – Fire I t Effects – Colour ts on seasons- Des erent glass reflecti	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin signing Glass image	and dust uring- de s - Spac	esignin e Effe	ng Clo ects ar	ouds ind dea	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath	ning Fog ck ner and
MODUI Element Effects – Smoke MODUI Designin seasons – Designin MODUI	LE - II s – Air, - Explos LE - III ng Paint – Effect ng Diffe LE - IV	Magic spill, Air, sion Effects – Fire t Effects – Colour ts on seasons- Des erent glass reflecti	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin signing Glass image	and dust uring- de s - Spac ag Trees	esigning the Effe and g s – Lie	ng Clo ects ar	ouds ind dealers	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath ection desig	ning Fog ck der and gn
MODUI Element Effects – Smoke MODUI Designin seasons – Designin MODUI	LE - II s – Air, - Explose LE - III ag Paint - Effect ag Diffe LE - IV ag Spec	Magic spill, Air, sion Effects – Fire t Effects – Colour ts on seasons- Des erent glass reflecti 7 ial Effects – Desi	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin signing Glass image on- Designing Glow	and dust uring- de s - Spac ag Trees	esigning the Effe and g s – Lie	ng Clo ects ar	ouds ind dealers	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath ection desig	ning Fog ck der and gn
MODUI Elementa Effects – Smoke MODUI Designin seasons – Designin MODUI Designin Clothes a	LE - II s – Air, - Explor - Explor ng Paint – Effect ng Diffe LE - IV ng Spec and effe	Magic spill, Air, sion Effects – Fire t Effects – Colour ts on seasons- Des erent glass reflecti 7 ial Effects – Desi	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin signing Glass image on- Designing Glow	and dust uring- de s - Spac ag Trees	esigning the Effe and g s – Lie	ng Clo ects ar	ouds ind dealers	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath ection desig	ning Fog ck der and
MODUI Elementa Effects – Smoke MODUI Designin seasons – Designin MODUI Designin Clothes a BOOKS	LE - II s – Air, - Explore LE - III ng Paint – Effect ng Diffe LE - IV ng Spec and effect	Magic spill, Air, sion Effects – Fire I t Effects – Colour ts on seasons- Des erent glass reflecti 7 ial Effects – Desi ects	Explosion, smoke, a Fluid Effects-Colou e Effects with flame ing paints- Designin signing Glass image on- Designing Glow	and dust uring- de s - Spac ag Trees	esigning the Effe and g s – Lie	ng Clo ects ar	ouds ind dealers	Backgroun signs- Des ts – Design	nd – Desigr igning Thio ning Weath ection desig	ning Fog ck eer and gn

SEMES	STER	Course Code	Course Title	L	Т	Р/ S	C	Int. Marks	Ext. Marks	Total Marks
II	I	AN21B3P6	Digital Painting	0	1	2	3	50	50	100
COs			Course Outcom	nes					POs	BTLs
	The s	tudent will be able	2							
CO1	To id	entify an understa	anding of the element	ts of d	lesign	(line	, valı	ie, space,	1,2	1,2
	textu	re, perspective, an	d colour theory).							
CO2	To co	ompare the ability	to communicate in a v	visual	sketcł	1.			3,4	2,3
CO3	To il	llustrate utilize a	nimation tools for	creati	ng co	omple	ex di	gital 2D	5,6	3,4
	anima	ation	FCTU	RE						
CO4	To de	emonstrate the use	of a computer as anot	ther an	tistic	medi	um ir	addition	7,8	5,6
	to the	traditional mediu	ms of sketching, pain	ting, p	hotog	raphy	y, etc.			
				1	11	11				
MODU	LE - I		2 3		10					
Introduc	ction		20/7-	3	MC .	2	1			
			at is it? What types of	f jobs :	are av	ailab	le to d	digital arti	sts?	
MODU			NIVE	.er	n l			1		
-			Digital landscape pa		g Digi	ital p	ortrai	it, Digital	memory	Drawing
-		dy painting	ESTD2	020			2	/		
MODU			स्रथंत्र		1100		/	1.0	~ 1	
			nd Stroke Path Comm					-		
_			un inspired by the drading techniques, and	_					The proje	ct utilizes
MODU			lung teeninques, and	the st	ioke p			anu.		
			Art using Custom I	Brushe	s Str	oke	Path	Command	and Pai	nting and
v	0	1	reate an original vehic							U
	-	exercises and min	-		i o po					
-		OMMENDED								
			lete beginner, Book by	y Carli	in bre	ccias,	2012	2.		
-	-	•	Aided Concentual Da						november	2020

2. Digital Sketching: Computer-Aided Conceptual Design, Book by John Baucus, 24 november, 2020.

SEMES	TER	Course Code	Course 7	Fitle	L	Т	P/S	С	Int.	Ext.	Total
		AN21B3K1Skill Oriented0022100Course 1(UI) </td <td>Marks</td> <td>Marks</td> <td>Marks</td>							Marks	Marks	Marks
III		AN21B3K1	Skill	Oriented	0	0	2	2	100	0	100
		AN21B3K1 Skill Oriented Course 1(UI) 0 0 2 2 100 Course 1(UI) I									
Cos			Cou	arse Outcon	nes					POs	BTLs
	The	student will be ab	le								
CO1	To u	nderstand the im	portance o	of UI and U	X de	sign i	n maki	ng in	teractive	10	2
	conte	To understand the importance of UI and UX design in making interaction content									
				FETU	RE						

The student should learn any online course from a recognised online course related to UI



SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
SLINES	LIN	course coue	course mite		-	S	Ŭ	Marks	Marks	Marks
III		MC21B301	Indian	2	0	0	0	-	-	-
			Constitution							
COs				POs	BTLs					
	The	student will be a								
CO1	to Kı	now the backgro		6,7	1, 2					
CO2	to Ui	nderstand the wo		6,7	1, 2					
CO3	to Ga	ain consciousnes		6,7	1, 2					
CO4	to u	nderstand the	functioning and distrib	ution	of	financ	cial	resources	6,7	1, 2
	betw	een the centre a	nd states.	1	C					
CO5	Be ex	xposed to the rea	al <mark>it</mark> y of hierarchical India	n soc	ial str	ucture	e and	the	6,7	1, 2
	ways	the grievances	of the deprived sections c	an bo	e addr	essed	to ra	ise		
	huma	an dignity in a d	emocratic way.		E					
CO6	To understand the international relations of India with the surrounding							ing	6,7	1, 2
	coun	countries								
			INITED	or	2					
MODUI	LE - I	1		0			$\langle \rangle$	1		

Evolution of the Indian Constitution: 1909 Act, 1919 Act and 1935 Act. Constituent Assembly: Composition and Functions; Fundamental features of the Indian Constitution.

MODULE - II

Union Government: Executive-President, Prime Minister, Council of Minister

State Government: Executive: Governor, Chief Minister, Council of Minister

Local Government: Panchayat Raj Institutions, Urban Government

MODULE - III

Rights and Duties: Fundamental Rights, Directive principles, Fundamental Duties

MODULE - IV

Relation between Federal and Provincial units: Union-State relations, Administrative, legislative, and Financial, Inter State council, NITI Ayog, Finance Commission of India

MODULE - V

Statutory Institutions: Elections-Election Commission of India, National Human Rights Commission, National Commission for Women

MODULE - VI

India's External Relations: Cold War and Post-Cold War era. What is Foreign Policy? Basic Determinates of Foreign Policy Indian and its Neighbours India's Extended Neighbourhood in West Asia and Southeast Asia. India's relations with the United States and Russia. India and the World Organisations India in the 21st century.

- 1. D.D. Basu, Introduction to the constitution of India, Lexis Nexis, New Delhi
- 2. Subhash Kashyap, Our Parliament, National Book Trust, New Delhi
- 3. Peu Ghosh, Indian Government & Politics, Prentice Hall of India, New Delhi
- 4. B.Z. Fadia & Kuldeep Fadia, Indian Government & Politics, Lexis Nexis, New Delhi



SEMESTER -IV

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Marks
IV	AN21B4P1Character114550								50	100
COs	Course Outcomes									BTLs
	The st	tudent will be able	2							
CO1	To un	derstand the impo	ortance of body dynan	nics to	anim	ate ch	aract	ters	1,2	1,2
CO2	To ap	ply Animate bipe	d characters using trac	ditiona	al anin	natior	tech	niques	3,4	3,4
CO3	To an techni	•	Quadruped character	rs usin	ng tra	aditio	nal a	nimation	5,6	5,6
CO4	To design Animate Octopod characters using traditional animation 7,8 6,7 techniques 7,8 6,7									
	A LANCE									
MODUI	LE - I		C and got.	0.2		3				

Introduction, Sketching Techniques, Caricature, head shape and Eyes, Ha, head tints and expressions, creating straight ahead & pose to pose animation for biped characters. Creating straight-ahead & pose to pose animation for quadruped characters.

