ALAGAPPA UNIVERSITY

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

DIRECTORATE OF COLLABORATIVE PROGRAMMES



Certificate in 3D Animation

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

GENERAL INSTRUCTIONS AND REGULATIONS

Certificate in 3D Animation conducted by Alagappa University, karaikudi, Tamil Nadu through its Collaborative Institution Applicable to all the candidates admitted from the academic year 2023 onwards.

1. Eligibility:

A pass in the SSLC Examination conducted by the Government of Tamil Nadu, or an examination accepted as equivalent there to by the syndicated for admission to Certificate in Animation

2. Admission:

Admission is based on the marks in the qualifying examination.

3. Duration of the course:

The course shall extend over a period of 6 Months under non-semester pattern

4. Standard of Passing and Award of Division:

- a. Students shall have a minimum of 40% of total marks of the university examinations in each subject. The overall passing minimum is 40% both in aggregate of Continuous Internal Assessment and external in each subject.
- b. The minimum marks for passing in each theory / Lab course shall be 40% of the marks prescribed for the paper / lab.
- c. A candidate who secures 40% or more marks but less than 50% of the aggregate marks, shall be awarded **THIRD CLASS.**
- d. A candidate who secures 40% or more marks but less than 60% of the aggregate marks, shall be awarded **SECOND CLASS**
- e. A candidate who secures 60% or more of the aggregate marks, shall be awarded FIRST CLASS
- f. The Practical/project shall be assessed by the two examiners, by an internal examiner and an external examiner.

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

6. Attendance:

Students must have earned 75% of attendance in each course for appearing for the examination.

Students who have earned 74% to 70% of attendance to be applied for condonation in the prescribed form with the prescribed fee.

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

7. Examination:

Candidate must complete course duration to appear for the university examination. Examination will be conducted with concurrence of Controller of Examinations as per the Alagappa University regulations. **University may send the representatives as the observer during examinations**. University Examination will be held at the end of the each semester for duration of 3 hours for each subject. Certificate will be issued as per the AU regulations. Hall ticket will be issued to the candidates upon submission of the list of enrolled students along with the prescribed course fee.

8. Question Paper Pattern:

Dur	ation: 3 Hours
:	$10 \ge 02 = 20$
:	05 X 05=25
:	03 X 10=30
	Dur : :

9. Miscellaneous

a. Each student posses the prescribed text books for the subject and the workshop tools as required for theory and practical classes.

b. Each student is issued with an identity card by the University to identify his/her admission to the course.

c. Students are provided library and facilities for development of their studies.

d. Students are to maintain the record of practicals conducted in the respective laboratory in a separate Practical Record Book and the same will have to be presented for review by the University examiner.

e. Students who successful complete the course within the stipulated period will be awarded the degree by the University.

10. Fee Structure

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

Non-semester Pattern

Examination	Course Fee payment deadline
April/May	Fee must be paid before 30 th October academic year

11. Other Regulations:

Besides the above, the common regulation of the University shall also be applicable to this programme.

Certificate in 3D Animation

	Course	Title of the Deper	Cn	Max. Marks				
Sem.	Code	The of the raper	Cr.	Int.	Ext.	Total		
	21911	Autodesk Combustion	3	25	75	100		
Ι	21912	Autodesk 3DS Max	3	25	75	100		
	21913	Autodesk Maya	3	25	75	100		
		Total	9			300		

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2023 Onwards

		Certificate in 3D Animation							
21	911	AUTODESK COMBUSTION	Credits :3						
		Unit– I							
Objective 1	Students who	tudents who want to learn visual effects and compositing							
Wire removal									
Outcome 1	Understandi	ng this software will help aspiring students a	nd experienced K2						
	professionals to improve their skills in their field of animation and visual								
	effects.								
	Questions: c Relate, Show	lassify, compare, convert, Explain,Express, Illus ,Summaries, Translate.	strate, Outline,						
		Unit– II							
Objective 2	To improve t	heir skills over combustion.							
Green matt/ blu	ie matt remova								
Outcome 2	To became a	trained professional in combustion field	K2						
	Questions: c	lassify, compare, convert, Explain,Express, Illus	strate, Outline,						
	Relate, Show	Summaries, Translate.							
		Unit– III							
Objective 3	To understar	d how to work with 3d animation using combust	ion.						
Masking									

