

DEPARTMENT OF MASS COMMUNICATION Sharda School of Media, Film & Entertainment

Bachelor of Science (Hon. /Hon. with Research)
(Animation, VFX & Gaming Design)
Academic Year 2024-28
Programme Code: SMF0119





Name of School: Sharda School of Media, Film & Entertainment

Bachelor of Science (Hon. /Hon. with Research) (Animation, VFX & Gaming Design)

TERM: I Batch-2024-28

				Teach	ing		Type of Course:
		Subjects	Load			CC	
S. No.	Subject Code		L	Т	P	Credits	AECC SEC DSE
THE	ORY SUBJECTS	5					
1	AVG121	Digital Art Techniques*	2	2	0	4	CC
2	VAC103	Environmental Management	0	2	2	3	AECC
3	AVG122	2D Game Design Development*	1	2	0	3	
	AVG123	2D Animation Techniques*					DSE
JURY	SUBJECTS	l	1	I I			
4	OPE	Audio & Visual Production Process	0	2	2	3	AECC
5	AVG 124	UI & UX Design Tools	0	0	2	1	CC
6	AVG 125	Foundation Art Techniques	0	0	2	1	DSE
	AVG 126	Game Programming Fundamentals					
7	ARP101	Communicative English-I	1	0	2	2	AECC
8	VOF105	Script writing, Storyboard &	0	2	2	3	SEC
		Animatic					
		TOTAL CREDITS	l	<u> </u>		20	

^{*} Evaluation is to be done as Jury Subject.





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$Bachelor\ of\ Science\ (Hon.\ /Hon.\ with\ Research)$

(Animation, VFX & Gaming Design)

TERM: II Batch-2024-28

			7	Teach	ing		Type of Course:		
		Subjects		Loa	d		CC		
S.No.	Subject Code					_	AECC		
			L	T	P	Credits	SEC		
							DSE		
THEC	THEORY SUBJECTS								
1	AVG129	Hard Surface Modeling &	2	2	0	4	CC		
		Texturing*							
2	AVG130	3D Animation Fundamentals*	1	2	0	3	CC		
JURY	SUBJECTS			ı					
3	OPE	Material Animation Techniques	0	2	2	3	AECC		
4	AVG131	Drawing & Painting	0	0	2	1	SEC		
5	AVG132	Basics of Editing & Compositing	0	0	2	1	SEC		
6	VOF106	3D Lighting & Rendering	0	2	2	3	SEC		
7	ARP102	Communicative English-II	1	0	2	2	AECC		
8	BCJ111	Indian Culture and Art Forms	0	2	2	3	AECC		
9	VAF006	Stress and Time Management	-	-	-	-	AECC		
		TOTAL CREDITS		ı		20			

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Bachelor of Science (Hon. /Hon. with Research) (Animation, VFX & Gaming Design)

TERM: III Batch-2024-28

			7	Teach	ing		Type of Course:		
				Loa	d		CC		
S.No.	Subject Code	Subjects				-	AECC		
	Code		L	Т	P	Credits	SEC		
							DSE		
THEC	THEORY SUBJECTS								
1	AVG221	Character Modeling & Sculpting	2	2	0	4	CC		
		Techniques*							
2	AVG222	VFX Compositing-I*	1	2	0	3	CC		
3	AVG223	3D Game Design & Development*	1	2	0	3	DSE		
	AVG224	Character Animation*							
JURY	SUBJECTS	S				<u> </u>			
4	OPE	Radio Jockeying & Program	0	2	2	3	AECC		
		Production*							
5	AVG225	Texture Painting Tools	0	0	2	1	CC		
6	AVG226	Anatomy Drawing	0	0	2	1	AECC		
7	ARP207	Communicative English-III	1	0	2	2	AECC		
		Logical Skill Building and Soft Skills							
8	AVG227	Gaming Devices	0	0	2	1	DSE		
	AVG228	Photography and VFX							
9	RBL001	Research Based Learning – I	0	0	4	0	AECC		
10	VOF206	Motion Graphics & TVC	0	2	2	3	SEC		
		TOTAL CREDITS	<u> </u>			21			

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TERM: IV Batch-2024-28

				Teach Loa	_		Type of Course: CC	
S.No.	Subject Subjects		L	Т	P	Credits	AECC SEC DSE	
THEO	RY SUBJEC	TS						
1	AVG230	VFX Compositing-II*	2	2	0	4	CC	
2	AVG239	AR VR *	1 2 0		3	CC		
3	AVG232	Game Testing*				3	DSE	
	AVG233	Particles & FX *	1	2	0			
JURY	JURY SUBJECTS							
4	OPE	Basic Still Photography*	0	2	2	3	AECC	
5	AVG234	VFX & Gaming Animation	0	0	2	1	CC	
6	AVG235	Visual Scripting for Game Development	0	0	2	1	AECC	
7	ARP306	Communicative English-IV- Campus To Corporate	1	0	2	2	AECC	
8	AVG236	Game Architecture Development	0	1	2	2	DSE	
	AVG237	3D Walk-Through						
9	RBL002	Research Based Learning – II	0	0	4	0	AECC	
10	VAF008	Innovation & Entrepreneurship	-	-	-	-	AECC	
		19						

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Bachelor of Science (Hon. /Hon. with Research) (Animation, VFX & Gaming Design)

TERM: V Batch-2024-28

				Геасh Loa	_		Type of Course: CC
S.No.	Subject Code	Subjects	L	Т	P	Credits	AECC SEC DSE
THEC	ORY SUBJEC	CTS	•	•			
1	AVG321	Introduction to Game Engine*	1	2	0	3	CC
2	AVG340	AI for Gaming *	1	2	0	3	CC
3	AVG323	Camera Tracking & Match-moving*	1	2	0	3	CC
4	AVG324	Web & E-Business and Game Development*	1	2	0	3	DSE
	AVG325	Rotoscopy, Paint & Comping *					
JURY	SUBJECTS		•	•			
5	AVG326	Lighting & Rendering and Photorealism	0	1	2	2	Core
6	AVG327	Sound Design Techniques	0	1	2	2	Core
7	AVG328	Multimedia Design	0	0	2	1	DSE
	AVG329	Fluid Dynamics & Plugins					
8	RBL003	Research Based Learning – III	0	0	2	1	AECC
9	INC001	Industry Connect	0	2	0	2	AECC
		TOTAL CREDITS	1	1		20	

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Name of School: Sharda School of Media, Film & Entertainment

Bachelor of Science (Hon. /Hon. with Research) (Animation, VFX & Gaming Design)

TERM: VI Batch-2024-28

				Геасh	ing		Type of Course:
				Loa	ıd		CC
S.No.	Subject Code	Subjects				-	AECC
			L	T	P	Credits	SEC
							DSE
JURY	SUBJECTS		1		l .		
1	AVG341	Studio Training					CC
2	AVG342	Portfolio 3D Animation	0	0	28	14	CC
3	AVG343	Portfolio VFX			20		CC
4	AVG344	Portfolio Gaming					AECC
5	OPE	Smartphone Mobile Film Making	0	2	2	3	AECC
6	RBL004	Research Based Learning-4	0	0	2	1	CC
7	CCU108	Community Connect	0	2	0	2	CC
		TOTAL CREDITS		1	ı	20	

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Name of School: Sharda School of Media, Film & Entertainment