MODULE - II

Creating straight ahead& pose to pose animation for octopod characters, creating a single character animation in flip book animation, body constructions, body construction hand and feet, posing,

MODULE - III

The secondary action such as the movement of hair or cloth etc. Dope sheet, expose sheet / x-sheet, using reference, Costume design, cartoon animals, style and versatility,

MODULE - IV

Final project, Character style guide, FLA, SWF, animations, Animation movies

BOOKS RECOMMENDED

 Animation from pencils to pixels: classical techniques for digital animators, Tony White ISBN-10: 0240806700; ISBN-13: 978-0240806709

SEMES	TER	Course Code	Course Title	L	Т	Р/ S	С	Int. Marks	Ext. Marks	Total Marks
IV		AN21B4P2	Graphic Design II	1	1	3	5	50	50	100
COs				POs	BTLs					
	The st	tudent will be able								
CO1	To un	derstand the inter	ware	1,2	1,2					
CO2	To de	monstrate curve to	ools for creating symbo	ols ar	nd icon	ns			3,4	3,4
CO3	To an	alyse logos and ty		5,6	5,6					
CO4	To cre	eate complex illus		7,8	6,7					
			REGIUM	E	3					
MODUI	LE - I		A. 2 -	50	X					
		-	Introduction to the 2D tion, and Interface	Vect	or Gra	aphics	5			
MODUI	LE - II		2	7	10	15	Π			
Curve to	ols usir	ng curve tools fo <mark>r</mark>	creating basic shapes a	nd co	omple	x shaj	p <mark>es</mark> u	sing Boole	ean operat	ions.
MODUI	LE - III			1-4-		7/		4		
Effects a	und Filters							1		
Logo De	esigning: Designing logos using shape tools									
Typogra	phy for	its, italic, ob <mark>lique,</mark>	and small caps, Serifs	, Slal	Serif	fs, Sai	ıs Se	rifs, Scrip	ts, Novelty	y, Type
Applicat	ions, lo	go.	्र सर्वत्र			/				

MODULE - IV

Character Illustration, Isometric illustrations, Designing Brochures and print materials

- 1. Adobe Illustrator CC for Dummies
- 2. Adobe Illustrator Classroom in a Book
- 3. Learn Adobe Illustrator CC for Graphic Design and Illustration

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Marks
IV		AN21B4P3 2D Portfolio 0 0 5 5 100							0	100
COs		Course Outcomes							POs	BTLs
	The st	The student will be able								
CO1	To cla	he student will be able o classify the ideas visually							1,2	1,2
CO2	To ex	plain student wor	k in teams						3,4	2,3
CO3	To illu	ustrate and analys	e the portfolio						5,6	3,4
CO4	To create a portfolio								7,8	5,6
Portfolio)	TEGIURE AN								

- **2D** Artistic Integrity: Using photographs for source information in the service of their own vision is permitted only in rare situations. Occasionally, the use of one's own photographs is unavoidable if drawing a subject from direct observation is too dangerous or difficult.
- 2DHomework as in any college-level course, it is expected that students will spend a considerable amount of time outside the classroom working on completion of assignments. Ideas for projects or solutions to problems should be worked out in a sketchbook both in & out of class Group
- 2D Open Studio: students may come into the art room to work on assignments during their study landscape, painting, class works (with the teacher's approval).
- Sketchbook: 20% -story board, script works, principles of animation work Must show evidence of decision making and documentation of informed and critical decision making, written critiques and reactions to art created by self, established artists and peers, and documentation of a coherent plan of investigation for concentration.
- **Class Participation: 40%** Must demonstrate daily effort and time on task in & out of class, active engagement in discussion and critiques, and completion of artist article reflections.
- **Portfolio: 40%** Includes class projects and outside assignments demonstrating successful engagement with concepts of Breadth, Quality, and Concentration. Project grades are based on the project rubric. Students do a self-evaluation using the rubric and submit it with their project.
- **Portfolio Exhibition** At the conclusion of the College works.
- Work in a sketchbook. Draw/write/paint/collage in it. Fill one-fourth of your sketchbook. 2. Complete "Object Series" Project. Incorporate a selected object into three completely different

compositions. The object must be drawn from direct observation. All three compositions must have relationship with each other. Pieces can be no smaller than 9"x 12" and no larger than 12"x 18". of three / four students

1. Submission of 30 to 60 seconds 2D animation Film of a chosen subject giving equal importance to all the elements in cell or key frame animation with sound.

2. The Digital Art, Animation, CG, Motion-Graphics & VFX Industries works.



SEMES'	TER	Course	Course	L	S/F	P /	С	Int.	Ext.	Total
		Code	Title			Τ/		Marks	Marks	Marks
						0				
IV	,	AN21B4P4	Motion	1	1	3	5	50	50	100
			Graphics							
COs			Course C	outco	omes				POs	BTLs
	The st	tudent will be ab	le							
CO1	Under	rstanding the	concepts	of	Motio	on Graj	phics		1,3	2,4
CO2	Under	rstanding Variou	s Tools.						3,4,5	2,4
CO3		ing a Shape and ' pts like Masking		on a	nd und	lerstan	ding the	e various	3,4	3,6
CO4	Apply Anim	ving the Track M ation.	attes Concep	ts an	d effe	cts and	Presets	s and 3D	3,4,5	3,6
MODUI	F-I		S S	Į		Ţ				
			H 22		7-1		C 2			
	Grapł	nics: Introduction	on to Motion	Gr	aphics	and	its usa	ge and int	troduction	to animation
rinciples				17		e II			1	
Introdu	ction t	o Adobe After	Effects and	Bas	ics- W	orkspa	ace, Im	porting an	<mark>d</mark> organizi	ng the media,
Renderin	ıg.	$\langle \langle$		ES	1020	20	/	>/		
AE Teri	ninolog	gies: Compositio	on, Key Fram				ers, Tin	necode, Re	ender, code	ec and Format
etc.,				-	1.25	-	/			
MODUI	Е П			-						

Introduction to Interface of the Software - Timeline Structure of Layer Based Compositing Software - Stacking and Editing Layers – Controlling Speed and Time Remapping–Animating with Key Framing.

Adobe After Effects Tools: Introduction to Various Tools like, Selection Tool, Hand Tool, Zoom Tool,

Rotation Tool, Pan behind Tool, Roto Brush Tool, Pen Tool, Puppet Tool, Clone Stamp Tool etc.,

MODULE - III

Shapes Animation: Introduction to shape layer and its properties and animating shape layers using various options like : Trim paths, Zig Zig, Merge Paths, etc.,

Text Animation: Making a Typography Animation using various Animate options like: Position, Scale, Tracking, Fill Color etc., and Introduction to the Masking Concept.

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MODULE - IV

Track Mattes: Introduction to Track Mattes, Parenting & Link and Blending Modes and Motion Path Techniques

Effects & Presets: Applying the Effects & Presets Like CC Sphere, Radio Wave and CC Starburst

Introduction to 3D: Working in 3D Space and Animation Techniques.

BOOKS RECOMMENDED

Adobe After Effects Classroom in a Book (2018 release).

The Animator's Survival Survey Kit, Richard Williams.



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SEMES	ГER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Mark
										S
IV		AN21B4P5	Fundamentals	1	0	5	6	50	50	100
			of 3D							
COs			Course Outcome	es					POs	BTLs
	The st	udent will be able								
CO1	To un	derstand basic cor	acepts of 3D modelling	g and	Textu	ıring			1,2	1,2
CO2	To mo	odel props which a	re topologically correct	ct					3,4	2,3
CO3	To cre	eate 3D objects for	deforming animation	6					5,6	3,4
CO4	To un	derstand unwrapp	i <mark>ng</mark> and texturing prop	s for	anima	ation			7,8	5,6

MODULE - I

Introduction to3D Software, Introduction to the 3D software, Interface of 3D software, navigation tools, shading methods, what is prop, needs and mean safety shop space

MODULE - II

Creating NURBS Models, NURBS Curves, Revolving, lofting, and extruding curves to create surfaces, attaching, and detaching surfaces, socking, stitching surfaces. Modelling using polygons, creating polygon primitive objects, polygon components, editing polygon surfaces, combining, and separating polygons. Polygon Prop modelling, creating polygon prop models, Understanding topology

MODULE - III

Unwrapping and Texturing Props, Unwrapping method, Automatic Mapping, Planar Mapping, Cylindrical mapping, Spherical mapping,

MODULE - IV

Creating surface camera-based mapping, Texturing props using images. Texturing deformable characters. Procedural texturing.

