

ALAGAPPA UNIVERSITY COLLEGE OFEDUCATION

DIPLOMA IN ANIMATION-DA

REGULATIONS AND SYLLABUS

[For the candidates admitted from the AcademicYear2022–2023 onwards]



ALAGAPPAUNIVERSITY

(A State University Accredited with "A+" grade by NAAC (CGPA:3.64) in the Third Cycle and Graded as Category-I University by MHRD-UGC) Karaikudi-630003,TamilNadu.

THE PANEL OF MEMBERS-BROAD BASED BOARD OF STUDIES

Convener: Dr. J. E. Merlin Sasikala, Principal i/c, College of Education Teaching experience: 20 years, Research Experience: 15, Area of Research: Educational Psychology, Teacher Education and Educational Technology

Foreign Subject Expert: Prof. Vinnaras Nithyanantham, Professor Education and Languages, Department of General Education, Lebanese French University, Iraq. Teaching experience: 17 years, Research Experience: 17,

Subject Expert: Dr. I. Muthuchamy, Professor and Head, Department of Educational Technology, Bharathidasan University

Tiruchirapalli. Teaching experience: 26 years, Research Experience: 26, Area of Research: Educational Technology and Education Psychology.

Subject Expert: Dr. K. Chellamani Ph.D., Dean – Faculty of Education, Department of Education, Pondichery University, Pondichery. Teaching experience: 25 years, Research Experience: 26, Area of Research: Educational Psychology, Research Design and Methods, Pedagogy of technology

Subject Expert for Diploma in Cognitive Science Programme: Dr. A. Jahitha Begum, Professor and Head, Department of Education Gandhigram Rural Institute, Dindigul. Teaching experience: 16 years, Research Experience: 10, Area of Research: Cognitive Science, Communicative Competence

Industry Expert: Mr. S. Rajapandian, Headmaster, AlagappaModel Higher Sec. School, Karaikudi. Teaching Experience: 25 years, Research Experience: 8 years, Area of Research: Chemical Science and Educational Psychology.

Special Invitee: Prof. P. Sivakumar, Professor & Head, Department of Education (DDE), Alagappa University, Karaikudi. Teaching experience: 33 years, Research Experience:26, Area of Research: Education Technology, Education Psychology and CurriculumDevelopment

Special invitee for Diploma in Cdgfitive Science Programme: Dr. J. Sujathamalini, Professor & Head, Dean of Education, Department of Special Education and Rehabilitation Science Alagappa University, Karaikudi. . Teaching experience: 20 years, Research Experience:15, Area of Research: Educational Psychology and Special Education and Education











Student Alumni: Dr. AR. Saravanakumar, Assistant Professor & Head i/c, Department of History, Alagappa University, Karaikudi. Teaching experience: 25 years, Research Experience: 15, Area of Research: Teaching Strategies, Education Psychology and Special Education



Ex-Officio Member: Dr. V. Sivakumar, Director, Curriculum Development Cell, Alagappa University, Karaikudi-03. Teaching experience: 20 years, Research Experience: 11, Area of Research: Marketing Management, Agricultural Marketing, International Logistics, Retail

Logistics, Consumer Research

Member: Dr. C. Anbuchelvan, Assistant Professor in Commerce College of Education, Teaching experience: 15 years, Research Experience: 10, Area of Research: Educational Psychology and technology.

Member: Dr. A. Pio Albina, Assistant Professor in Mathematics, College of Education, Teaching experience: 13 years, research Experience: 11, Area of Research: Mathematics Education and Education technology

Member: Dr. M. Parimala Fathima, Assistant Professor, in Physical Science, College of Education, Teaching experience: 18 years, research Experience: 18, Area of Research: Cognitive Science Education and Teaching competency.

Member: Dr. M. Suganthi, Assistant Professor in Tamil, College of Education, Teaching experience: 18 years, research Experience: 15, Area of Research: Teaching of Tamil, Psychology, Sociology.

Member: Dr. R. Portia, Assistant Professor in Education, College of Education, Teaching experience: 16 years, research Experience: 16, Area of Research: Educational Psychology, Guidance and Counselling.

Member: Dr. J. Jayachithra, Assistant Professor in Education, College of Education, Teaching experience: 13 years, research Experience: 12, Area of Research: Life skills, Psychology.