Bachelor of Science (Hon. /Hon. with Research) (Animation, VFX & Gaming Design)

TERM: VII Batch-2024-28

			T	eachi	ng		Type of Course:
				Load	l		CC
S.No.	Course Code						AECC
	33.25	Subjects	L	T	P	Credits	SEC
							DSE
THEO	RY SUBJE	CCTS	ı	I.	I.		
1	BCJ 412	Qualitative Research Methods	3	0	0	3	CC
2	BCJ 413	Quantitative Research Methods	3	0	0	3	CC
3	BCJ 414	Communication Research Methods &	3	0	0	3	CC
		Tools					
4	BCJ 415	Statistics for Research	2	1	0	3	CC
JURY	SUBJECT	S	ı	I.	I.		
5	BCJ 416	Qualitative Research Lab	0	1	2	2	CC
6	BCJ 417	Quantitative Research Lab	0	1	2	2	CC
7	BCJ 418	Project on constructing tools for	0	2	2	3	CC
		Media & Communication Research					
8	OPE	Anchoring for Different Media – OPE	0	3	2	4	AECC
		Total	ı	1	1	23	

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TERM: VIII Batch-2024-28

				each	0		Type of Course:	
	~		Load		d		CC	
S.No.	Course Code	Subjects					AECC	
			L	T	P	Credits	SEC	
							DSE	
THE	THEORY SUBJECTS							
1	BCJ 419	Ethical Perspective of Media &	3	0	0	3	CC	
		Communication Research						
JURY	SUBJECT	S	•					
2	BCJ 420	Research Writing Techniques	0	0	2	1	CC	
3	OPE	Digital Media Marketing – OPE	0	3	2	4	AECC	
4	BCJ 421	Media & Communication	0	3	12	9	CC	
		Dissertation - Project						
	Total 17							

^{*} Evaluation is to be done as Jury Subject.





Semester I

Sch	nool: SSMFE	Batch 2024-28						
Pro	ogram: B.Sc. (Animation	Current Academic Year: 2024-25						
,VF	X and Gaming Design)							
Bra	anch: Mass Communication	Semester: 1						
1	Course Code	AVG121						
2	Course Title	Digital Art Techniques*						
3	Credits	4						
4	Contact Hours (L-T-P)	2-2-0						
5	Course Type	Core Compulsory						
6	Course Objective	The purpose of this subject is to provide the students with training met						
		specific industry skills that will assist them in developing creative idea						
		art with emphasis on image manipulation, matte painting and image co						
		editing. The students will receive information that will enable them to:						
		 Understand the design principles used in the creation of digital art. 						
		Familiarize with the terminologies and concepts for creating a	nd					
		manipulatingdigital images.						
		CO1 Explain Digital Art & Industry Application						
		CO2 Understand Digital Color Theory & Design Fundamentals						
		CO3 Use raster graphics and vector graphics tools						
		CO4 Illustrate the Typography						
		CO5 Develop background composition						
		CO6 Design Photo bashing Techniques						
8	Course Description	Students will learn the core basic of digital image editing & manipular						
		digital art work & textures for future use in 3d look development. The	y will also					
9	Outling Sallahus	learn design principles and how to create info-graphics.	COMannina					
9	Outline Syllabus Unit 1	Digital Calan July and Dainting	CO Mapping					
	1	Digital Color, Ink and Painting Digital Color mixing, Custom Brushes, Custom Palette for painting	CO1,CO2					
	2	Digital Concept Art, Environment & Character Painting	CO1,CO2					
	3	Colorizing & Artistic Filters	CO1,CO2					
	Unit 2	Typography Fundamentals	CO1,CO2					
	1	Fonts & Designing Type	CO4					
	2	Typography Design and Art	CO4					
	3	Special Effects for Typography.	CO4					
	Unit 3	Introduction to Raster Graphics Tools	201					
	1	Introduction of Unit	CO3					
	2	Layers	CO3					
	3	Adjustment Tools	CO3					
	4	Painting	CO3					
	5	Creating raster artworks.	CO3					
	6	Image Manipulation.	CO3					
	7	Color Manipulation.	CO3					
		Color Manipulation.						
	8		CO3					
		Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools						
	8	Layer Blending, Masking, Export Parameters.						
	8	Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools	CO3					
	8 Unit 4 1	Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools Introduction of Unit	CO3					
	8 Unit 4 1 2	Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools Introduction of Unit Creating Vector Arts	CO3 CO3					
	8 Unit 4 1 2 3	Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools Introduction of Unit Creating Vector Arts Paths and Shapes Vector brushes and colors	CO3 CO3 CO3					
	8 Unit 4 1 2 3 4	Layer Blending, Masking, Export Parameters. Introduction to Vector Graphics Tools Introduction of Unit Creating Vector Arts Paths and Shapes	CO3 CO3 CO3 CO3 CO3					



Unit 5	Background					
1	Digital Ink and Paint	CO5,CO6				
2	Background Composition	CO5,CO6				
3	Art of Collages, Creating Di	CO5,CO6				
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%			
Text Book/s	Blum, M. Rosen. How to Bu	uild Better Vocabulary. Londo	n:Bloomsbu	ry Publication		
Other References	Adobe Photo shop Cs6 Bible: The Comprehensive, Tutorial Resource, Lisa Danae Dayley, Brad Dayley					
		CC Classroom in a Book with a Principles of Form and Design		·		