- 1. 3D Art essentials Ami chopine
- 2. Mastering Autodesk Maya 2015: Autodesk Official Press
- 3. Autodesk Maya 2020: A Comprehensive Guide, 12th Edition
- 4. First Lessons in Autodesk Maya® 2019: Level 1 Absolute Beginner Tutorials 1 5

SEMESTE	R Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
					S		Marks	Marks	Marks
IV	AN21B4O1	Principles of Animation (Open Elective-1)	0	0	2	2	100	0	100
CO		,						DO	DTL
COs		Course Outco	omes					POs	BTLs
	The student will be	able							
CO1	To identify and app	bly the 12 Animation l	Princi	ples				1,2	1,2
CO2	To Summarize tim	ing and motion throu	gh ke	y-fran	nes, h	olds	and	3,4	2, 3
CO3	To illustrate princip	oles of animation on o	bjects					3,6	3,2
CO4	To compare the im	portance of principles	of an	imatio	n			7,8	4, 5

MODULE - I

Introduction of Principles of Animation: History of Animation, Key-frames, In-betweens, Cycles,

Morphing: Overview, Animation Timeline.

MODULE - II

Principles of Animation, Timing and Spacing Charts, Squash and Stretch, Morphing (Basic

Animation principles Concepts of 12 animation principles & their importance).

MODULE - III

Bouncing Balls (Principles of Animation: Slow In, Slow Out, Squash and Stretch, Timing, Anticipation

Visual Rhythm Transitions.

MODULE - IV

Basic Animation- Key-framing (position/scale/rotation/opacity), Anchor Point, Creating Shapes,

Motion Paths, using Markers, Importing Audio.

BOOKS RECOMMENDED

1. Cartoon Animation by Preston Blair

	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Marks
IV		AN21B4K1	Advanced communication skills (Skill oriented Course-2)	0	2	0	2	100	-	100
COs			Course Outcome	s					POs	BTLs
	The	student will be a	ble							
CO1	To d	evelop various e	elements of soft and effect	tive c	comm	unicat	tion s	kills.	9, 10,	2, 3, 6
			ECTU/	13					12	
Advanc	ed con	nmunication sk	il <mark>ls</mark> (including laborator	y)						
The stud	lent m	ust learn Soft s	kills and Advanced con	ımuı	nicati	on sk	ill <mark>s</mark> (:	including	g laborator	ry) which
can be d	ealt by	course instructo	or allotted by the departm	ent h	head					
Suggest	ed Inn	ut Learnings:			icau.	5				
> A Note:	Soft sk • • • • • • • • • •	JAM Oral Presentation Group Discussion Debate Role Play ced Communic Listening Skills Note Taking/Note Resume/CVV w PPT slides Interview Skills	on on ation Skills Laboratory: ote making	spea	king	ssions	s, per	formance	, viva voce	e etc.
> A Note:	Soft sk	ills: JAM Oral Presentation Group Discussion Debate Role Play ced Communica Listening Skills Note Taking/Not Resume/CVV w PPT slides Interview Skills	on on ation Skills Laboratory: ote making vriting - Mock Interview/ Public	spea	king	ssions	s, per	formance	, viva voce	e etc.
➤ S Note: Marks c Total matrix	Soft sk Advan an be a arks:10	ills: JAM Oral Presentation Group Discussion Debate Role Play ced Communica Listening Skills Note Taking/Not Resume/CVV w PPT slides Interview Skills	on on ation Skills Laboratory: ote making vriting - Mock Interview/ Public	spea h as s	king		s, per	formance	, viva voce	e etc.
► S Note: Marks c Total matrix ► S	Soft sk Advan an be a arks:10 50M - 1	ills: JAM Oral Presentation Group Discussion Debate Role Play ced Communic Listening Skills Note Taking/Not Resume/CVV w PPT slides Interview Skills warded based of 00 Day to day perform	on on ation Skills Laboratory: ote making vriting - Mock Interview/ Public n internal assessment suc	spea h as s	aking submi	&	-			

SEMES'	TER Course Code	Course Title	L	Т	P/ S	C	Int. Marks	Ext. Marks	Total Marks
IV	MC21B401	Essence of Indian Traditional Knowledge (AICTE)	2	0	0	0	0	0	0
COs		Course Outcome	es					POs	BTLs
	The student will be a	ble							
CO1	To Identify the conce	ept of Traditional knowled	dge a	ind its	impo	ortanc	e.	6,7	1, 2
CO2	To Explain the n knowledge.	eed for and important	ce o	of pro	otectii	ng ti	raditional	6, 7	1, 2
CO3	To Illustrate the var knowledge.	io <mark>us</mark> enactments related t	o the	e prote	ection	of t	raditional	6, 7	1, 2
CO4	To Interpret the con knowledge.	cepts of Intellectual prop	5	to pro	otect	the t	raditional	6, 7	1, 2
CO5	To Explain the imp Medicine.	ortance of Traditional k	nowl	ledge	in A	gricu	lture and	6, 7	1, 2
CO6	To understand the imp	ortance of Indian ancient ed	lucati	on sys	tem ar	nd ber	nefits	6,7	1, 2
	1	EST020	20	/		\geq	/		

MODULE - I

Introduction to traditional knowledge: Define traditional knowledge, nature and characteristics, scope and importance, kinds of traditional knowledge, Indigenous Knowledge (IK), characteristics, traditional knowledge vis-a-vis indigenous knowledge, traditional knowledge Vs western knowledge traditional knowledge.

MODULE - II

Legal framework and TK: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Plant Varieties Protection and Farmer's Rights Act, 2001 (PPVFR Act); The Biological Diversity Act 2002 and Rules 2004, the protection of traditional knowledge bill, 2016.

MODULE - III

Protection of traditional knowledge: The need for protecting traditional knowledge Significance of TK Protection, value of TK in global economy, Role of Government to harness TK.

MODULE - IV

Traditional knowledge and intellectual property: Systems of traditional knowledge protection, Legal concepts for the protection of traditional knowledge, Patents and traditional knowledge, Strategies to increase protection of traditional knowledge.

MODULE - V

Traditional Knowledge in Different Sectors: Traditional knowledge and engineering, Traditional medicine system, TK in agriculture, Traditional societies depend on it for their food and healthcare needs, Importance of conservation and sustainable development of environment, Management of biodiversity, Food security of the country and protection of TK

MODULE - VI

Education System in India: Education in ancient, medieval, and modern India, aims of education, subjects, languages, Science and Scientists of Ancient India, Science and Scientists of Medieval India, Scientists of Modern India.

BOOKS RECOMMENDED

Textbooks:

- 1. Traditional Knowledge System in India, by Amit Jha, 2009.
- 2. Narain, "Examinations in ancient India", Arya Book Depot, 1993
- 3. Satya Prakash, "Founders of Sciences in Ancient India", Vijay Kumar Publisher, 1989
- 4. M. Hiriyanna, "Essentials of Indian Philosophy", Motilal Banarsidass Publishers, ISBN 13: 978-8120810990, 2014

Reference Books:

- 1. "Knowledge Traditions and Practices of India" Kapil Kapoor1, Michel Danino2.
- 2. "Science in Sanskrit", Samskrita Bharti Publisher, ISBN 13: 978-8187276333, 2007
- 3. Kapil Kapoor, "Text and Interpretation: The India Tradition", ISBN: 81246033375, 2005
- 4. "Science in Sanskrit", Samskrita Bharti Publisher, ISBN 13: 978-8187276333, 2007
- 5. NCERT, "Position paper on Arts, Music, Dance and Theatre", ISBN 81-7450 494-X, 200
- 6. Narain, "Examinations in ancient India", Arya Book Depot, 1993
- 7. Satya Prakash, "Founders of Sciences in Ancient India", Vijay Kumar Publisher, 1989
- 8. M. Hiriyanna, "Essentials of Indian Philosophy", Motilal Banarsidass Publishers

SEMESTER -V

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Marks
V		AN21B5P1	3D Inorganic Modelling and	1	1	5	5	50	50	100
			Texturing							
COs			Course Outcome	es					POs	BTLs
	The s	tudent will be able	2							
CO1	To un	derstand concepts	of inorganic modelling	g					1,2	1,2
CO2	To cr	eate aesthetically	pleasing models	Y	0				3,4	2,3
CO3	To an	alyse the correct r	nesh flow for the mode			2			5,6	3,4
CO4	To ap	ply unwrapping <mark>t</mark> e	echniques on complex 1	10n-0	leforn	nable	obje	cts.	7,8	5,6
			5	1	10		1			
MODU	LE - I			K	MC .	Ä	1			

Introduction to inorganic modelling, Modelling complex objects in 3D. Polygon tools NURBS tools, Surface modelling

MODULE - II

Modelling Vehicle / Robot, understanding clean topology, Quads and triangles, Booleans, Clean-up mesh, non-manifold geometry.

MODULE - III

Texture resolutions, Hyper shade, Texture nodes, Procedural texturing, Texturing hard surface models.

Understanding texture sets, Texture

MODULE - IV

Creating surface camera-based mapping, Texturing props using images. Texturing deformable characters. Procedural texturing

- 1. Modeling and texturing techniques with Maya and Mud box, Author Michel Ingrassia, 2009
- 2. 3D Automotive Modeling, an insider s guide to 3d car modeling and designing for games, and films. Author, Andrew Gahan, 2011.