Member: Dr. M. Sanmuga Revathi, Assistant Professor in Education, College of Education, Teaching experience: 13 years, research Experience: 7, Area of Research: Bio cognition, meta cognition. 105

Member: Dr. G. Sivakumar, Assistant Professor in Education, College of Education, Teaching experience: 15 years, research Experience: 9, Area of Research:Primary Education







Member: Dr. G. Rajeswari, Assistant Professor in Biological Science, College of Education, Teaching experience: 13 years, research Experience: 12, Area of Research: Life skills, Psychology, Biological Science

f

Member: Mr. I. Lenin, Assistant Professor in Education, College of Education, Teaching experience: 6 years, research Experience: 4, Area of Research: Social Emotional Learning

Member: Dr. A. Rube Jesintha, Assistant Professor in Physical Education, College of Education, Teaching experience: 06 years, Research Experience: 12, Area of Research: Physical and

yoga Education.

Member: Mrs. EMN. Sharmila, Arts & Crafts Instructor, College of Education, Teaching experience: 8 years, research Experience: 04, Area of Research: Arts and

crafts and computer applications



ALAGAPPA UNIVERSITYCOLLEGE OFEDUCATION

Karaikudi -630003, Tamil Nadu.

REGULATIONS AND SYLLABUS-(CBCS)

[For the candidates admitted from the Academic Year 2022 – 2023 onwards]

Name of the Department: Alagappa University College of EducationProgramme of Level: DIPLOMA IN ANIMATIONDuration for the Programme: Full Time (6 months)

DIPLOMA IN ANIMATION

Introduction:

The field of Animation is a great career choice for those individuals who have an aptitude in the area of illustration, cartoons, and 3D modeling. A diploma in Animation/Multimedia course is meant for those individuals who want to harness their creativity and imagination in the rapidly growing animation industry. A diploma in Animation teaches the styles and techniques of animation for creating video games, making illustrations, developing storyboards, editing videos, graphic designing, and developing motion pictures. A diploma in Multimedia teaches the students the fine concepts of 3D, 4D, Visual Effects, and Graphic designing.

Programme Objectives:

- Multimedia and animation have seen a growing market and the career opportunities of the professionals who have completed the Diploma course.
- Multimedia professionals can work as video and Graphic design specialists who design alluring websites by using pictures, typography, and illustrations to create a more engaging user interface.
- Digital media specialists can help in digital marketing campaigns by creating effective strategies for assisting digital media managers.
- A diploma in Multimedia course is also important for artists working on the multimedia platform to create alluring visual effects for video games, TV, films, and other modes of media.

1. Programme Specific Objectives-(PSO)

1	
PSO-1	To develop a good command of the subject matter of theanimating
PSO-2	To develop different skills of developing Multimedia
PSO-3	To develop proper altitudes towards animation as a result of which they will be able to maximize the achievements in 2 D animations
PSO-4	To develop the styles and techniques of animation for creating video games, making illustrations, developing storyboards, editing videos, graphic designing, and developing motion pictures with respect to 3D animations

2. Programme Outcome-(PO)

After successful completion of the diploma program, the following programmeoutcomes will be achieved by the pre-service teachers.

Po1	Pre-service teachers acquire fundamental knowledge and skills inanimation to								
	use effective teaching strategies and create								
	instructional materials that support student learning.								
Po2	Pre-service teachers gain knowledge on developing multimedia to evolve the								
	concept mapping with educational content								
Po3	Acquire communication skills and apply the ability to convey information								
	and ideas effectively inside the classroom, among peers, parents, society and								
	administrators.								
Po4	Familiarize the ability in developing multimedia								
Po5	Familiarize to become technological competence and realize the significance								
	of ICT in animation process. In addition they are able to apply ICT tools,								
	techniques, in formal and non-formal settings of classroom.								
Po6	Acquire knowledge, skills needed for effective multimedia and cope up with								
	classroom problems with respect to 3D animations								
Po7	Assess and apply the skills of animation for total quality								
	management.								
Po8	Create and implement the concepts and basic principles of Creative								
	animation inmultimedia.								
Po9	Implement the sound techniques of Creative multimedia.								
Po10	Teach the fine concepts of 3D, 4D, Visual Effects, and Graphic designing.								

3. Programme Specific Outcome-(PSO)

After successful completion of the program the following programme specific outcomes will be achieved by the pre-service teachers

PSO1	Students will know the various pedagogic skills and approaches of Animation
PSO2	Students develop proper attitude towards Multimedia as result of which he will be able to maximize the achievements from both the material and human resources
PSO3	Students gain relevant knowledge, skills, and values, involved in developing Multimedia.
PSO4	Students apply practical concepts in their practical work
PSO5	students know their potential and progress in different skills in Animation.