C I	LOCATED	D 4 1		daries				
	nool: SSMFE		2024-28					
	ogram: B.Sc. (Animation	Currei	nt Academic Year: 2024-25					
	X and Gaming Design)	α .						
	nch: Mass Communication	Semest						
1	Course Code	AVG1						
2	Course Title		me Design Development*					
3	Credits	3						
4	Contact Hours (L-T-P)	1-2-0						
5	Course Type		Elective					
6	Course Objective		lore 2D platform requirements.					
			ntify the resources for game development.					
			n techniques for setting up a game.					
		To understand the game mechanism.						
		To und	erstand game optimization techniques.					
		CO1	Explain the overview of unity Game engine for 2D game orga	nization				
		CO2	Classify the required assets for the game development.					
		CO3	Relate the game engine and their project set up techniques for	game				
			development.					
		CO4	Contract the entimization techniques using the same engine					
			Contrast the optimization techniques using the game engine					
		CO5	Design the required game visuals for the 2D Game					
		CO6 Develop the prototype for the 2D Game						
8	Course Description	The course is about the understanding the principle of 2D Game Development and						
		Plan th	e resources for a 2D game development					
9	Outline Syllabus			CO Mapping				
	Unit 1		ew of 2D Platform					
	1		ction to unity2d, Downloading and installing, Project Wizard					
			onent, Game object, creating a scene, setting up a new	CO1				
			, Project Structure. Workflow – Folder Organization – File Naming Conventions,					
	2		CO1					
			nterface.					
	3		g Gameplay, Editor features, Asset bundles.	CO1				
	4		d SDK, player setting, Import, File formats, Sounds,					
		perform	nance, Stats panel, Mesh and Geometry, MonoDevelop, the	CO1				
		profile	• •					
	Unit 2	Game	Resources Overview					
	1	Creatin	g Raster & Vector design, Vector Illustration, Modular	CO2				
			, File formats.					
	2		, File formats. ing – Assets – Packages - Game Objects -Components,	CO2				
	2	Import		CO2				
	3	Import	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace.	CO2				
		Importi workin Buildir	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. g Sprites – Sprite Packaging - Main Character – Sprites,					
		Importi workin Buildin Environ	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. ig Sprites – Sprite Packaging - Main Character – Sprites, nment –Design, Sprites, Enemy –Design, Sprites.					
	3	Imports workin Buildin Environ Props -	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, mment –Design, Sprites, Enemy –Design, Sprites. In Poesign-Sprites, Sprite editor, Using External Files, sprite	CO2				
	3	Imports workin Buildin Environ Props -	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite – Props Design - Sprites, Conclusion.	CO2				
	3	Importi workin Buildir Enviror Props - render, Game	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite – Props Design - Sprites, Conclusion. World	CO2				
	3	Importi workin Buildir Enviror Props - render, Game Level of	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. -Design- Sprites, Sprite editor, Using External Files, sprite Props Design - Sprites, Conclusion. World Lesign 101, Level editor, Scene, Manipulating Objects,	CO2				
	3 4 Unit 3 1	Importi workin Buildin Enviror Props - render, Game Level of Layere	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite – Props Design – Sprites, Conclusion. World Idesign 101, Level editor, Scene, Manipulating Objects, d sorting, Tilemap.	CO2 CO2				
	3	Importi workin Buildin Environ Props- render, Game Level of Layere First Lo	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, ment –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite – Props Design – Sprites, Conclusion. World Identity – Sprites – Sprites – Manipulating Objects, d sorting, Tilemap. Evel prefabs, Coding, Player – controller, camera, physics,	CO2				
	3 4 Unit 3 1 2	Importi workin Buildir Environ Props - render, Game Level of Layere First Le collider	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite editor, Using External Files, sprite Props Design - Sprites, Conclusion. World Itelesign 101, Level editor, Scene, Manipulating Objects, d sorting, Tilemap. Evel prefabs, Coding, Player – controller, camera, physics, rs.	CO2 CO2 CO3				
	3 4 Unit 3 1	Importi workin Buildin Enviror Props - render, Game Level of Layere First Le collider Animat	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design, Sprites, Enemy – Design, Sprites. Independent – Sprites, Sprite editor, Using External Files, sprite Props Design - Sprites, Conclusion. World Idesign 101, Level editor, Scene, Manipulating Objects, desorting, Tilemap. Independent – Controller, Camera, physics, properties, Conclusion – Controller, Camera, Physics, properties, Physics,	CO2 CO2				
	3 4 Unit 3 1 2	Importive workin Buildin Enviror Props - render, Game Level of Layere First Lo collider Animal State m	ing – Assets – Packages - Game Objects -Components, g in 2D – behaviors – Workspace. Ing Sprites – Sprite Packaging - Main Character – Sprites, nament –Design, Sprites, Enemy –Design, Sprites. Independent – Design – Sprites, Enemy – Design – Sprites, Sprite editor, Using External Files, sprite Props Design - Sprites, Conclusion. World Itelesign 101, Level editor, Scene, Manipulating Objects, d sorting, Tilemap. Evel prefabs, Coding, Player – controller, camera, physics, rs.	CO2 CO2 CO3				



Unit 4	Visualization for 2D games				
1	Physics - 2D vs. 3D - 2D Settings, Rigid Bodies, Colliders, Joints 2D, Effectors 2D.	CO4			
2	Gameplay, Trigger, Checkpoints, Collectibles, Player Stats, Raycast, Scoring Setup.	CO4			
3	Challenging Gameplay, Enemy, Controller, Game object, Collision, Animation, and Damage.	CO4			
4	Expanding on plat forming, scrolling Backgrounds, Prototyping, Path finding.	CO4			
Unit 5	Game Finalizing Techniques				
1	UI Design, GUI, HUD.	CO5,CO6			
2	Touch controls.	CO5, CO6			
3	Particle System, Audio System.	CO5, CO6			
4	Organization and Optimization, Building and deploying, UGUI.	CO5, CO6			
Evaluations	CA 25% CE(Viva) 25% ETE 50%				
	 by Matthew Johnson (Author), James A. Henley (Author) - Addison-Professional; 1 edition (December 24, 2014) - ISBN-10: 0321957725, 0321957726. Learning Unity 2D Game Development by Example - by Venita Pereir Packt Publishing (August 25, 2014) - ASIN: B00N1X68Z4. Unity Game Development Blueprints Kindle Edition - by John P. Doran (Author) - Packt Publishing (November 11, 2014) - ASIN: B00D 	ISBN-13: 978- ra (Author) -			
Other References	Learn Unity for Android Game Development: A Guide to Game Design, Development, and Marketing - by Adam Sinicki (Author), Apress; 1st ed. edition (July 22, 2017) - ISBN-10: 9781484227039, ISBN-13: 978-1484227039. Mastering Unity 2D Game Development -: Using Unity 5 to develop a retro RPG - by Ashley Godbold (Author), Simon Jackson (Author), Packt Publishing Limited; 2nd edition (14 October 2016) - ISBN-10: 1786463458,ISBN-13: 978- 1786463456. Unity 2d game development: Beginner's Guide to 2D game development with Unity, - by MemLnc (Editor), Moaml Mohmmed (Translator), John Bach (Author); Independently Published (27 June 2020) - ISBN-13: 979-8657626209.				



Program: B.Sc. (Animation ,VFX and Gaming Design) Branch: Mass Communication Semester: 1 1 Course Code AVG123 2 Course Title 2D Animation Techniques* 3 Credits 3 4 Contact Hours (L-T-P) 1-2-0 5 Course Type Core Elective 6 Course Objective Understand the basics of creating 2D digital animation. Creating Key frame and Twining animation. Understand the workflow to create layered 2D digital animation Creating Background design and animation. 8 Course Description Students will learn the different techniques and rules of 2D Digital Animation. Students will learn key frame full and limited animation. This course enables a student to create his or her Animated Movies, Web Graphics etc.			
Branch: Mass Communication Semester: 1			
Semester: 1 Course Code AVG123			
2Course Title2D Animation Techniques*3Credits34Contact Hours (L-T-P)1-2-05Course TypeCore Elective6Course ObjectiveUnderstand the basics of creating 2D digital animation. Creating Key frame and Twining animation. Understand the workflow to create layered 2D digital animation Creating Background design and animation.8Course DescriptionStudents will learn the different techniques and rules of 2D Digital Animation. Students will learn key frame full and limited animation. This course enables a student to create his or her Animated Movies, Web Graphics etc.			
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Understand the workflow to create layered 2D digital animation Creating Background design and animation. Students will learn the different techniques and rules of 2D Digital Animation. Students will learn key frame full and limited animation. This course enables a student to create his or her Animated Movies, Web Graphics etc.			
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8 Course Description Students will learn the different techniques and rules of 2D Digital Animation. Students will learn key frame full and limited animation. This course enables a student to create his or her Animated Movies, Web Graphics etc.			
Students will learn key frame full and limited animation. This course enables a student to create his or her Animated Movies, Web Graphics etc.			
student to create his or her Animated Movies, Web Graphics etc.			
O Outline Callebra			
9 Outline Syllabus CO Map			
Unit 1 Tools and Interface			
1 Workflow Introduction and Settings CO1			
2 Drawing and Shape Manipulation Animation CO1			
3 Drawing and Shape Manipulation Animation CO1			
Unit 2 Tween Animation			
1 Motion and Shape Tween CO2			
2 Path animation using Guide Layer CO2			
3 Masking and Effects using Gradients CO2			
Unit 3 Staging and Timing			
1 Static Background Scenes CO3			
2 Animated Background Scenes CO3			
3 Animated Background Scenes CO4			
Unit 4 Exporting Movie			
1 Rendering			
2 Compressions Settings CO5			
Unit 5 Applications			
1 Key Frame Animation - Principles of Animation CO6			
2 Key frame Animation – Simple Character Animation CO6			
3 Creating Scenes for Animation			
Evaluations CA 25% CE(Viva) 25% ETE 50%			
Text Book/s Adobe Flash Professional CS6 Classroom in a Book 1st Edition from Adobe Creative			
Team			
Other References How to Cheat in Adobe Flash CS5: The Art of Design and Animation Publications			
from Chris Georgenes			