Outcome 3	Become outstanding designer in vfx for a multitude of projects.	K3					
	Question: Construct, Develop, Discover, Identify,Interview, modify, Predict, Practice, Solve.						
	Unit–IV						
Objective 4	To create visually engaging motion graphics and animations.						
Specil effects	to video files						
Outcome 4 The students can able to redefine the video content in web sites							
	Question: Categories, Classify,Compare, Distinguish, Generate, Examine,						
	Interpret, Operate, Simplify.						
	Unit–V						
Objective 5	To create the applications in film making process						
Save methods							
Outcome 5	It makes local and global job opportunities to the students immediately						
	Question: Assess, Choose, Compare, Determine, Evaluate, Explain, Interpret, Justify, Measure, Priorities, Prove, Select.						
References:-							
1. The	e Art of 3D Computer Animation and Effects, Isaac Kerlow, Wiley Publication.						
	-						

(On what level the COs & POs correlated each other -based on that we have to give marks) Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	S (3)	M (2)	L (1)	S (3)	S (3)	S (3)	L (1)	L (1)	M (2)
CO2	L (1)	M (2)	S (3)	M (2)	S (3)	M (2)	L (1)	M (2)	L (1)	S (3)
CO3	S (3)	L (1)	M (2)	S (3)	M (2)	L (1)	M (2)	S (3)	M (2)	L (1)
CO4	M (2)	M (2)	L (1)	M (2)	L (1)	-	S (3)	M (2)	S (3)	M (2)
CO5	M (2)	L (1)	S (3)	L (1)	M (2)	M (2)	M (2)	L (1)	M (2)	M (2)
W.AV	1.8	1.6	2	1.8	2	1.4	2	1.6	1.6	1.8

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

Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S (3)	S (3)	L (1)	L (1)	M (2)
CO2	M (2)	M (2)	L (1)	S (3)	M (2)
CO3	M (2)	M (2)	M (2)	L (1)	L (1)
CO4	L (1)	M (2)	M (2)	S (3)	M (2)
CO5	L (1)	M (2)	M (2)	S (3)	M (2)
W.AV	1.6	2	1.4	2	1.6

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

Certificate in 3D Animation

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	Certificate in 3D Animation							
219	912 AUTODESK 3DS MAX Credit	s :3						
	Unit– I							
Objective 1	To learn the skills required for 3d modelling and animation purposes.							
Intro About 3D	s Max, Introduction Tools & Menus, Different Types of Modeling							
Outcome 1	To improve their designing skills in 3d animation	K3						
	Question: Construct, Develop, Discover, Identify,Interview, modify, Predict, Practice, Solve.							
	Unit– II							
Objective 2	To learn about architectural modelling							
Set Modeling, V	UV Texturing							
Outcome 2	Able to perform practical software for learning and practicing animation	K2						
	Questions: classify, compare, convert, Explain,Express, Illustrate, Outline, Relate, Show,Summaries, Translate.							
	Unit– III							
Objective 3	To learn and create various unique built-in primitive shapes							
Materials Apply	y, Lighting							
Outcome 3	To develop and implement real time objects with animation and mixture							
	effects							
	Question: Categories, Classify,Compare, Distinguish, Generate, Examine, Interpret, Operate, Simplify.							
	Unit-IV							
Objective 4	To learn and create simulation with built in shapes							
Camera Handli	ng, Rendering							
Outcome 4	The students can obtain various skills and techniques required to develop	К5						
	various models and massive games.							
	Question: Assess, Choose, Compare, Determine, Evaluate, Explain,							
	Interpret, Justify, Measure, Priorities, Prove, Select.							
Obiostino 5	Unit-V							
Save methods	Project							
Outcome 5	Able to know about the subset of 3d programming	K6						
	Question: Chaose Compile Compose Construct Create Develop Discuss							
	Elaborate.Estimate. Formulate. Maximize. Minimize.Modify. Propose.							
	Solve.							
References :-	•							
1. 3D An	imation for the Raw Beginner, Roger King, CRC Press Publication							