Eligibility for Admission:

Applicants must have qualified any UG degree. The reisnoupperage limit getting admission.

Attendance:

The minimum attendance of students shal lhave to be 80% for the programme.

Asessment / Evaluation:

The performance of a student in each course evaluated in terms of percentage of marks with a provision for conversion to grade points. Evaluation for each course shall be done by a continuous internal assessment by the concerned course teacher by internal assessments and consolidated at the end of the course along with the external assessment.

Continuous Internal Evaluation for Theory Courses:

The internal assessment marks fortheorycoursesareabout25markseach, shall be based on attendance, tests, seminars and assignments.

a.Test(average of best of two tests)	10
b.Assignment	05
c.seminar/Discussion	05
d.Attendance	05
	Total=25

Scheme/Pattern of External Examination (Question Paper Pattern) of Theory Subjects Theory - Maximum 75 Marks

End-Semester Examinations shall normally be conducted at the end of each semester. There shall be one end-semester examination of 3 hours duration in each theory course. The question papers of endsemester examinations of theory subjects shall be able to perform achievement testing of the students in an effective manner. The question paper shall be prepared in accordance with the following guidelines.

A question paper may contain very short answer type, short answer type questions and essay type questions. Different types of questions shall have different weightage to quantify their range. The pattern of questions for theory subjects shall be as follows:

Section A	10 questions. All questions carry equal	$10 \times 1 = 10$	10 questions – 2each
Section A	marks. (Objective type questions)	Marks	from everyunit
	5 questions Either / or type like 1.a (or)		
Section B	b. All questions carry equal marks and	$5 \times 5 - 25$	5 questions – 1 each
Section D	each answer should not exceed one	$3 \times 3 = 23$	from every unit
	pageor 250 words.		
Section C	5 questions Either / or type like 1.a (or)	$5 \times 8 - 40$	5 questions – 1 each
Section	b. All questions carry equal marks	$3 \times 6 - 40$	from every unit

CURRICULUM FRAME WORK FOR DIPLOMA IN ANIMATION

S.No.	Course	Title of the Paper	Т/Р	Cr.	Hrs./	Max. Marks			
5.110	Code		1/1		Wee k	Int.	Ext.	Total	
1	727101	Fundamental of Animation	Т	4	5	25	75	100	
2	727102	Principles Of Multimedia	Т	4	5	25	75	100	
3	727103	2D Animation	Р	5	10	25	75	100	
4	727104	3D Animation	Р	5	10	25	75	100	
		Total	23	18	30	100	300	400	



Core	Courseco 727101	ode	FUN	DAMEN	TAL OF	ANIMATION	T	Credits: 4	Hours: 5	
	I				UNIT - I			1		
Objective	1 To, under	rstand	the con	cept of A	nimation					
What is m	ean by Anima	ation –	– Why v	we need A	Animation	n – History of	Anima	tion– Uses o	f Animation	
– Types of	Animation –	Princi	iples of	Animatio	on – Some	eTechniques of	f Anim	ation – Anim	ation on the	
WEB – 3D	Animation –	- Speci	ial Effe	cts –Crea	ting Anin	nation.				
Outcome 1	1 Relate th	e conc	cept of	Animatio	on & Spe	cial Effects.			K2	
				1	UNIT - II	-				
Objective	2 To famili	aze the	ne conce	pts of Fla	ash Anima	ition				
Creating A	nimation in I	Flash: 1	Introdu	ction to F	Flash Anir	nation – Introc	luction	to Flash – W	orking with	
the Timeli	ne and Frame	e-based	d Anim	ation - W	/orking w	ith theTimelin	e and T	Tween- based	1 Animation	
– Understa	anding Layers	- Acti	tionscrip	ot.	in the					
Outcome	2 Realize th	he cono	ncepts of	creating	Animatic	on in Flash.			K3	
				Shi L	UNIT - II	- So				
Objective	3 To educa	ate 3D) Anima	tion and	l its appli	cations.				
3D Anima	ation & its C	Concept	ots – Ty	pes of 3	3D Anima	tion – Skelet	on & F	Kinetic 3D A	nimation –	
Texturing	& Lighting of	of 3D	Animat	tion – 3I	D Camera	Tracking – A	Applica	tions & Soft	ware of 3D	
Animation	l .			DV A	X					
Outcome 3	3 Learners	unders	stand th	e <mark>concep</mark> t	t of appli	cation and sof	tware	of 3D Anima	tion K2	
		1			UNIT - IV					
Objective	4 To make	them u	understa	and Script	t Animati	on and their us	age.			
Motion Ca	aption – Form	nats – I	Method	ls – Us <mark>a</mark> g	ges – Expi	r <mark>e</mark> ssion – Moti	on Cap	oture Softwar	e's – Script	
Animation	u Usage – Diff	ferent I	Langua	ge of Scr	ipt Anima	tion Among th	e Softv	ware.		
Outcome 4	4 Learners	analyz	ze the p	rinciples	of Script	Animation.			K3	
				١	UNIT - V				i	
Objective	5 To educa	te the c	concept	of Story	developm	nent in video.				
Concept D	Development	-Story	y Devel	loping –	Audio &	Video – Colo	or Mod	el –Device	Independent	
Color Mod	lel – Gamma	and Ga	Gamma (Correction	n - Produc	tion Budgets-	3D An	imated Movi	es.	
Outcome :	itcome 5Learners discuses the story developmentK2									