School: SSMFE		Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2024-25
,VFX and Gaming Design)		
Bra	nch: Mass Communication	Semester: 1
1	Course Code	OPE
2	Course Title	Audio and Visual Production Process
3	Credits	3
4	Contact Hours (L-T-P)	0-2-2
5	Course Type	Elective





6	Course Objective	The objective of this course is to:			
U	Course Objective	To explore basic principles relations to the (re) production of sound and image To			
		understand the basic methods of audio recording and (re)generation			
			erstand basic methods of image (re)generation and photographi	ic capture To	
			and interactivity between sound, image and context	ic capture 10	
7	Course Outcomes		After completing the course, the student will be able to:		
1	Course Outcomes	CO1	Define the basic principles related to production and editing of	of different	
			kinds of Sounds	different	
		CO2	Summarize microphones and different audio accessories		
		CO3	Explain the fundamentals of digital image production using digital	ifferent	
			equipment	interent	
		CO4	Apply the knowledge of sound and image to create basic audi	o-visuals	
		CO5	Examine basic methods of audio recording and re-generation		
		CO6	Demonstrate projects using sound-recording technology		
8	Course Description		burse is designed to offer the students, a primary level understar	nding of sound	
	and image production and how both can be juxtaposed for the purpose of story-				
			using audio visuals.		
9	Outline Syllabus	CO Mapping			
	Unit 1	Princi	ples of Sound		
1 What is photography? The role & importance of photography. CO1				CO1	
	2 Brief History of photography				
				CO1, CO2	
			of Cameras		
	Unit 2		ples of Photographic composition		
	1		ots of composition	CO1, CO2	
	2		Capture, Types of Graphics (Vector and Raster), Various	CO1,	
			f Digital Capture and Image, Basic Software for Production	CO3,CO4	
			tor & Raster Graphics	G02 G04	
	3		al Applications of Image Editing, Mobile Applications for	CO3, CO4	
	image editing, Online Tools for Image Processing and Editing Unit 3 Basic Lighting Concept				
	Unit 3			CO2	
	2	_	s of light: Natural & Artificial Correct exposure	CO3	
	2		and physical properties of light on & angle of light : Front, side, top & back	CO3	
	3		ag contrast and its control by fill in lights	CO3	
	3		vo & three point lighting: Key, fill and back light	CO3	
	Unit 4 Sound Recording and Mixing				
	8 8			CO3, CO4	
	Dimensions, Microphones, Audio Accessories for Sound Production			203, 201	
	•			CO3, CO4	
				CO3	
	Unit 5	Audio Visual Production			
	1	Basics of Audio-Visual Mixing CO5			
	2	AV Creation using different Software CO5, CO			
	3	Final AV production CO6			
	Mode of examination				
	Evaluations	CA 25°			
	Text Book/s				
	Other References	_	Handbook of Acoustics by F. Alton Everest & Ken Pohlmann		
L			und Book: The Science of the Sonic Wonders of the World by	Trevor Cox	



Sch	nool: SSMFE	Batch 2024-28			
Program: B.Sc. (Animation		Current Academic Year: 2024-25			
,VFX and Gaming Design)					
Bra	anch: Mass Communication	Semester: 1			
1 Course Code AVG124					
2	Course Title UI & UX Design Tools				
3	Credits	1			
4	Contact Hours (L-T-P)	0-0-2			
5					
6	Course Objective	To understand principles behind Human Computer interaction (HCI)			
		To understand User Interface requirements			
		To recognize the importance of User Experience Design (UXD or UED)			
		To understand various methods of User Centered Design			
		To demonstrate effective UI / UX designs with case studies.			
8	Course Description	The course is about the understanding the principle of HCI, usability	standards, UX		
		design and UCD			
9	Outline Syllabus		CO Mapping		
	Unit 1	Introduction to HCI			
	1	Introduction of Unit.	CO1		
	2	Human-Computer Interaction Foundations.	CO1		
3		Roots of HCI.	CO1		
4		Meteoric rise of HCI.	CO1		
5		The multidisciplinary field of HCI.	CO1		
6		Models & Theories.	CO2		
7		Usability Evaluation.	CO2		
8		Programming interactive systems.	CO2		
9		Conclusion of the Unit.	CO2		
Unit 2		User Experience Design (UXD or UED)			
	1	Overview of UX.	CO3		
	2	Elements of UX.	CO3		
	3	UX Design Process – Research – Design – Prototyping – Testing –	CO3		
		Measurements.			
	4	UX Analysis, Design Thinking – Thinking out of box – Empathy –	CO3		
		Design Thinking Process.			
	5	Importance of Information Architecture.	CO3		
6		Wireframing.	CO3		
7		User research.	CO3		
8		Planning.	CO3		
Unit 3		User Centered Design			
2		Introduction.	CO4		
3		Principles.	CO4		
	4	Research.	CO4		
	5	Elements of UCD.	CO4		
	6	Usability and Accessibility.	CO4		