SEMES	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
V		AN21B5P2	Lighting and Rendering	1	1	5	5	50	50	100
COs			Course Outcome	es					POs	BTLs
	The st	udent will be able								
CO1	To un	derstand concepts	of lighting						1,2	1,2
CO2	To cre	eate a lighting setu	p based on the scene						3,4	2,3
CO3	To un	derstand light phy	vsical properties and pr	actic	al uses	s			5,6	3,4
CO4	To ap	ply the concept of	lighting to create an a	esthe	tically	y pleas	sing	scene	7,8	5,6

MODULE - I

Introduction to lighting. what is the shadow-casting lights? what are the different types of shadows? what is shadow map camera? how to reuse the shadows?

MODULE - II

Lighting with mental ray. What in meant by indirect lighting? What is global illumination? What is indirect illumination? Understanding final gathering, image-based lighting, physical sun and sky, mental ray area lights, light shades. Understanding the computer-generated lighting. How create depth map and ray traced shadows? How to soften or shape the shadows? Learning to apply physical and portal shades

MODULE - III

Understanding the computer-generated lighting. How to apply depth of field with the bokeh shade? Using lighting with caustic settings. How to split a scene in render layers? How to compare render passes and render layers? Mental ray shading techniques. What are the basic mental ray shades? Understanding mental ray for Maya nodes. What are the mental ray shade connections? How to add a contour to a scene? Creating Lights: Creating various types of lights, light properties, understanding light attributes, direct and indirect lighting, using maps on light attributes, break light links, make light links

MODULE - IV

Working with Shadows: Understanding visual functions of shadow, shadow algorithms, depth-map

shadow, ray traced shadow, soft shadows, hard shadows, faking shadows

Illuminating 3D scenes: Using various lights to illuminate scenes, day lighting, night lighting, adding fog

to environments, light glows, indoor and outdoor lighting, diffused lighting, 3-point lighting, key light, fill light and back light

BOOKS RECOMMENDED

- 1. Advanced Maya Texturing and Lighting Paperback Illustrated, Lee Lanier (Author) 2015.
- 2. Advanced Maya Texturing and lighting, author: Lee Lainer, 2008



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SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Mark
										s
V		AN21B5P3	Rigging and	1	1	5	5	50	50	100
			Skinning							
COs			Course Outcon	nes					POs	BTLs
	The s	tudent will be able	2							
CO1	To un	derstand concepts	s of Rigging						1,2	1,2
CO2	To ap	ply rig an inorgar	ic prop or vehicle wi	thout j	oints				3,4	2,3
CO3	To un	derstand the conc	epts of animation and	d anim	ation t	ools			5,6	3,4
CO4	To an	imate an inorgani	c prop using animation	on prin	ciples				7,8	5,6

MODULE - I

Introduction to rigging, Pipeline of rigging,

MODULE - II

Tools or rigging – Grouping, Parenting, Constraints, Connection editor, Set driven keys, MEL Scripting basics

Dasies

MODULE - III

Tools for Animation – Graph editor, Trax tool, script editor, interpolation, curve methods, ease in ease out

MODULE - IV

Principles of animation–Understand the principles of animation for 3D, bouncing ball, Timing, Staging with cameras

- 1. Rig it Right! Maya Animation Rigging Concepts (Computers and People) by Tina O'Hailey
- 2. Body Language: Advanced 3D Character Rigging EricAllen
- The Art of Rigging (A Definitive Guide to Character Technical Direction with Alias Maya, Volume 1) – Kiaran Ritchie

SEMES	TER	Course Code	Course Title	L	Т	P/ S	C	Int. Marks	Ext. Marks	Total Marks
V		AN21B5P4	Anatomy Study	0	1	5	5	50	50	100
COs		<u>.</u>	Course Outcom	nes					POs	BTLs
	The s	student will be abl	e							
CO1	To U	Inderstand of Hum	ıan Body						1,2	2,3
CO2	To A	pply the Integume	entary System						3,4	4,3
CO3	To ur	nderstand muscle	structure and dynamic	musc	le syst	tem			5,6	5,6
CO4	To ur	nderstand proporti	ions and						7,8	6,7
	<u> </u>		ECTU	RE						
MODUI	LE - I			Tra	2					
Introduc	tion to	the Human Body	y, Proportions of Hum	ian Bc	ody, G	lenera	l and	l Dynamic	anatomy,	, Drawing

and Sketching

MODULE – II

Study of human head in quick sketches and detail drawings from various angles of model. Understand the character, expression, and mood. Basic head study of various age groups in drawing and clay with the reference of model/live. Understand the skull and muscle formation of different ages.

MODULE - III

Detail study of human torso in drawing and clay of different ages groups with proper measurements.

Observation and understanding of the anatomy and skeleton structure in reference to its basic form.

MODULE - IV

Study of human Legs and Arms in quick sketches and detail drawings from various angles of model.

Understand the character, expression, and mood.

MODULE - V

Dynamic Anatomy

- 1. Atlas of Human Anatomy for the Artist by Stephen Rogers Peck
- 2. Anatomy for Artists Barrington Barber 2008
- 3. Human Anatomy for Artists, By György Fehér 2011
- 4. Anatomy and Drawing, By Victor Semon Perard, 2012
- 5. Drawing the head and hands & figure drawing (box set) by Andrew Loomis, 2020.
- 6. Anatomy for the Artist, By Sarah Simblet, 2020

SEMES	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
V		AN21B5E1	Stop motion Animation (Profession Elective)	1	1	2	2	50	50	100
COs			Course Outco	mes					POs	BTLs
	The s	tudent will be abl	e							
CO1	To un	derstand what is	stop motion						1,2	1,2
CO2	To cla	assify different me	ediums and methods	of stop	motic	on			3,4	2,3
CO3	To cr	eate characters wi	th proper deformation	on	0				5,6	3,4
CO4	To de	sign the knowled	ge of stop motion in	film m	aking	2			7,8	5,6

MODULE - I

Introduction to different stop motion animation techniques, Tools for stop motion.

MODULE - II

Mediums of stop motion, Clay, Plasticise, Miniatures, Toys,

MODULE - III

Armature and skeleton setup, Understanding deformations, Body mechanics. Background miniature

designing

MODULE - IV

Camera setup, shooting and editing. Applying transitions and effects

- 1. Digital painting for the complete beginner, Book by Carlin breccias, 2012.
- 2. Digital Sketching: Computer-Aided Conceptual Design, Book by John Baucus, 24 november, 2020.

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
						S		Marks	Marks	Mark
										S
V		AN21B5E2	Craft Design	0	1	1	2	50	50	100
			(Profession							
			Elective)							
COs			Course Outcom	ies					POs	BTLs
	The st	udent will be able	2							
CO1	To un	derstand disciplin	es of craft.						1,2	1,2
	To ide	entify different de	sign movements							
CO2	To ap	ply Paper crafts u	sing different techniq	ues	20				3,4	3,4
CO3	To Ev	aluate wood med	iums and crafts using	wood	X				5,6	5,6
CO4	To cre	eate complex ill <mark>u</mark> s	strations	Y	11	12			7,8	6,7
			3 22 20		10		h			

MODULE - I

Introduction: Art, Craft and Design are three inter-dependent disciplines. They are fundamental to human existence, predating written language. They play a major role in human evolution and development. Each involves a different way of thinking

Art and Craft Movement, design reform, social and design principles, developments.

MODULE - II

Paper Crafts: Origami, Quelling, Scrapbooking, Bookmaking Knitting (Continental) Make a Dream catcher

MODULE - III

Wood Crafts: Decoupage (collage), Wood Burning Quilting (sewing) Glass Etching

MODULE - IV

Field Study trip Exhibitions - CAD Project -1

Field Project -2 Field study - 1 CAM (Manual 3DProduct Design)