Suggested Readings :-

Akilli, M., & Seven, S. (2014). The effects of 3d computer models to academic achievement and spatial ability: Atomic models. Turkish Journal of Education, 3(1), 11-23.

Arici, N. & Dalkilic, E. (2006). The contribution of animations to computer assisted education: an application sample. Kastamonu Education Journal, 14(2), 421-430.

Arslan, H. O., Cigdemoglu, C., & Moseley, C. (2012). A three-tier diagnostic test to assess preservice teachers' misconceptions about global warming, greenhouse effect, ozone layer

depletion, and acid rain. International Journal of Science Education, 34(11), 1667-1686.

Ates, S., & Polat, M. (2005). The effects of learning cycle method on removing misconceptions related to electric circuits. Hacettepe University Journal of Education, 28, 39-47.

Bernhard, J. (2000). Do active engagement curricula give long-lived conceptualunderstanding? Physics Teacher Education Beyond, 749-752.

Baki, A., Kosa, T., & Guven, B. (2011). A comparative study of the effects of dynamic geometry software and physical manipulatives on pre-service mathematics teachers' spatial visualization skills. British Journal of Educational Technology, 42(2), 291–310.

Bulbul, O. (2009). Simulations and animations effects in computer assisted instruction on academic success and retention when teaching of optic unit in physics (Unpublished master's thesis). Cukurova University, Adana, Turkey.

Online Resources

https://www.britannica.com/art/painting/Elements-of-design https://www.britannica.com/art/painting/Elements-of-design http://ecoursesonline.iasri.res.in/mod/page/view.php?id=120905

K1-Remember	K2-Understand	K3-Apply	K4-Analyze	K5-Evaluate	K6-Create
Course Designed by	: Dr. P. Studert Sibi				

СО	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	L(1)	L(1)	L (1)	S (1)	L(1)	M (2)	M (1)	S(3)	M(2)	-
CO 2	M (2)	M (2)	M (2)	M (2)	L(1)	M (2)	M(2)	S(1)	L(1)	-
CO 3	L(1)	S (3)	S (3)	M (2)	M (2)	S(3)	M(2)	M(2)	M (2)	L(1)
CO 4	S (3)	S (3)	M (2)	M (2)	M (2)	S(3)	S(3)	M(2)	M (2)	L(1)
CO 5	L(1)	M (2)	M (2)	S (3)	L(1)	L(1)	S(3)	S(3)	L(1)	L(1)
W.AV.	1.6	2.2	2	2	1.4	2.2	2.2	2.2	1.6	0.4

COURSE OUTCOMES VS PROGRAMME OUTCOMES

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

COURSE OUTCOMES VS PROGRAMME SPECIFIC OUTCOMES

СО	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	L(1)	L(1)	S(3)	L(1)	M(2)
CO 2	M (2)	S(3)	M(2)	S(3)	M(2)
CO 3	M(2)	S(3)	S(3)	M(2)	L (1)
CO 4	M(2)	M(2)	M(2)	S(3)	M(2)
CO 5	M(2)	S(3)	S(3)	M(2)	M(2)
W.AV.	1.8	2.4	2.6	2.2	1.8