7 User Centered Design Process – Analysis – Design – CO4				
Implementation – Deployment. 8 Benefits of user centered process. CO4				
Unit 4 User Interface Design (UI)				
1	1 Overview of UI – Importance of UI – Characteristics. CO5			
2	Design Process.	CO5		
3	Three cognitive levels of emotional design.	CO5		
4	Attractiveness Vs Usability.	CO5		
5	Visual design Concepts.	CO5		
6	Graphical User interface.	CO5		
7	Design Tools.	CO5		
8	Navigation and structure.	CO5		
9	Composition and Layout Design.	CO5		
10	Design Icons.	CO5		
11				
12	Iconography. CO5 Graphic symbols – typography – color theory. CO5			
13	Graphic symbols – typography – color theory.			
13	Design Patterns and Style guides, Interaction Styles, Naming & Abbreviations.	CO5		
Unit 5	Case Studies			
1	Introduction of Unit.	CO6		
2	Effective UI Design examples.	CO6		
3	ů 1			
4	UX Design examples. CO6 Common Errors. CO6			
5	Common Errors. CO6 Complete case study of any existing application development. CO6			
6	Conclusion. CO6			
Mode of examination		C00		
	Jury CA 25% CE(Viva) 25% ETE 50%			
Weightage Distribution Text Book/s*	CA 25% CE(Viva) 25% ETE 50% Human-computer Interaction- by Alan Dix and Janet Finlay			
	(Author) – Pearson Education (2004) - ISBN-10: 9788131717035.			
	The Elements of User Experience: User-Centered Design for the Web and Beyond -			
	Voices That Matter Paperback – by Jesse James Garrett (Author) - New Riders; 2			
	edition (16 December 2010) - ISBN-10: 0321683684,ISBN-13: 978-0321683687.			
	UX Design for Mobile - Pablo Perea (Author), Pau Giner (Author)- Packt Publishing			
	- ebooks Account (July 28, 2017)- ISBN- 10: 1787283429, ISBN-13: 978-			
	1787283428.User-Centered Design: A Developer's Guide to Building User- Friendly			
Applications - by Travis Lowdermilk (Author) - O'Reilly Media; 1 edition (29 March				
2013) - ASIN: B00C3NX1BW UI/UX Design Basic and Fundamentals - by Nathan				
Clark				
Other References Lean UX: Designing Great Products with Agile Teams -				
	by Jeff Gothelf (Author), Josh Seiden (Author); Shroff/O'Reilly;			
	Second edition (1 November 2016)- ISBN-10: 9352134567,ISBN-			
	13: 978-9352134564.			
	Fundamentals of User-Centered Design: A Practical			
	Approach Paperback – 20 Dec 2016 - by Brian Still (Author), CRC			
	Press; 1 edition (20 December 2016) - ISBN-10: 1498764363,ISBN-	۸ "		
	13: 978-1498764360. The Essential Guide to user Interface Design: A Introduction to GUI Design Principles and Techniques by Wilbert	7 11		
	Introduction to GUI Design Principles and Techniques, - by Wilbert O.Galitz (Author) - Wiley; Second edition (2002) - ISBN-10:			
	8126502800,ISBN-13: 978-8126502806.			
School: SSMFE	Batch 2024-28			
	Current Academic Year: 2024-25			
Program: B.Sc. (Animation	Current Academic Tear; 2024-25			



,VI	X and Gaming Design)					
Bra	nch: Mass Communication	Semester: 1				
1	Course Code					
2	Course Title	Foundation Art Techniques				
3	Credits	1				
4	Contact Hours (L-T-P)	0-0-2				
5	Course Type	Core Elective				
6	Course Objective	It enables the students to learn the medium of Drawing and its	importance in			
		visualization.				
		Allows students to learn, observe, analyze and visualize.				
		Guides the student to strengthen the drawing skills to support later part of Animation				
		design.				
8	Course Description	Students will learn basic fundamentals of drawing & materials to be u				
		visualization. They will understand the significance of Perspective Dr	awing and			
		Sketching for Animation, VFX & Gaming				
	-	Pre-Production.	1			
9	Outline Syllabus		CO Mapping			
	Unit 1	Introduction to Drawing Materials				
	1	Introduction Materials	CO1			
	2	Papers-Different pencils	CO1			
	3	Color pencils-Crayons and poster colors	CO1			
	4	Introduction to drawing the objects, figures from the surroundings	CO2			
	To learn, observe, analyzing, and drawing the mechanical objects, CO2					
	utensils, and objects from everyday life. Unit 2 Environment Drawing					
	Unit 2	Environment Drawing				
	1	Introduction Perspective Drawing	CO3			
	2	To learn the importance of Perspective	CO3			
	3	Rules of perspectives – To learn one point – two-point perspectives-	CO3			
Learn to draw from different eye levels and different angles Unit 2						
	Unit 3	Sketching	GO 4			
	1	Introduction Sketching	CO4			
	2	Sketching from Reference/Live with Shape, Line of Action &	CO4			
		Balance	GO 4			
	3	Sketch a Sequential Poses	CO4			
	Unit 4	Lighting and Shading	005			
	1	Introduction of Unit	CO5			
	2	To introduce to the concept of light in visualization	CO5			
To study objects in Lighting and learn to draw them with proper						
	shading Unit 5 Costure Proving					
Unit 5 Gesture Drawing 1 Introduction to Gesture Drawing CO			CO6			
	2	Capturing Gesture Poses of Group Poses	CO6			
	2 3					
	3 Sequential Gesture poses of any action with memory/Observation CO6 Mode of Examination Jury					
		, , , , , , , , , , , , , , , , , , ,				
	Evaluations Toyt Pools/a	CA 25% CE(Viva) 25% ETE 50%				
	Text Book/s	Perspective Drawing Handbook, JosephD'Amelio For with the Provide Handbook				
-	O41 D 6	• Fun with the Pencil,Loomis				
	Other References	Dynamic Figure Drawing, BurneHogarth Contact BurneHogarth				
		Complete Book of Drawing Technique, Peter Stanyer				



Sch	nool: SSMFE	atch 2024-28			
	ogram: B.Sc. (Animation	Current Academic Year: 2024-25			
	FX and Gaming Design)				
	anch: Mass Communication	emester: 1			
1	Course Code	AVG126			
2	Course Title	ame Programming Fundamentals			
3	Credits	1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
4	Contact Hours (L-T-P)	-0-2			
5	Course Type	ore Elective			
6	Course Objective	o understand the basics of C#.			
			g in C#. To explain importance of arrays &		
		asses.			
		o understand development of windows	s & graphics. To understand implementation		
		# for game compiling.			
7	Course Outcomes	fter completing the course, the stude			
		O1 Describe the basics of C# progr	ramming		
		O2 Compare various methods of de	ecision making in C#		
		Use the fundamental concepts of	of programming in gaming		
		Illustrate the concepts of arrays	& classes		
		CO5 Correlate the concept of window	ws & graphics development in C#.		
		Write the game controls scripting	<u>U</u>		
8	Course Description	<u> </u>			
		programming, to design and develop programs with ease in varied workplace			
		environment. The course begins with basic programming structure with OOPs			
		oncepts and ends with developing gam			
9	Outline Syllabus		CO Mapping		
	Unit 1	ntroduction C#			
	1	troductions, Features, OOPs concept.	CO1		
	2	rogram structure, comments, data type perators.	s, Variables and constants, CO1		
3 4 Unit 2 1 2		xception Handling, Try-Catch block, 7	Fry-catch-finally block. CO1		
		rrors and Debugging, Unit Testing.	CO1		
		ecision Making	001		
		ontrol statements, if, if-else, switch-ca	se. CO2, CO3		
		ooping statements, while, do-while, fo ontinue.			
3		ncapsulation and Functions.	CO2,CO3		
Unit 3		rrays & Classes	602,603		
1 2		atroduction, Array definition, Array de	claration. CO4		
		or each loop, multi-dimensional arrays			
3		lass declaration, Object creation, Nam			
3		roperties, Constructors and Destructors			
4 Unit 4		tructure, Enumerators.	CO4		
		nheritance, polymorphism & File I/C			
		hheritance, Types of inheritance.	CO5		
	2	olymorphism, Strings.	CO5		
	3	xception Handling, File I/O, File Read			
	Unit 5	elegates & Interfaces	<i>5</i>		
	1	elegates, Multicasting Delegates, Ever	. II.		
	1	elegales, Mullicastilig Delegales, Evel	its. Using events in CO6		
	1	elegates, Municasting Delegates, Ever elegates.	nts, Using events in CO6		