BOOKS RECOMMENDED

1. Art and craft design, Book by Clodagh Holahan and Maureen Roche, 1993

2. The Nature and Art of Workmanship, Book by David Pye, May 1968

	TER	Course	Course Title	L	S/	P/T/	С	Int.	Ext.	Total
		Code			F	0		Marks	Marks	Marks
V		AN21B5O1	Open Elective	0	1	1	2	100	0	100
			(Motion							
			Graphics)							
COs			Course Ou	itcor	nes				POs	BTLs
	The	student will be a	able							
CO1	Und	erstanding the	e concepts of	М	otion	Graphic	es		1,3	2,4
CO2	Und	erstanding Vario	ous Tools.	_					3,4,5	2,4
CO3		ting a Shape and epts like Maskin	d Text Animation	and	unde	rstandin <u></u>	g the va	rious	3,4	3,6
CO4		lying the Track nation.	Mattes Concepts a	nd e	ffect	s and Pre	esets an	d 3D	3,4,5	3,6
Motion rinciples	Grap		ion to Motion G er Effects and Ba			TT.	//	1		
rinciples Introdu Renderin AE Ter etc.,	Grap	to Adobe Afte	er Effects and Ba	sics.	Wo	and its	Impor	ting and o	rganizing	the media
Motion rinciples Introdu Renderin AE Ter etc., MODU	Grap	to Adobe Afte	er Effects and Ba	sics Prop	• Wo erty,	and its rkspace, Layers,	Impor Timeco	ting and o	rganizing er, codec a	the media and Forma
Motion rinciples Introdu Renderin AE Ter etc., MODU Introdu Stacki Adobe A	Grap nction ng. minolo LE - D ction t ng and After H	to Adobe After ogies: Composit to Interface of the Editing Layers Effects Tools: In	tion, Key Frame, 1 the Software - Tin – Controlling Spea	Prop nelir ed ar	• Wo erty, ne Str nd Ti Tool	Layers, ructure o me Rem ls like, S	Impor Timeco f Layer apping- election	ting and o ode, Rendo Based Co -Animatin n Tool, Ha	rganizing er, codec a mpositing g with Key nd Tool, Z	the media and Forma Software y Framing. Coom Tool
Motion rinciples Introdu Renderin AE Ter etc., MODU Introdu Stacki Adobe A	Grap inction ing. minolo LE - D ction t ing and After H con Too	to Adobe After ogies: Composite to Interface of the Editing Layers Effects Tools: In ol, Pan behind To	tion, Key Frame, 1 the Software - Tin - Controlling Spec	Prop nelir ed ar	• Wo erty, ne Str nd Ti Tool	Layers, ructure o me Rem ls like, S	Impor Timeco f Layer apping- election	ting and o ode, Rendo Based Co -Animatin n Tool, Ha	rganizing er, codec a mpositing g with Key nd Tool, Z	the media and Forma Software y Framing Coom Tool
Motion rinciples Introdu Renderin AE Ter etc., MODU Stacki Adobe A Rotatio	Grap iction ng. minolo LE - D ction t ng and After H on Too LE - D	to Adobe After ogies: Composit to Interface of the Editing Layers Effects Tools: In ol, Pan behind To II	tion, Key Frame, I the Software - Tin – Controlling Spea ntroduction to Var ool, Roto Brush To	Prop nelir ed ar ious pol, 1	• Wo erty, ne Str nd Ti Tool Pen T	Layers, Layers, ructure o me Rem Is like, S Tool, Pup	Impor Timeco f Layer apping- election opet To	bde, Rende Based Co -Animatin n Tool, Ha ol, Clone S	rganizing er, codec a mpositing g with Key nd Tool, Z Stamp Too	the media and Forma Software y Framing Coom Tool l etc.,
Motion rinciples Introdu Renderin AE Ter etc., MODU Stacki Adobe A Rotatio MODU Shapes	Grap iction ng. minolo LE - II ction t ng and After H on Too LE - II Anima	to Adobe After ogies: Composite to Interface of the Editing Layers Effects Tools: In ol, Pan behind Tool II ation: Introduct	tion, Key Frame, 1 the Software - Tin – Controlling Spea	Prop nelir ed ar ious pol, l er an	• Wo erty, ne Str nd Ti Tool Pen T d its	Layers, Layers, Cucture o me Rem Is like, S Fool, Pup	Impor Timeco f Layer apping- election opet To	bde, Rende Based Co -Animatin n Tool, Ha ol, Clone S	rganizing er, codec a mpositing g with Key nd Tool, Z Stamp Too	the media and Forma Software y Framing Coom Tool l etc.,
Motion rinciples Introdu Renderin AE Ter etc., MODU Stackin Adobe A Rotatio MODU Shapes various o	Grap iction ng. minolo LE - II ction t ng and After H on Too LE - II Anima options	to Adobe After ogies: Composite to Interface of the Editing Layers Effects Tools: In ol, Pan behind Tool II ation: Introduct is like: Trim path	tion, Key Frame, I the Software - Tin – Controlling Spea ntroduction to Var ool, Roto Brush To	Prop nelir ed ar ious pol, l er an Path	• Wo erty, ne Str nd Ti Tool Pen T d its as, etc	Layers, Layers, Layers, ructure o me Rem Is like, S Tool, Pup propert c.,	Impor Timeco f Layer apping- election opet To ies and	ting and o ode, Rende Based Co -Animatin n Tool, Ha ol, Clone S animating	rganizing er, codec a mpositing g with Key nd Tool, Z Stamp Too g shape la	the media and Forma Software y Framing Zoom Tool I etc.,

MODULE - IV

Track Mattes: Introduction to Track Mattes, Parenting & Link and Blending Modes and Motion Path Techniques

Effects & Presets: Applying the Effects & Presets Like CC Sphere, Radio Wave and CC Starburst

Introduction to 3D: Working in 3D Space and Animation Techniques.

BOOKS RECOMMENDED

1. Adobe After Effects Classroom in a Book (2018 release)

2. The Animator's Survival Survey Kit, Richard Williams



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SEMESTER	Course Code	Course Title	L	T	P/ S	С	Int. Mark s	Ext. Marks	Total Marks
V		Clay Modeling (Skill Oriented Course-3)	0	0	2	2	100	0	100
COs		POs	BTLs						
	The student w								
CO1	To learn and understand clay preparation methods						1, 3	1, 2	
CO2	To experiment different relief methods					3, 7	2, 4		
CO3	To understand and model different technique of pottery making					3, 4	2, 3		
CO4	To understand firing process						3,7	2, 4	

MODULE - I

Introduction to various clay bodies and clay preparation methods.

MODULE - II

Drawing of pattern, designs and any other motifs from surroundings to work on clay slab in adding

methodand subtracting method.

MODULE - III

Techniques of making relief sculpture/pottery in coil process, pinching method, throwing, slab

makingsurface decoration techniques

MODULE – IV

Science of various kilns and kiln making process. Pre-firing and final firing of terracotta in kiln

SEMESTER -VI

SEMESTER VI		Course Code AN21B6P1	Course Title 3D Sculpting	L	T 1	P/ S 5	C 5	Int. Marks 50	Ext. Marks 50	Total Marks 100
				0						
COs			Course Outc	omes					POs	BTLs
	The	The student will be able								
CO1	To u	To use 3d sculpting software								1, 2
CO2	To n	To model high poly sculpts								1, 2
CO3	To model 3d models inside Zbrush								3,5	1, 2
CO4	To understand how to use 3d sculpting for creating game models							3,5	1, 2	
					1	2	1			
MODU	JLE - I					- 11				
• Under	rstandin	g of the concept	of high detailed mod	elling	E	3 E	+			
			d surface models wi		acro le	evel de	eta <mark>i</mark> li	ng		
			organic creature wit			10		8		
MODU				n no pro				A		
			h and basics of sculp	ting	2	-	\checkmark	1		
			er Modelling and Pla		lesh F	Jows	/ Fac	e Loops		
MODU			er woodenning and i ta	anning iv.		10 w 5	1 ac	c Loops		
		Organic Form by	Sculpting	48	-					
	C		fine details and Reto	nology						
• Scille	e		d Texture Map Extra							
-	wppmg,		a restare map Data							
• Unwr	ILE - I	V								
• Unwr MODU			ng software tools like	e Pixolo	vic Zh	rush	Auto	desk Mud	box.	
• Unwr MODU • Introd	luction	of Digital sculptin	ng software tools like					desk Mud	lbox.	
• Unwr MODU • Introd • Under	luction of the stand h	of Digital sculptini igh detail sculptin	ng software tools like					odesk Mud	lbox.	
• Unwr MODU • Introd • Under BOOI	stand h	of Digital sculptin igh detail sculptin COMMENDED		levant to	cg ar			odesk Mud	lbox.	
SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
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						S		Marks	Marks	Marks
V	I	AN21B6P2	3D Character	0	1	5	6	50	50	100
			Modelling and							
			Texturing							
COs			Course Outcom	es					POs	BTLs
	The st	tudent will be able	2							
CO1	To un	derstand the anato	omy for organic model	ling					1,2	1,2
CO2	To ap	oply modelling to	ools and techniques in	r crea	ating (defor	nable	e organic	3,4	2,3
	charae	cters	TECTUR	E						
CO3	To ap	ply anatomy tech	niques in creating 3D o	luadr	uped o	charac	cters		5,6	3,4
CO4	To ap	ply texturing knov	r	7,8	5,6					
	anima	ation film makin <mark>g</mark>								
			2 10 10		13	E.	H			
MODU	LE - I			×	MC .	A				
Introduc	tion to	Organic Modellin	g, pipeline, and model	ling g	guidel	ines		4		
MODU	LE - II		MINES	ar	N.		1			
Modelli	ng Bipe	d character, Block	cing, Head proportions	, Har	ids an	d arm	s, M	uscle struct	ture, Legs,	and
feet.		1	ESTO20	20	1			/		
MODU	LE - II		Ren		1000	1	1			
	LE - III RAE av									
Modelli	ng a Qu		. Proportions of chara	cter. I	Dynan	nic an	atom	y. Poses		
Modellin MODU	•	adruped character	. Proportions of chara	cter. I	Dynan	nic an	atom	y. Poses		
MODU	LE - IV	adruped character	r. Proportions of character c model, Deformable r				atom	y. Poses		
MODU Texturin	LE - IV	adruped character					atom	y. Poses		
MODU Texturir <u>BOOK</u>	LE - IV ng and s S REC	adruped character hading an Organic		nodel	textu	ring		<u> </u>	chniques, b	y Jason
MODU Texturir <u>BOOK</u> 1. (LE - IV ng and s S REC	adruped character hading an Organic OMMENDED er modeling with	c model, Deformable r	nodel	textu	ring		<u> </u>	chniques, b	y Jason
MODU Texturir <u>BOOK</u> 1. (LE - IV ng and s S REC Characte Patnode	adruped character hading an Organic OMMENDED er modeling with 1 , 2008.	c model, Deformable r	nodel	textu	ring olygoi	nal m	odeling tea	chniques, b	y Jason
MODU Texturin BOOK 1. (H 2. (LE - IV ng and s CS REC Characte Patnode Characte	adruped character hading an Organic OMMENDED er modeling with 1 , 2008. er modeling, digit	c model, Deformable r Maya and Zbrush, prot	nodel Fessio By Da	textu nal po	ring blygor vade, 1	nal m 2005	odeling teo	-	-
MODU Texturin BOOK 1. (H 2. (3. N	LE - IV ng and s CS REC Characte Patnode Characte	adruped character hading an Organic OMMENDED er modeling with 1 , 2008. er modeling, digit	c model, Deformable r Maya and Zbrush, prot al artist master class, E	nodel Fessio By Da	textu nal po	ring blygor vade, 1	nal m 2005	odeling teo	-	-