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



	II-SEMESTER										
Core-2	Cour	rse code 727102	PRINCIPLE	S OF MULTIMEDIA	T	Credits: 4	H	Iours: 5			
				UNIT - I							
Objectiv	Objective 1 To, understand the concept of Multimedia and their characteristics.										
INTROI	DUCTI	ION									
Introduct	Introduction to Multimedia – Characteristics of Multimedia Presentation – Multimedia Components –										
Promotio	on of l	Multimedia Base	ed Components	– Digital Representa	tion –	Media and	Data	Streams -			
Multimed	dia Arc	hitecture – Multi	mediab Docum	ents – Visual Display S	ystem.						
Outcome	e 1	Learner underst	and the concep	t of Multimedia and th	eir con	nponents.		K2			
		·		UNIT - II							
Objectiv	re 2	To familiaze the	concepts of ele	ments of Multimedia.							
ELEME	NTS C	FMULTIMED	Α								
Text: Ty	pes, Fo	ont, Unicode Star	ndard, Text Cor	npression, File Formate	s – Ima	ge: Types, In	nage	Processing,			
Standard	s, Spec	cification, Device	e Independent (Color Models, Gamma	Corre	ction, File Fo	orma	ts – Video:			
Video Si	ignal T	ransmission, Sig	nal Formats, Br	roadcasting Standards,	Digital	Video Stand	lards,	PC Video,			
Video Fi	le Forn	nats – Audio: Ac	oustics, Charact	eristics of Sound - Ele	ments c	of Audio Syste	em: N	Microphone,			
Amplifie	r, Loud	dspeaker, Audio	Mixer, Digital	Audio, MIDI – Graphi	es: Con	nponents of C	Graph	ics System,			
Co-ordin	ate Sys	stem, Plotter – In	ntroduction to 2	D and 3D Graphics –	Surface	e Characterist	tics a	nd Texture,			
Illuminat	tion Mo	odels – Animation	n: Key Frames <mark>a</mark>	nd Tweening Techniqu	es – 2D	and 3D Anin	nation	n			
Outcome	e 2	Realize the conc	epts of various of	elements of Multimedia				K3			
		·	8	UNIT - III							
Objectiv	re 3	To educate the	ty <mark>pes</mark> and Te cl	hni <mark>ques of M</mark> ultimedia	systen	1.					
MULTI	MEDIA	A SYSTEMS	- Q V		0						
Compres	sion Ty	ypes and Technic	ues: CODEC, C	GIF Coding Standards, J	PEG, N	MPEG – Mult	timed	lia Database			
System –	- User]	Interfaces – OS N	Aultimedia Supp	oort – Hardware Suppor	t – Rea	al Time Proto	cols -	- Play Back			
Architect	tures –	Synchronization	- Document A	rchitecture – Hyperme	dia Co	ncepts: Hyper	rmed	ia Design –			
Digital C	opyrig	hts.						-			
Outcome	e 3	Learners unders	tand the concept	t of various techniques	of Mu	ltimedia Syst	em.	K2			
			UNI	T - IV							
Objectiv	'e 4	To make them	understand diffe	rent Multimedia Tools.							
MULTIN	MEDIA	A TOOLS									
Authorin	g Tool	s – Features and	Types – Card an	nd Page Based Tools –	Icon ar	nd Object Bas	ed T	ools – Time			
Based To	- ools – C	Cross Platform Au	thoring Tools –	Editing Tools – Paintin	ng and l	Drawing Tool	s – 3	D Modeling			
and Anin	nation '	Tools – Image Ed	iting Tools – So	ound Editing Tools – Di	gital M	ovie Tools.		C			
Outcome	e 4	Learners a	nalyze the princ	iples of usage of Multir	nedia T	ools.		K3			
<u>I</u>		I						I			