2	Dictionary, Interfaces.	Dictionary, Interfaces.		
3	List, Threads, Object Pooling	List, Threads, Object Pooling, Singleton Class.		CO6
Mode of Examination	Jury	<u> </u>		
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	 Andy Harris, 'Microsoft C# Programming for the Absolute Beginner', PRENTICE-HALL OF INDIA PVT LTD, 2002 Programming in C# by E Balagurusamy (Author) - McGraw Hill Educa 4th edition (1 July 2017) - ISBN-10: 9351343189, ISBN-13: 978-9351343189. Beginning C# Game Programming (Game Development) - by Ron Pent (Author) - Premier Press; Pap/Cdr edition (22 October 2004) - ISBN-10 1592005179, ISBN-13: 978-1592005178. C# Programming in easy steps - by Mike McGrath (Author) - In Easy S Limited (11 December 2016) - ASIN: B01MXXGZAJ. 		Hill Education; 978- Ron Penton - ISBN-10:	
Other References	Creation by James A Professional Release Beginning Visual C# (Author), Jacob Vibe - ISBN-10: 81265590 C#: 2 BOOKS IN 1 - C# Programming Ste	 Limited (11 December 2016) - ASIN: B01MXXGZAJ. Learning 2D Game Development with Unity®: A Hands-On Guide to G Creation by James A. Henley, Matthew Johnson Publisher: Addison-We Professional Release Date: December2014 Beginning Visual C# 2015 Programming (WROX) - by Benjamin Perkin (Author), Jacob Vibe Hammer (Author), Jon D. Reid (Author) - Wiley (-ISBN-10: 8126559691, ISBN-13: 978-8126559695. C#: 2 BOOKS IN 1 - The Ultimate Beginner's & Intermediate Guide to C# Programming Step By Step - by Ryan Turner (Author), N.B.L Publis (7 December 2019) -ISBN-10: 1647710200,ISBN-13: 978-1647710200. 		amin Perkins) - Wiley (2016) e Guide to Learn B.L Publishing



from Earth (Watching a Full length Feature Film) 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO4 CO3 CO3 CO3 CO4 CO3 CO3 CO4 CO3 CO3	Sch	nool: SSMFE	Batch 2024-28	
Branch: Mass Communication Course Code ARP101	Program: B.Sc. (Animation		Current Academic Year: 2024-25	
Course Code ARP101	,VF	X and Gaming Design)		
Course Title Communicative English-I	Bra	anch: Mass Communication	Semester: 1	
3 Credits 2 10-2 5 Course Type Co-Requisite	1 Course Code ARP101			
Contact Hours (L-T-P)	2	Course Title	Communicative English-I	
Course Type	3	Credits	2	
To minimize the linguistic barriers that emerge in varied sociolect-linguistic environments through the use of English. Help students to understand different accents and standardize their existing English. Guide the students to hone the base communication skills - listening, speaking, reading and writing while also uplifting their perception of themselves, giving them self-confidence and building positive attitude. Recourse Description	4	Contact Hours (L-T-P)	1-0-2	
environments through the use of English. Help students to understand different accents and standardize their existing English. Guide the students to hone the bas communication skills - listening, speading and writing while also uplifit their perception of themselves, giving them self-confidence and building positive attitude 8 Course Description The course is designed to equip students, who are at a very basic level of languag comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. 9 Outline Syllabus Unit 1 Sentence Structure 1 Subject Verb Agreement COI 2 Parts of speech COI 3 Writing well-formed sentences COI 4 Writing well-formed sentences COI 4 Homonyms' homophones, Synonyms/Antonyms COI 5 Unit 2 Vocabulary Building & Punctuation 1 Homonyms' homophones, Synonyms/Antonyms COI 3 Conjunctions/Compound Sentences COI, COI, COI, COI, COI, COI, COI, COI,	5	Course Type	Co-Requisite	
accents and standardize their existing English. Guide the students to hone the bas communication skills - listening, speaking, reading and writing while also uplifting their perception of themselves, giving them self-confidence and building positive attitude 8 Course Description The course is designed to equip students, who are at a very basic level of language comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. 9 Outline Syllabus Unit 1 Sentence Structure 1 Subject Verb Agreement COI 2 Parts of speech 3 Writing well-formed sentences COI Unit 2 Vocabulary Building & Punctuation 1 Homonyms/ homophones, Synonyms/Antonyms COI 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) COI 3 Conjunctions/Compound Sentences COI, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film CO3, CI - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3, CI - Paragraph Writing inculcating the positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	6	Course Objective		
communication skills - listening, speaking, reading and writing while also uplifting their perception of themselves, giving them self-confidence and building positive attitude The course is designed to equip students, who are at a very basic level of language comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal express as a first step towards greater memorability. Poutline Syllabus Unit 1 Sentence Structure 1 Subject Verb Agreement COI 2 Parts of speech COI 3 Writing well-formed sentences COI Unit 2 Vocabulary Building & Punctuation 1 Homonyms/ homophones, Synonyms/Antonyms COI 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) COI 3 Conjunctions/Compound Sentences COI, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself Story Completion Exercise – Building positive attitude - The Man CO2, Constant of the profixed profixed in the profixed profixed in the profixed profixed in Speaking Skills 1 Self-introduction/Greeting/Meeting people – Self branding CO3, Constant of the profixed profix				
their perception of themselves, giving them self-confidence and building positive attitude The course is designed to equip students, who are at a very basic level of languag comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. Poutline Syllabus CO Map Unit 1 Sentence Structure 1 Subject Verb Agreement COI 2 Parts of speech COI 3 Writing well-formed sentences COI Unit 2 Vocabulary Building & Punctuation 1 Homonyms/ homophones, Synonyms/Antonyms COI 3 Conjunctions/Compound Sentences COI, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) A Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities				
Solution Course				
The course is designed to equip students, who are at a very basic level of language comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. Outline Syllabus				ling positive
comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. Outline Syllabus				
environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expres as a first step towards greater memorability. Voil	8	Course Description		
patterns, leading up to apprehension of oneself through written and verbal express as a first step towards greater memorability. Outline Syllabus				
Sentence Structure				
Sentence Structure				erbal expression
Unit 1 Sentence Structure 1 Subject Verb Agreement CO1 2 Parts of speech CO1 3 Writing well-formed sentences CO1 Unit 2 Vocabulary Building & Punctuation Homonyms/ homophones, Synonyms/Antonyms CO1 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) CO1 3 Conjunctions/Compound Sentences CO1, C Unit 3 Writing Skills CO3 Picture Description – Student Group Activity CO3 Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself CO3, CO4 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 CO5	Δ.	Onting Callabas	as a first step towards greater memorability.	CO Mannina
1 Subject Verb Agreement COI 2 Parts of speech COI 3 Writing well-formed sentences COI Unit 2 Vocabulary Building & Punctuation 1 Homonyms/ homophones, Synonyms/Antonyms COI 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) COI 3 Conjunctions/Compound Sentences COI, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film CO3, CI - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	9	·	Contonos Stanistano	CO Mapping
2 Parts of speech CO1 3 Writing well-formed sentences CO1 Unit 2 Vocabulary Building & Punctuation 1 Homonyms/ homophones, Synonyms/Antonyms CO1 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) CO1 3 Conjunctions/Compound Sentences CO1, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film CO3, CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film CO3, CO3 3 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, CO3 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, CO3 Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5		1 Thirt I		CO1
3 Writing well-formed sentences COI		1		
Unit 2 Vocabulary Building & Punctuation			1	
1 Homonyms/ homophones, Synonyms/Antonyms CO1 2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) CO1 3 Conjunctions/Compound Sentences CO1, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, CO3 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, CO3, CO3, CO3, CO3, CO4 Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5			ŭ	COI
2 Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words) 3 Conjunctions/Compound Sentences CO1, C Unit 3 Writing Skills 1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO4, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills Exploring Career Opportunities CO3		1		CO1
Conjunctions/Compound Sentences CO1, C		2		
Unit 3 Unit 3 Picture Description – Student Group Activity Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) Quit 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill Self-introduction/Greeting/Meeting people – Self branding CO4, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills Exploring Career Opportunities			1 0	
1 Picture Description – Student Group Activity CO3 2 Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise –Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, CO3 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, CO3 Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities				CO1, CO2
2 Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise –Building positive attitude - The Man from Earth (Watching a Full length Feature Film) 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 5 Self-introduction/Greeting/Meeting people – Self branding CO2, CO Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, CO Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO3		1 1		CO3
- Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself 3 Story Completion Exercise – Building positive attitude - The Man from Earth (Watching a Full length Feature Film) 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities	2			
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Story Completion Exercise –Building positive attitude - The Man from Earth (Watching a Full length Feature Film) CO4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill Self-introduction/Greeting/Meeting people – Self branding CO2, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills Exploring Career Opportunities CO3				
from Earth (Watching a Full length Feature Film) 4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills Exploring Career Opportunities CO3	3			CO2, CO3,
4 Digital Literacy Effective Use of Social Media CO3 Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5		C	from Earth (Watching a Full length Feature Film)	
Unit 4 Speaking Skill 1 Self-introduction/Greeting/Meeting people – Self branding CO2, C 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) CO3, C 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	4			CO3
1 Self-introduction/Greeting/Meeting people — Self branding CO2, C 2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	Unit 4			
2 Describing people and situations - To Sir With Love (Watching a Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5		1	1 5	CO2, CO3
Full length Feature Film) 3 Dialogues/conversations (Situation based Role Plays) CO2, C Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	2			CO3, CO4
Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5				
Unit 5 Professional Skills Career Skills 1 Exploring Career Opportunities CO5	3		Dialogues/conversations (Situation based Role Plays)	CO2, CO4
A 5 AA	Unit 5			
	1			CO5
\mathbf{c}	2		Brainstorming Techniques & Models	CO5
1			Social and Cultural Etiquettes	CO6
4 Internal Communication CO6		4	Internal Communication	CO6
Unit 6 Leadership and Management Skills		Unit 6	Leadership and Management Skills	
E		1	ů.	CO6
I I				CO6
Evaluations CA 25% CE(Viva) 25% ETE 50%		Evaluations	CA 25% CE(Viva) 25% ETE 50%	