SEMES	STER	Course Code	Course Title	L	Т	P/ S	C	Int. Marks	Ext. Marks	Total Mark s
V	I	AN21B6P3	3D Animation	0	1	5	6	50	50	100
COs			Course Outcom	nes					POs	BTLs
	The s	tudent will be able	2							
CO1	To us	e 3D animation so	oftware						1,2	1,2
CO2	To in	plement animatic	n principles in 3d ani	matio	1				3,4	2,3
CO3	To an	imate characters	with different principl	es					5,6	3,4
CO4	To in	To implement animation principles to different animations							7,8	5,6
MODU	on prin LE - II	ciples in 3d anima	tion, Implementation	of 12	princi	iples				
	-	bounce and Object	ct animation	0.20			Ŋ.	/		
MODU: Animati		c cycle and run cy	cle	100	and a	/				
	-	COMMENDED		-						
]	1. Anii	mators survival ki	t.							
4	2. Con	plete Animation	Course, Chris Patmore	e, Bar	rons E	Educat	ional	Series Inc	2,2015	
			ks Animation: Celebr	Ũ				Ramin Za	ahed (All)	
2			or Planning Animation		•					
	5. Con	plete Animation	Course, Chris Patmore	e, Bar	ron's l	Educa	tiona	al Series In	c,2015	

SEMES	TER	Course Code	Course Title	L	Т	P /	С	Int.	Ext.	Total
	S Mar								Marks	Marks
VI	AN21B6P4 Matte Painting 0 1 4 4 50 Course Outcomes								50	100
COs				POs	BTLs					
	The	student will be ab	le							
CO1	To u	nderstand of desi	gn principles, concepts,	style	s, and	termi	nolo	gies	1,2	2,3
CO2	To aj	pply skill in tools	and techniques of matt	e Pair	nting				3,4	4,3
CO3	To ci	reate design princ	iples and theories to de	sign p	oroble	ms			5,6	5,6
CO4		Demonstrate progr	based on	7,8	6,7					

MODULE I

What is matte painting, matte painting defined, The Glass shot, the original negative matte, paint verse Pixels

MODULE – II

Custom brushes to matte painting: Photoshop workspace tools and Custom brushes Composition, the digital Tablet painting, Photoshop panels, layers, paths, adjustment panel, history panel, using brushes, colour dynamics, Dual brushes, working with image-based brushes,

MODULE – III

Landscape Matte Paintings: painting clouds, tinting the sky, composition, and concepts, creating castle on a hill painting, understanding16-bit colour, paint objects, principles of balance, the rule of third, concept sketch s, Perspective basics linear Types of perspectives: one, two, three, (atmospheric, horizon and eye level, vanishing points)

MODULE IV

Plate Extension/transformation-Using the Clone Tool, Perspective cloning, Simple water reflections, Light and Atmosphere integration, going through the steps of creating the painting from the very early ideas to the very final look, moving into photorealistic concept key frame art, adjusting render levels to plate photography-Breaking repetitive patterns, Weathering, ageing, replacing parts of the render to break CG feeling.

- 1. The Digital Matte Painting Handbook, Author, David B. Mattingly 2011
- 2. The Invisible Art: The Legends of Movie Matte Painting, Author Mark Cotta Vaz, Craig Barron 2004.
- 3. The digital painting techniques, master collection: author: Elsevier, volume 1,2009



SEMES	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
VI		AN21B6E1	Game Modelling & Texturing (Professional elective)	1	0	5	5	50	50	100
COs			Course Outcom	es					POs	BTLs
	The s	student will be ab	le							
CO1		nderstand the Fun	ndamentals of Game Mo	delii	ng, In	organi	c Mo	odeling,	3,5	1, 2
CO2	To ci	reate game textur	es which are game engin	ne re	ady	2			3,5	1, 2
CO3			damentals of Game Tex dodeling, Organic Mode	6		Enviro	onme	ent	3,5	1, 2
CO4	To ci	reate PBR materi	als and textures for gam	e eng	gines	R	11		3,5	1, 2
MODU Game M Low pol MODU	/Iodelli y mode	elling for games,	lget							
Introdu	iction	to Texturing for								
Unwrap	ping fo	or games, types of	f texture maps, Texel de	nsity						

MODULE - III

PBR Materials

Physical based render, understanding different maps, Using normal map for details,

Substance painter

Creating smart PBR materials and textures.

MODULE - IV

Texture exporting

Marmoset viewer, exporting textures for different game engines. Shader connections

BOOKS RECOMMENDED

1. 3D Animation Essentials 1st Edition by Andy Beane

https://egyanagar.osou.ac.in/prog-slm-dma.html

3D Art Essentials: The Fundamentals of 3D Modelling, Texturing, and Animation 1st Edition by

Ami Chopine.

- 2. The Dark side of game texturing, by David Franson, 2004
- 3. Maya for games: Modeling and texturing techniques with Maya, by Michael Ingrassia, 2008.
- 4. Begging PBR Texturing: Learn Physically Based Rendering, By Abhishek Kumar ,2009.



SEMES'	ΓER	Course Code	Course Title	L	Т	Р/ S	С	Int. Marks	Ext. Marks	Total Marks
VI	I AN21B6E2 Renderin (Professio		Advanced Lighting and Rendering (Professional Elective)	1	0	5	5	50	50	100
COs			Course Outcom	ies					POs	BTLs
	The s	student will be a	ble							
CO1	To u	nderstand second	lary lighting techniques	LE,	30				3,5	1, 2
CO2	To create 3D scenes with raytraced lighting techniques					3,5	1, 2			
CO3	To understand what are render passes							3,5	1, 2	
CO4	To de	Fo develop lighting for production ready 3D scenes							3,5	1, 2

MODULE - I

CREATING LIGHTS: Creating various types of lights, light properties, understanding light attributes,

direct and indirect lighting, using maps on light attributes, break light links, make light links

MODULE - II

Using various lights to illuminate scenes, day lighting, night lighting, adding fog to environments, light

glows, indoor and outdoor lighting, diffused lighting, 3-point lighting, key light, fill light and back light

MODULE - III

Shading and Rendering: Understanding global illuminations, GI photons, photon maps, final gathering,

combining GI and FG, HDRI images, caustics, subsurface scattering, creating physical sun and sky. Light

Linking, Final Composition

MODULE - IV

Rendering light passes and compositing a production ready scene.