		UNIT - V		
Objective 5	To educate the concept of s	script writing	; in Multimedia.	
MULTIMEDIA AP	PLICATION DEVELOPN	AENT		
Software Life Cycle	- ADDIE Model – Conce	eptualization	- Content Collection - Sto	ory Board–Script –
Authoring Metaphors	s – Testing – Report Writing	g – Document	tation.	
Outcome 5	Learners discuses the appli	ication of Mu	ltimedia in Education.	K2
Suggested Readings	:-			· · · · · · · · · · · · · · · · · · ·
Büyüköztürk, G. (20	14). Data analysis Booklet fo	or Social Scie	ences: Statistics, Research De	esign and
SPSSPractices. 20th	press. Ankara: Pegem Acade	emia.Chua, Y	. P. (2006). Methods and Stat	tistics: Elementary
Statistics Research. K	Kuala Lumpur: McGrawHill.			
Clark, R. C., & Maye	r, R. E. (2016). E-learning a	and the science	e of instruction: Proven	
guidelines forconsum	ters and designers of multim	edia learning	g. New Jersey: John Wiley &	Sons.
Clark, L. A. & Watsc	on, D. (1995). Constructing v	validity: Basi	c issues in objective scale dev	velopment.
Psychological Assess	sment, 7, 309-319.			
Cohen, L., Manion, I	, & Morrison, K. (2007). R	esearch Meth	ods in Education. New York	: Routledge, Taylor
&Francis Group.Cres	swell, J. W. (2003). Research	h design: Qua	alitative, quantitative and mix	ked approaches.
2nd ed., LosAngeles:	Sage			
Publication				
Online Resources	2 6		30 3	
https://www.britannie	ca.com/art/painting/Element	s-of-design		
https://www.britannie	ca.com/art/painting/Element	s-of-design		
http://ecoursesonline.	iasri.res.in/mod/page/view.p	hp?id=12090	<u>)5</u>	
K1-Knowledge	K2-Understanding	K3-Apply	K4-Analyze K5-Evaluate	K6-Create
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Course Designed by:	Dr. P. Studert Sibi
Suggested Readings Büyüköztürk, G. (201 SPSSPractices. 20th J Statistics Research. K Clark, R. C., & Maye guidelines forconsum Clark, L. A. & Watso Psychological Assess Cohen, L., Manion, L & Francis Group.Crea 2nd ed., LosAngeles: Publication Online Resources https://www.britannio https://www.britannio https://ecoursesonline.	:- 14). Data analysis Booklet for press. Ankara: Pegem Acade Kuala Lumpur: McGrawHill. er, R. E. (2016). E-learning and hers and designers of multimer on, D. (1995). Constructing wards sment, 7, 309-319. , & Morrison, K. (2007). R swell, J. W. (2003). Research sage ca.com/art/painting/Element ca.com/art/painting/Element iasri.res.in/mod/page/view.p	or Social Scie emia.Chua, Y and the science aedia learning validity: Basic esearch Meth h design: Qua s-of-design bhp?id=12090 K3-Apply	ences: Statistics, Research De 7. P. (2006). Methods and Stat re of instruction: Proven 9. New Jersey: John Wiley & 10. c issues in objective scale dev 10. nods in Education. New York 10. alitative, quantitative and mix 10. alitative, quantitative and mix 10. alitative, Guantitative and mix 10. alitative, Guantitative, Guant	ssign and tistics: Elementar Sons. relopment. : Routledge,Taylo ked approaches. <u><b>K6-Create</b></u> Dr. P. Studert Si

<b>Course Outco</b>	ome VS Prog	ramme Outcomes
---------------------	-------------	----------------

CO	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10
CO1	L(1)	L(1)	L(1)	L(1)	L(1)	M(2)	L(1)	-	-	-
CO2	M(2)	M(2)	M(2)	M(2)	L(1)	S (3)	-	L(1)	L(1)	L(1)
CO3	S (3)	S (3)	S (3)	M(2)	M(2)	S (3)	L(1)	L(1)	M(2)	L(1)
CO4	S (3)	S (3)	M(2)	M(2)	M(2)	S (3)	L(1)	L(1)	M(2)	L(1)
CO5	L(1)	M(2)	M(2)	S (3)	S(3)	S (3)	-	-	L(1)	L(1)
W.AV	2	2.2	2	2	1.8	2.8	0.6	0.6	1.2	0.8

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

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	L (1)	L (1)	L (1)	L (1)
CO2	S (3)	M (2)	M (2)	M (2)	L (1)
CO3	S (3)	S (3)	S (3)	M (2)	L (1)
CO4	S (3)	S (3)	M (2)	M (2)	L (1)
CO5	S (3)	M (2)	M (2)	M (2)	M (2)
W.AV	2.8	2.2	2	1.8	1.2