Text Book/s	Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication
Other References	Comfort, Jeremy (et.al). Speaking Effectively. Cambridge
	University Press



Scl	School: SSMFE Batch 2024-28					
	ogram: B.Sc. (Animation	Current Academic Year: 2024-25				
,VFX and Gaming Design)						
	anch: Mass	Semester: 1				
Communication						
1	Course Code	VOF105				
2	Course Title	Script writing, Storyboard & Animatic				
3	Credits	3				
4	Contact Hours (L-T-P)	-2-2				
5	Course Type	Co-Requisite				
6	Course Objective	To Describe the dramatic structure of a story, explain formats in script, the act				
0	Corres Description	tructure, characterization and the scene creation.				
8	Course Description Outline Syllabus		CO Mapping			
Unit 1 The Principles of Dramatic Wring						
	1	Introduction to Screenwriting	CO1			
	2	The Basics: Character, Story, Structure	CO1			
	3	The Premise: Story Spine	CO1			
	Unit 2	Finding the Story	CO2			
	1	How to Format a Script	CO2			
	2	How to Write a Short Outline	CO2			
	Unit 3	Three Act Structure: Putting It All Together	CO3			
	1	"The Godfather": Beginnings, Middles, and Ends	CO3			
	2	Treatment: 5 Key Moments	CO3			
	Unit 4	Exploring Character	CO4			
	1	Dramatizing Character	CO4			
	2	Proper Script Formatting	CO4			
	1	Scene defined.	CO5			
2 Length of scene. Tenets of a good scenes—importance,			CO5			
desire/confrict, structure, compression						
	3	Sequences, Making a step outline	CO5			
	4	Visual Storytelling	CO6			
Evaluations CA 25% CE(Viva) 25% ETE 50%						
	Text Book/s	The Art and Science of Digital Compositing, SecondEdition				
	Other References					



School: SSMFE Batch 2024-28					Boundaries	
	gram: B.Sc. (Animation	Current Academic Y	ear: 2024-25			
	X and Gaming Design)					
-	nnch: Mass	Semester: 1				
	Communication					
1	Course Code	VAC103				
2	Course Title	Environmental Man	agement			
3	Credits	03				
4	Contact Hours (L-T-P)	3-0-0				
5	Course Type	Compulsory				
6	Course Objective	Enable students to learn the concepts, principles and importance of environmental				
			ents an insight of various caus			
			ide detailed knowledge of cau			
		types of environmental pollution and its effect on climate change, global warming and				
		ozone layer depletion. Provide knowledge of different methods of water conservation.				
		Provide and enrich the	e students about sustainable p	ractices and en	vironmental	
		management				
8	Course Description		e emphasises on various factor			
			e, Natural resource conservati		auses, effects and	
		control methods, Sus	tainable and Environmental e	nvironment		
9	Outline Syllabus	CO Mapping				
	Unit 1	Natural resource management		CO1		
	1	Air pollution Control and Water Pollution treatment Methods		CO2		
	2	Soil and Noise Pollution Management		CO2		
	3	Solid waste managem	ent		CO2	
	Unit 2	Environmental Pollu	tion Management			
	1	Air pollution Control	and Water Pollution treatmen	t Methods	CO2	
	2	Soil and Noise Polluti			CO2	
	3	Solid waste managem			CO2	
	Unit 3	Climate Change Mit				
	1		arming and greenhouse effect		CO3/CO6	
	2		n and its consequences		CO3/CO6	
3		Climate change, its effect on ecosystem and its mitigation.		CO3/CO6		
3		Kyoto protocol and IPCC concerns on changing climate.				
	Unit 4	Biodiversity Manage				
1 Hot spots, Endangered and endemic species of India				a	CO4/CO6	
	2	1 .	y: habitat loss, poaching of wi		CO4/CO6	
	2	wildlife conflicts, biol		ranie, man	001/000	
	3			nservation of	CO4/CO6	
Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.				001/000		
Unit 5 Sustainable practices and environmental management						
	1		ent and sustainable consumpt			
					CO5/CO6	
Environmental Issues and Management in India Environmental Management System (EMS)				CO5/CO6		
	3	Environmental ividiagement system (Eivis)				
	Evaluations	CA 15%	CE(Viva) 10%	ETE 75%	1	
	Text Book/s		nental Studies for Undergradu		v Erach Bharucha	
	ICAL DUUNS	Pub: Orient Blackswa			, Liucii Bilai uciiu,	
	Other References Environmental Science by G. Tyler Miller, JR. and Scott E. Spoolman; Broks/Cole.				man: Broks/Cole	
	Since Activities	Liivii oiiiiiciitai Sciciic	and	Scott L. Spool	min, Droks/Cole.	
<u> </u>		L				