- 1. 3D lighting: history, concepts, and techniques- Book by Arnold Gallardo, 12 November 2000.
- 2. Aesthetic 3D Lighting: History, Theory, and Application, Book by Lee Lanier, 5 March 2018.
- 3. Digital Lighting & Rendering, Book by Jeremy Birn, 2000

ESTER	CourseCode	Course Title	L	S /	P /	С	Int.	Ext.	Total
				F	T /		Mark	Marks	Marks
					0		S		
VI	AN21B6O1	Open Elective-	0	1	1	2	100	0	100
3(Advanced Motion									
Motion									
Graphics)									
	Course Outcomes							POs	BTLs
The stu	dent will be able								
Unders	tanding the con	cepts of Shape	e an	d Ty	pe Lag	yers		1,3	2,4
Unders	Understanding Track Mattes								2,4
Working on Parenting Concepts and Motion Path Techniques etc.,								3,4	3,6
Applyi	ng the 3D in Afte <mark>r</mark> E	ffects	5			2		3,4,5	3,6
	VI The stu Unders Unders Working	VI AN21B6O1 The student will be able Understanding the con Understanding Track Matte Working on Parenting Conc	VI AN21B6O1 Open Elective- 3(Advanced Motion Graphics) Course Outcome The student will be able Understanding the concepts of Shape Understanding Track Mattes	VI AN21B6O1 Open Elective- 3(Advanced Motion Graphics) 0 Motion 3 Motion 4 Motion 6 The student will be able Course Outcomes Understanding the concepts of Shape and Understanding Track Mattes Shape and Motion Parenting Concepts and Motion Path 7	VIAN21B6O1Open Elective- 3(Advanced Motion Graphics)013(Advanced Motion Graphics)013(Advanced Motion Graphics)0113(Advanced Motion Graphics)113(Advanced Motion Graphics)113(Advanced Motion Graphics)113(Advanced Motion Graphics)113(Advanced Motion Graphics)1113(Advanced Motion Graphics)111 <td< th=""><th>Image: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateVIAN21B6O1Open Elective- 3(Advanced Motion0113(Advanced MotionImage: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateCourse OutcomesThe student will be ableUnderstanding the concepts of Shape at Type LagUnderstanding Track MattesWorking on Parenting Concepts and Motion Path Techniques</th><th>Image: Network in the standing the concepts of Shape and Track MattesImage: Network in the standing the concepts and Motion Pather into the standing the concep</th><th>Image: Normal strain of the strain of the</th><th>Image: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateMarks<th< th=""></th<></th></td<>	Image: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateVIAN21B6O1Open Elective- 3(Advanced Motion0113(Advanced MotionImage: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateCourse OutcomesThe student will be ableUnderstanding the concepts of Shape at Type LagUnderstanding Track MattesWorking on Parenting Concepts and Motion Path Techniques	Image: Network in the standing the concepts of Shape and Track MattesImage: Network in the standing the concepts and Motion Pather into the standing the concep	Image: Normal strain of the	Image: Normal stateImage: Normal stateImage: Normal stateImage: Normal stateMarks <th< th=""></th<>

MODULE - I

Animate: Shape Layers- Bezier Paths, Shape Properties, Shapes using Pen Tool, Animating Stroke and various animate options: Zig Zag, Trim Paths, Concrete Repeaters etc., Type Layers.

MODULE - II

Track Mattes: Introduction to the Track Mattes, Alpha and Luma Mattes and Alpha Inverted and

LumaInverted, Pre –Composition Concept

MODULE - III

Parenting Concept: Introduction to Parent Method, Null Object, Responsive Design, Assignment work

Motion Path Techniques: Transforming path into key frame motion, Solid Layer Assignment work

MODULE - IV

3D in After Effects: Introduction and Setting up the workspace in 3D Space Animation, Assignment work

SEMES	TER	Course Code	Course Title	L	Τ	P/S	С	Int.	Ext.	Total
								Marks	Marks	Marks
VI		AN21B6K1	Print Making Technique (Stencil Cut) (Skill – Oriented Course-IV)	0	0	2	2	100	0	100
Cos			Course Outcon	nes					POs	BTLs
	The s	student will be ab	ole							
CO1	To u	nderstand print m	naking techniques	RĘ	An				10	2
-	C		s: Cutting tools (such a	13						

Acto/Paper/Plastic sheet, knife or Cutter/ craft knife, buff Sheet/Drawingsheets, letterpress Ink, hand roller or brayer, linseed oil, thinner/ turpentine, Masking tape, news Paper.

Topic: Choosing any one of them

Cityscape - Depiction of Village scene - Depiction of making your surrounding area small towns or rural areas, often featuring traditional architecture, farms, and natural scenery, cities or urban areas, often featuring skyscrapers, bridges, and other man- made structures, etc....

Village scene - Depiction of making your surrounding area small towns or rural areas, often featuring traditional art and architecture, farms, and natural scenery.

Mythical creatures - Depiction of imaginary beings, such as dragons, unicorns, ormermaids, in natural or fantasy landscapes.etc.

Fantasy landscapes - Depictions of imaginary or dreamlike landscapes, often featuring fantastical elements such as floating islands, magical forests, or surreal landscapes.

Historical scenes - make a Depiction of important historical events, such as wattles orpolitical events, often set in a particular landscape or environment.

Urban landscape - Draw a depiction of the built environment of cities, oftenhighlighting issues such as urbanization, gentrification, or environmental impact.

Nature scene - Depiction of natural landscapes such as mountains, forests, oceans, ordeserts, often highlighting the beauty and fragility of the natural world.etc.

SEMESTER -VII

SEME	STER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
VII		AN21B7P1	Character Animation and Lip sync	1	1	5	6	50	50	100
COs			Course Outcome	es					POs	BTLs
	The	student will be a	ble							
CO1	To a	nimate 3d charae	cters						3,5	1, 2
CO2	To u	nderstand how 3	d animation works						3,5	1, 2
CO3	To a	nimate a scene v	vith multiple factors	E					3,5	1, 2
CO4	To c	reate a lip sync f	or an audio clip	SI	V				3,5	1, 2
MODU	J LE - I Tred mult	II ti characte <mark>r sequ</mark>	n, walk cycle, Run Cycle, ence, Animate push and p	sl	ŝ	nt liftin	ng,	4		
		v perform lip-syn	cing	-		/	/			
			imation. Prepare a storyb	oard	, Capt	ure li	ve ac	ting and a	ssembling	the set.
			creen resolution, camera s					J	U	
• Actin	g theori	es (how to empo	ower animators to become	e cha	racter	anim	ators)		
BOO	KS REO	COMMENDED	2							
1. Acti	ng for A	Animators, Revis	sed Edition: A Complete	Guid	e to P	erfor	nanc	e Animati	on by Ed H	Iooks
2. Anii	nation:	From Script to S	Screen by Shamus Culhan	e						
h	ng for A	Animators by Ed	Hooks and Brad Bird							

SEMES	S Mark							Int. Marks	Ext. Marks	Total Marks
VII		AN21B7P2Digital Compositing115650								100
COs			Course Outcom	es					POs	BTLs
	The	student will be a	ble							
CO1	To u	nderstand postpi	roduction pipeline						3,5	1, 2
CO2	To to	ools and techniq	ues of compositing						3,5	1, 2
CO3		pply compositin oval and keying	g techniques in removing	g gree	en scre	een an	d ma	tte	3,5	1, 2
CO4		To integrate CG with live action using match moving and rotoscoping echniques.								1, 2

MODULE - I

Introduction to Compositing, 3D and 2D compositing, Principles of compositing. Tools of compositing,

MODULE - II

Masks and matte removal, layer compositing, Types of Mattes,

MODULE - III

Rotoscoping, Roto prep, Clean up, BG plate preparation, Colour correction

MODULE - IV

STD2020

Match moving, 3D deep compositing, pass compositing

- 1. The art and science of digital Composting, by Ron Brinkmann, 1999.
- 2. Digital composting film and video, by Steve Wright, 2013.
- 3. Digital composting with Nuke, by Lee Lanier, 2012.
- 4. Digital composting for film and video: Production workflows, by Steve Wright, 2017.

ΓER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
	AN21B7P3 Audio and Video Editing 1 1 3 5 50							50	100
		Course Outcon	nes				_	POs	BTLs
The s	student will be a	ble							
To u	nderstand editing	g tools and techniques						3,5	1, 2
To to	ols and techniqu	ues of linear editing						3,5	1, 2
To ap	-							3,5	1, 2
To sy	To sync audio and video with effects and create a final copy							3,5	1, 2
	To un To to To ap	AN21B7P3 The student will be a To understand editing To tools and technique To apply transitions a	AN21B7P3 Audio and Video Editing The student will be able Course Outcom To understand editing tools and techniques To tools and techniques of linear editing To apply transitions and effects for continuity	AN21B7P3Audio and Video Editing1ICourse OutcomesTo understand editing tools and techniquesTo tools and techniques of linear editingTo apply transitions and effects for continuity of sl	AN21B7P3Audio and Video Editing11Editing11Course OutcomesThe student will be ableTo understand editing tools and techniquesTo tools and techniques of linear editingTo apply transitions and effects for continuity of shot	TER Course CodeCourse TitleLTSAN21B7P3Audio and Video Editing113Course OutcomesThe student will be ableTo understand editing tools and techniquesTo tools and techniques	TERCourse CodeCourse TitleLTSCAN21B7P3Audio and Video Editing1135Course OutcomesThe student will be ableTo understand editing tools and techniquesTo tools and techniques of linear editingTo apply transitions and effects for continuity of shot	TER Course CodeCourse TitleLTSCMarksAN21B7P3Audio and Video Editing113550Course OutcomesTo understand editingTo understand editingTo apply transitions and effects for continuity of shot	FER Course CodeCourse TitleLTSCMarksMarks AN21B7P3Audio and Video Editing11355050Course OutcomesPOsThe student will be ableTo understand editing tools and techniques $5 = 50$ $50 = 50$ To tools and techniques $5 = 50$ $50 = 50$ To apply transitions and effects for continuity of shot $5 = 50$ Automation of linear editingTo apply transitions and effects for continuity of shot

MODULE - I

Introduction to Filming Digital video and Audio Editing, Unit 5: Editing: Necessity of editing: (To analyse the reasons of editing), Principles of editing: (To analyses different editing principles)

MODULE - II

Editing tools, Clips, shots, Scenes, and frames Clipping and transition tools

MODULE - III

Transitions and effects: Basic techniques of building a scene. (Continuity, matching, overlapping), Pace & Time. (Analyse the techniques of pace& time manipulation during editing) Rough cut. (To make the primary edit following the script sequentially). Final Cut (To make the final cut after re-viewing the rough cut.