**Course Outcome VS Programme Specific Outcomes** 

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



Core	Coursecode 727103	2D ANIMATION	Р	Credits: 5	Hours: 10
	121105	UNIT - I			
Objective 1	To, understand the	concept of 2D Animation			
y WORKSPA	CE AND TOOLS	1			
Introduction	to 2D Animation – We	orkspace – Panels – Timeline – Co	ntent a	nd Stage – Ui	nderstanding
Strokes and	Fills – Creating and	Editing Shapes, Curves and Text -	- Grad	ient Fills – A	ligning and
Distributing	Objects – Creating Symb	pols and Instances.			88
Outcome 1	Learner understand	the concept of 2D Animation			K2
		UNIT - II			
<b>Objective 2</b>	To familiaze the co	ncepts of various animating symbols			
ANIMATIO	N: BASICS				
Motion Twe	ening – Motion Editor	- Adding Motion Eases - Animati	ng Syı	mbols: Position	n, Pacing &
Timing, Tra	nsparency, Filters, Tra	nsformations, Motion Path, Swapp	ing Ta	argets, Nested	Animation,
Frame-by-Fr	ame Animation.	A LIDEED ED AL	-	-	
Outcome 2 Realize the concepts of animating symbols.					
		UNIT - III			
Objective 3	To educate the adv	vanced form of animation.			
Moves – Sha	pes and Masks: Shape T	weening, Shape Hints, Masked Layer	· Anim	ation – Anima	ting Color.
Outcome 5			mati	JII.	N2
Obioativo 1	To make them unde	rstand the Virtual Peoplity			
ODJECUVE 4		Istand the Virtual Reality			
Creating Bu	ittons and Animated F	Buttons Action Script and JavaScr	int _	Virtual Realit	v VR 360
Documents.	Interactivity, Camera Po	sition. Graphics. Animation.	ιpι	virtuar recard	.y. VIC 500
Outcome 4	Learners analyze th	e principles of Virtual Reality.			K3
	j200000000000000000000000000000000	UNIT - V			
<b>Objective 5</b>	To educate the cond	cept of working with video and audio			
WORKING	WITH AUDIO AND VI	DEO			
Using Sound	ls – Importing Video – H	Encoding Option in Media Encoder –	Publis	shing in HTMI	5, Desktop
Applications	and Mobile Devices. Ch	allenges in Creating Animations for	Respor	nsive Designs.	
Outcome 5	Learners discuses th	ne application of animation in Education	on.		K2
Suggested R	Readings :-				
Russell Chu	n. (2018). Adobe Anima	te CC Classroom in a Book (1st. ed.).	Pearso	on Education.	
Gack Davids	son. (2017). Adobe Anim	nate CC 2017: The Complete Beginne	r's Gui	ide. Van Helos	tein
Publication					

# **Online Resources**

https://www.britannica.com/art/painting/Elements-of-design https://www.britannica.com/art/painting/Elements-of-design http://ecoursesonline.iasri.res.in/mod/page/view.php?id=120905

K1-Knowledge	K2-Understanding	K3-Apply	K4-Analyze	K5-Evaluate	K6-Create
Course Designed by:	Dr. P. Studert Sibi				

# COURSE OUTCOMES VS PROGRAMME OUTCOMES

СО	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	L (1)	L (1)	L (1)	L(1)	L (1)	M (2)	L (1)	-	-	-
CO 2	M (2)	M (2)	M (2)	M (2)	L(1)	S (3)	-	L (1)	L (1)	L (1)
CO 3	S (3)	S (3)	S (3)	M (2)	M (2)	S (3)	L (1)	L (1)	M (2)	L (1)
CO 4	S (3)	S (3)	M (2)	M (2)	M (2)	S (3)	L (1)	L (1)	M (2)	L (1)
CO 5	L (1)	M (2)	M (2)	S (3)	S (3)	S (3)	8	-	L (1)	L (1)
W.AV.	2	2.2	2	2	1.8	2.8	0.6	0.6	1.2	0.8

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

# COURSE OUTCOMES VS PROGRAMME SPECIFIC OUTCOMES

СО	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	M (2)	L (1)	L (1)	L (1)	L (1)
CO 2	S (3)	M (2)	M (2)	M (2)	L (1)
CO 3	S (3)	S (3)	S (3)	M (2)	L (1)
CO 4	S (3)	S (3)	M (2)	M (2)	L (1)
CO 5	S (3)	M (2)	M (2)	M (2)	M (2)
W.AV.	2.8	2.2	2	1.8	1.2