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S (3)	S (3)	M (2)	L (1)	S (3)	M (2)	S (3)	L (1)	L (1)	M (2)
CO2	M (2)	M (2)	S (3)	M (2)	S (3)	L (1)	L (1)	L (1)	M (2)	S (3)
CO3	L (1)	L (1)	M (2)	S (3)	M (2)	S (3)	M (2)	M (2)	S (3)	L (1)
CO4	M (2)	-	L (1)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	L (1)	M (2)	S (3)	L (1)	M (2)	M (2)	M (2)	M (2)	L (1)	M (2)
W.AV	1.6	1.4	2	1.8	2	1.8	2	1.6	1.6	1.8

(On what level the COs & POs correlated each other -based on that we have to give marks) Mapping Course Outcome VS Programme Outcomes

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

Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S (3)	M (2)	L (1)	S (3)	L (1)
CO2	M (2)	M (2)	L (1)	M (2)	S (3)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)
CO4	L (1)	M (2)	M (2)	M (2)	S (3)
CO5	L (1)	M (2)	M (2)	M (2)	S (3)
W.AV	1.6	1.6	1.4	2	2

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

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	Certificate in 3D Animation								
21	913 AUTODESK MAYA	Credits :3							
	Unit– I								
Objective 1	To understand about the motion graphic features of mash nodes and 3d graphic tool sets								
Intro About MA	AYA, Introduction Tools & Menus, Different Types of Modeling								
Outcome 1	Students can able to create animated movies and cartoons	K2							
	Questions: classify, compare, convert, Explain, Express, Illustrate, O	Dutline,							
	Relate, Show, Summaries, Translate.								
	Unit– II								
Objective 2	To understand and learn about the 3d animation features								
Character Mod	leling, UV Texturing								
Outcome 2	The learner can able to improve their designing skills in 3d animation	K2							
	Questions: classify, compare, convert, Explain, Express, Illustrate, O Relate, Show, Summaries, Translate,	utline,							
	Unit– III	I							
Objective 3	To understand and learn about 3d modelling features involved w	To understand and learn about 3d modelling features involved with it are uv editor							
	workflow look and feel, polygon modelling, and open subdiv support.								
Materials Apply	y, Lighting								
Outcome 3	Able to do include clips and filter effects	K4							
	Question: Categories, Classify,Compare, Distinguish, Generate, Exa Interpret, Operate, Simplify.	imine,							
	Unit-IV								
Objective 4	To know about dynamics and effects								
Camera Handli	ng, Rendering								
Outcome 4	Able to make a short movie with good writing.	K5							
	Question: Assess, Choose, Compare, Determine, Evaluate, E	Explain,							
	Interpret, Justify, Measure, Priorities, Prove, Select.	1							
	Unit–V								
Objective 5	To learn about interactive programming and simulation								
Save methods,	Project								
Outcome 5	Able to create the channel and implement the creativity	K5							
	Question: Assess, Choose, Compare, Determine, Evaluate, E Interpret, Justify, Measure, Priorities, Prove, Select.	Explain,							
References:- 1. Charac	ter Animation in 3D, Steve Roberts, Focal Press Publication								

(On what level the COs & POs correlated each other -based on that we have to give marks) Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	L (1)	M (2)	S (3)	S (3)	S (3)	L (1)	S (3)
CO2	S (3)	M (2)	S (3)	L (1)	L (1)	S (3)	L (1)	M (2)	M (2)	M (2)
CO3	L (1)	S (3)	M (2)	M (2)	S (3)	M (2)	M (2)	L (1)	S (3)	L (1)
CO4	M (2)	M (2)	L (1)	S (3)	M (2)	L (1)	S (3)	-	M (2)	M (2)
CO5	M (2)	L (1)	S (3)	M (2)	L (1)	L (1)				
W.AV	1.8	1.8	2	1.6	1.8	2	2	1.4	1.6	1.6

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S (3)	M (2)	S (3)	L (1)	L (1)
CO2	M (2)	M (2)	M (2)	L (1)	S (3)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)
CO4	M (2)	M (2)	L (1)	M (2)	S (3)
CO5	M (2)	M (2)	L (1)	M (2)	S (3)
W.AV	2	1.6	1.6	1.4	2

Mapping Course Outcome VS Programme Specific Outcomes

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