MODULE - IV

Audio editing and syncing: Dub matching and track lying. (To prepare for re- recording and optical effects.), Married Print. (Negative cutting- the last stage production.

- 1. On film editing by Edward dmytryk,2012
- 2. The technique of film and video editing: history, theory by kendancyger, 2002.
- 3. Fine cuts: the art of European film editing, by Roger Crittenden, 2012
- 4. The conversation: Walter march and the art of editing film, by Michael Ondaatje, 2012.

SEME	STER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
VII	AN21B7E1 Dynamics & FX (Professional Elective) 1 0 5 5 50						50	50	100	
COs		Course Outcomes								BTLs
	The	student will be a	ble							
CO1	To u	se dynamic simu	lations for creating FX	K					3,5	1, 2
CO2	To ci	reate dynamic ar	nimations using rigid a	nd spot	bodi	es.			3,5	1, 2
CO3	To ci	To create dynamic liquid simulations using fluids and particles							3,5	1, 2
CO4	To ci	To create character FX using cloth and fur simulations							3,5	1, 2

MODULE - I

Introduction Dynamics & FX

using particle systems Understanding particles, emitters, particle goals, creating smoke, fire, explosion effects using particle effects, instancing particles, crowd simulation

MODULE - II

Rigid and soft body dynamics, understanding rigid bodies, active rigid body, passive rigid body, rigid body

solver, applying forces on rigid bodies, breaking rigid bodies, creating effects using soft bodies

MODULE - III

Fluid effects, creating clouds, water, oceans, ponds using fluid effects, Fluid containers, Effects, and fields

MODULE - IV

N Particle and N cloth, N hair and fur

- 1. Maya Studio Projects: Dynamics, by Todd Palamar
- 2. Learning Maya | Dynamics by Alias wave front

SEMES	TER	Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
VII	AN21B7E2Match Moving10550							50	50	100
COs			Course Outco	mes	8				POs	BTLs
	The s	student will be a	ble							
CO1	To u	nderstand how to	o collect track data						3,5	1, 2
CO2	To u	nderstand how to	o 2D trach live footage						3,5	1, 2
CO3	To us	To using different techniques of match moving								1, 2
CO4	To in	To implement 3D tracking objects and characters							3,5	1, 2

MODULE - I

Introduction to software, the main window, Environment concept, Creating a new

project, New Sequence, Navigation within the sequence, Cache movie, Point group, point, the field

of view, Dummy objects, Creating preview movie

MODULE - II

Automatic Motion tracking, Spline area mattes, Manual Motion tracking, Image

controls, Camera Adjustment, Stabilizing, there dimensional camera motion path, Postfilter, Fixed

camera position, Deviation Value, Distorted point model, Lens Distortion.

Fisheye lenses, Warp Distort, Zooming, Fixed camera position, Match moving Non-Rigid Objects, Tracking

points in mocap projects, Valid and invalid screen points, Camera models,

Extracting overall movement, Tracking, Search pattern and area, Mare tracking, Natural markers,

Camera Adjustment

MODULE - III

Working with 2d mode, working with 3D mode, Browsing the footage, Track window,

Parameter's window, Timeline Window, importing footage, Cropping an image sequence, 2D

Tracking, Automatic, Supervised, Key point placing, Troubleshooting the tracker, Camera solving,

MODULE - IV

Working with 3D objects, Export file formats, Maya exporting, Exporting a project,

Max script export, Cinema 4D export, motion Capture module, Building and tracking a Mocap

group

BOOKS RECOMMENDED

- 1. The Art and Technique of Match moving: Solutions for the VFX Artist by Erica Hornung
- 2. Match mover User Guide, Autodesk, Using audio and video for educational purposes, Deakin.
- 3. 3D Equalizer version 3 release 5 manual, Science.D. Visions

SEMESTER		Course Code	Course Title	L	Т	P/S	С	Int. Marks	Ext. Marks	Total Marks
		AN21B7O1	Open Elective (Fundamentals of 3D Modeling)	0	9 <u>1</u>		2	100	0	100
Cos	Course Outcomes							POs	BTLs	
	The	The student will be able								
CO1	To u	To understand how to use 3d modelling software							10	2

MODULE - I

Introduction to3D Software, Introduction to the 3D software, Interface of 3D software, navigation tools, shading methods, what is prop, needs and mean safety shop space

MODULE - II

Creating NURBS Models, NURBS Curves, Revolving, lofting, and extruding curves to create surfaces, attaching, and detaching surfaces, socking, stitching surfaces. Modelling using polygons, creating polygon primitive objects, polygon components, editing polygon surfaces, combining, and separating polygons. Polygon Prop modelling, creating polygon prop models, Understanding topology

SEMESTER		Course Code	Course Title	L	Т	P/ S	С	Int. Marks	Ext. Marks	Total Marks
VII		AN20B7K1	Research Methodology (Skill Oriented Course-V)	2	0	0	2	100	0	100
COs	Course Outcomes									BTLs
	The student will be able									
CO1	To understand research approaches							2,4	2,3	
CO2	To acquire knowledge on different research kinds of research							2,4	2,3	
CO3	To acquire knowledge on different kinds of isms orientation2,42,3						2,3			
CO4	To acquire knowledge on research design							2,4	2,3	

MODULE - I

What is a Research? - Research Approaches: Qualitative Research, Quantitative Research, Mixed Methods Research - Methods, Methodology, Theoretical Perspective, Epistemology

MODULE - II

Identifying a Research Problem – Reviewing the Research Problem – Specifying a Purpose for Research – Data Collection – Analyzing and Interpretation of Data – Reporting and Evaluating Research - Framework for Research: Philosophical worldview, Design, Research Methods – Philosophical worldview: Postpositivism, Constructivism, Transformative, Pragmatism

MODULE - III

Post-positivism: Determination, Reductionism, Empirical Observation and Measurement, Theory Verification – Constructivism: Understanding, Multiple Participant Meanings, Social and Historical Construction, Theory Generation – Transformative: Political, Power and justice oriented, Collaborative, Change-oriented – Pragmatism: Consequences of Action, Problem-cantered, Pluralistic, Real World Practice Oriented

MODULE - IV

Research Designs: Qualitative Research, Quantitative Research, Mixed Methods Research – Qualitative Research: Narrative Research, Phenomenology, Ground Theory, Ethnographies, Case Study – Quantitative Research: Experimental Designs, Non-experimental Designs – Mixed Methods: Convergent, Explanatory

SEMESTER		Course Code AN21B8 IN	Course Title Internship	L	Т	P/ S	C 12	Int. Marks 50	Ext. Marks 50	Total Marks 100
				┢						
COs	Course Outcomes								POs	BTLs
	The student will be able									
CO1	To understand animation industries views								1,2	2,3
CO2	To develop Internship Advisor meets with the student at the one-third point of the experience						3,4	4,3		
CO3	To create professional method & industries Professional point of view						5,6	5,6		
CO4	To understand working in teams							7,8	6,7	

SEMESTER -VIII

Preparing resume, applying for internship, interview Port polio, sketch, 2d, 3d Technology related Workplace Competencies, Workbook Log, Learning Outcomes, Teamwork



SEMESTER		Course Code	Course Title	L	Т	P /S	С	Int. Mark s	Ext. Marks	Total Mark s
VIII		AN20B8 PR	Project/Portfolio				18	100	100	200
COs	Course Outcomes									BTLs
	The student will be able									
CO1	To understand Animation production								1,2	2,3
CO2	To work on an animation movie								3,4	4,3
CO3	To Research on different animation							5,6	5,6	
CO4	To th	To the role play of Reference and Viva							7,8	6,7
				15	NO.					

MODULE – I Understand the importance of production pipeline in making an animation film.

Project: Project submission, Digital Video submission

1. The Animation Book: A Complete Guide to Animated Filmmaking--From Flip-Books to Sound Cartoons to 3- D Animation, by John Cane maker, 1998.

Assignment: Animation project submission

Reference books:

1. How to get animation an animation Internship, a guide that helps you apply, Eric Bravo, 2018.

2. The Princeton Review the internship Bible, Mark old man and Samer Hamadeh, 2005edition.

Project: Dissertation book, DVD, Digital video submission