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

Core	Co	ursecode: 727104	<b>3D ANIMATION</b>	Р	Credits: 5	Hours: 10
			UNIT - I	I		
Objectiv	'e 1	To, understand the c	oncept of 3D Animation			
MODEL	LING	l T				
Creating	geor	netric forms utilizi	ng points, vectors and polygon	s and	curves. Dis	cussing the
applicati	on of	Open GL and how	pixels, light and RGB colors are o	lisplay	ed on a comp	outer screen.
Manipula	ating o	objects quickly in per	rspective, top, side and front views	simult	aneously	
Outcom	e 1	Learner understand	the concept of utilization of 3D A	Animat	ion	K2
			UNIT - II			
Objectiv	'e 2	To familiaze the con	cepts of creating texture map.			
TEXTU	RING	۲ T				
Introduct	tion to	o texturing, working	with Diffuse, Opacity and Reflec	tion, B	asics of UV 1	unwrapping,
Creating	textu	re maps, Bump and I	Displacement Mapping, Introduction	on to V	ideo post, Int	roduction to
standard	lights		151/5/20			
Outcom	e 2	Realize the concepts	of texturing			К3
			UNIT - III			I
Objectiv	'e 3	To educate the adv	anced form of animation.			
ANIMA'	ΓΙΟΝ	1 Alexandre	Star Star			
Animatio	on Pri	nciples and Process	Basic Animation with types of	Balls. V	Working with	Animation
Editor ar	nd Too	ols. Kev frame Anim	ation, Nonlinear Animation, Path A	Animat	ion.	
Outcom	e 3	Learners understand	the concept of advanced form of	animat	tion.	K2
Objectiv	<u>a</u> 1	To make them under	UNIT - IV	ovpros	ion and voia	a racordina
EACIAI	EVD		SVNC	expres		e recording.
Foundati	on of	good facial expressi	on expression chart and voice rec	ording	how to creat	te lin synch
subtle fa		expressions to suit t	he personality of the character a	nd the	accent style	of the pre-
recorded	dialo	aue	the personanty of the character a	nu the	accent style	of the pre-
Outcom	e <b>4</b>	Learners analyze the	principles of voice recording			K3
		Learners analyze the	UNIT - V			110
Obiectiv	ve 5	To educate the conce	ept of advanced form of modeling.			
LIGHTI	NG A	ND RENDERING	<u></u>			
Working	with	Advanced Modelli	ng and Light Tracing with Rad	iosity.	Using Atmo	spheric and
Render E	Effects	Retracing and ment	al ray effects with Batch and Netw	ork Re	ndering.	1
Outcom	e 5	Learners discuses the	e application of animation in Educa	ation.		K2
L						

## **Suggested Readings :-**

Ko, C.B. A brief review of facial emotion recognition based on visual information. Sensors 2018, 18, 401.

Li, H.; Sun, J.; Xu, Z.; Chen, L. Multimodal 2D + 3D facial expression recognition with deep fusion convolutional neural network. IEEE Trans. Multimed. 2017, 19, 2816–2831.

Bejaoui, H.; Ghazouani, H.; Barhoumi, W. Fully automated facial expression recognition using 3D morphable model and mesh-local binary pattern. In Proceedings of the International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVIS), Antwerp, Belgium, 18–21 September 2017; Springer: Cham, Switzerland, 2017; pp. 39–50.

Mishra, B.; Fernandes, S.L.; Abhishek, K.; Alva, A.; Shetty, C.; Ajila, C.V.; Shetty, D.; Rao, H.; Shetty, P. Facial

expression recognition using feature based techniques and model based techniques: A survey. In Proceedings of the 2015 2nd International Conference on Electronics and Communication Systems (ICECS), Coimbatore, India, 26–27 February 2015; pp. 589–594.

Danelakis, A.; Theoharis, T.; Pratikakis, I. A survey on facial expression recognition in 3D video sequences. Multimed. Tools Appl. 2015, 74, 5577–5615.

## **Online Resources**

https://www.britannica.com/art/painting/Elements-of-design https://www.britannica.com/art/painting/Elements-of-design http://ecoursesonline.iasri.res.in/mod/page/view.php?id=120905

K1-Remember	K2-Understand K3-A	ply K4-Analyze	K5-Evaluate	K6-Create
Course Desig	<b>med by:</b> Dr. J. Kumar	A a kall		

	L (1)	M (2)	M (2)	S (3)	S (3)	S (3)	-	-	L (1)	L (1)
CO 5										
CO 4	S (3)	S (3)	M (2)	M (2)	M (2)	S (3)	L (1)	L (1)	M (2)	L (1)
CO 3	S (3)	S (3)	S (3)	M (2)	M (2)	S (3)	L (1)	L (1)	M (2)	L (1)
CO 2	M (2)	M (2)	M (2)	M (2)	L (1)	S (3)	-	L (1)	L (1)	L (1)
CO 1	L (1)	M (2)	L (1)	-	-	-				
СО	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10

# COURSE OUTCOMES VS PROGRAMME OUTCOMES

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

# **COURSE OUTCOMES VS PROGRAMME SPECIFIC OUTCOMES**

СО	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	M (2)	L (1)	L (1)	L (1)	L (1)
CO 2	S (3)	M (2)	M (2)	M (2)	L (1)
CO 3	S (3)	S (3)	S (3)	M (2)	L (1)
CO 4	S (3)	S (3)	M (2)	M (2)	L (1)
CO 5	S (3)	M (2)	M (2)	M (2)	M (2)
W.AV.	2.8	2.2	2	1.8	1.2

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





# **EDUCATION CAMPUS**