Semester II

	nool: SSMFE	Batch 2024-28		
	ogram: B.Sc. (Animation	Current Academic Year: 2024-25		
	FX and Gaming Design)			
Branch: Mass Communication Semester: 2				
1	Course Code	AVG129		
2	Course Title	Hard Surface Modeling & Texturing*		
3	Credits	4		
4	Contact Hours (L-T-P)	2-2-0		
5	Course Type	Core		
6	Course Objective	To understand Assets development requirements.		
		To develop a design brief for a 3d model		
		To understand the tools and techniques to UV wrapping		
		To identify texturing techniques		
		To explain the creation and integration of rigging		
		To understand animation requirements.		
8	Course Description	This course offers introductory knowledge of 3D Asset creation proceeds	ess to make	
		students familiar with designing computer graphics		
9	Outline Syllabus		CO Mapping	
	Unit 1	Overview of 3D Assets		
	1	Topology & Mesh flow	CO1	
	2	Edge Flow & Bevel	CO1	
	3	Deformers	CO1	
	Unit 2	Modelling		
1		Interface and Concept of 3D Modeling	CO2	
	2	Understanding 3D space, Difference between 2D and 3D	CO2	
	3	Discover the user interface of Maya software and various elements	CO2	
	4	Game modeling & Optimization	CO2	
	Unit 3	UV Unwrapping Tools & Techniques		
	1	Concepts of UV un-wrapping	CO3	
	2	Creation of UV and texture for different objects	CO3	
	3	Understanding of UV Editor and techniques in it, including the	CO3	
		optimization and clean up		
	Unit 4	Digital Sculpting for Hard Surface		
	1	Principles of Sculpting	CO4	
	2	Interface & Navigation	CO4	
	3	Subdivision	CO4	
	Unit 5	Rendering		
	1	Preparation	CO6	
2		Render Setup	CO6	
3				
3 Material Setup CO6 Mode of Examination Jury				
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	l	
	Text Book/s	 Unity 4 Fundamentals: Get Started at Making Games with Unit Thorn Understanding 3D Animation Using Maya -John Edgar Park 		



	Beyond Boundaries RAAC			
	Animation: Digital Animation - Andrew Chong			
	• The Animator's Survival KitRevised Edition: A Manual of Methods,			
	Principles and Formulas for Classical, Computer, Games, Stop Motion and			
	Interne - Richard Williams			
Other References	Hybrid Animation Integrating 2D and 3D Assets, 2nd Edition By Tina			
	O'Hailey			
	Getting Started with Unity By Patrick Felicia Unity 5.x Cookbook by Matt			
	Smith, Chico Queiroz			



Sch	School: SSMFE Batch 2024-28					
Pro	Program: B.Sc. (Animation Current Academic Year: 2024-25					
,VF	,VFX and Gaming Design)					
Bra	nch: Mass Communication	Semester: 2				
1	Course Code	AVG130				
2	Course Title	3D Animation Fundamentals*				
3	Credits	3				
4	Contact Hours (L-T-P)	1-2-0				
5	Course Type	Core	Core			
6	Course Objective	To provide a detailed introduction to Autodesk Maya Software and helps the student				
		understand the concepts of object in 3D space, Object creation (model				
		texturing), its observation, timing, and motion in the real art of animat	ion and helps			
		in creating strong and believable animation.				
		The students will also understand the importance and application of B	asic Rigging			
		and Skinning.	41- 41			
		This course also emphasizes artistic and aesthetic creativity, intending				
		boundaries of the imagination and to familiarize students with acting, different kind of personality of characters and to explore character rigg				
		animation.	ging for			
		The Course ensures that the students will be familiarized with the May	va interface and			
		tools.	, a micrace and			
8	Course Description	This subject will provide a detailed introduction to Autodesk Maya So	oftware.			
	Source Description	Different techniques to create 3D model, about UV process and how d				
		texturing, the importance and application of Basic Rigging and helps t				
		understand the concepts of observation, timing, and motion in the real				
		animation and helps in creating strong and believable animation pieces	animation and helps in creating strong and believable animation pieces. This subject			
		will provide the basic understanding of 3D dynamics and particle effective	cts.			
_						
9	Outline Syllabus		CO Mapping			
9	Outline Syllabus Unit 1	Interface and Concept of 3D Modelling	CO Mapping			
9	Unit 1 1	Difference between 2D and 3D	CO Mapping CO1			
9	Unit 1 1 2	Difference between 2D and 3D Understanding 3D space	CO Mapping CO1 CO1			
9	Unit 1 1 2 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements	CO Mapping CO1			
9	Unit 1 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools	CO Mapping CO1 CO1 CO1			
9	Unit 1 1 2 3 Unit 2 1	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling	CO Mapping CO1 CO1 CO1 CO1			
9	Unit 1 1 2 3 Unit 2 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry	CO Mapping CO1 CO1 CO1 CO1 CO1			
9	Unit 1 1 2 3 Unit 2 1	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different	CO Mapping CO1 CO1 CO1 CO1			
	Unit 1 1 2 3 Unit 2 1 2 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry.	CO Mapping CO1 CO1 CO1 CO1 CO1			
	Unit 1 1 2 3 Unit 2 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping	CO Mapping CO1 CO1 CO1 CO1 CO1			
9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 2 1 2 3 Unit 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1			
9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO1 CO1			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 Unit 3 1 2 3 Unit 4 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 Unit 3 1 2 3 Unit 4 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 4 1 2 3 Unit 5 1	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation Applying principles of animation in 3D	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3 CO6			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 4 1 2 3 Unit 5 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation Applying principles of animation in 3D Using of Graph Editor and Dope sheet and techniques in it	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3 CO6 CO6			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 4 1 2 3 Unit 5 1	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation Applying principles of animation in 3D Using of Graph Editor and Dope sheet and techniques in it Expressions, Constraints and parenting in animation, object	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3 CO6			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 5 1 2 3	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation Applying principles of animation in 3D Using of Graph Editor and Dope sheet and techniques in it Expressions, Constraints and parenting in animation, object character interactions.	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3 CO6 CO6 CO5			
	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 4 1 2 3 Unit 5 1 2	Difference between 2D and 3D Understanding 3D space Discover the user interface of Maya software and variouselements Introduction to Modelling Tools Tools and technique in modelling Different types of geometry Nature of different meshes, advantage and disadvantage of different geometry. Concepts of UV UN-wrapping Concepts of UV Creation of UV Texture for different objects Working with UV tools and Techniques Understanding of UV Editor and techniques in it UV unwrapping techniques for Objects Creation of textures for Objects Animation Applying principles of animation in 3D Using of Graph Editor and Dope sheet and techniques in it Expressions, Constraints and parenting in animation, object	CO Mapping CO1 CO1 CO1 CO1 CO1 CO1 CO2 CO2 CO2 CO2 CO3 CO6 CO6			



Unit 6	Rigging		
1	Introduction to Deformers, Nonlinear Deformers	CO5	
2	Types of deformers, Editing, Painting, membership and its	CO5	
	significance		
3	Rigging Basics- Joints, Skin, IK and FK, Model and UV	CO5	
	requirement		
Unit 7	Skinning		
1	Introduction to Smooth Binding and its concepts	CO5	
2	Introduction to Rigid Binding and its concepts	CO5	
3	Editing skin weights, pruning, normalizing		
4	Creation and editing of joints for props and simple character	CO5	
Mode of Examination	Jury/Practical/Viva		
Evaluations	CA 25% CE(Viva) 25% ETE 509	ó	
Text Book/s	Story: Substance, Structure, Style and the Principles of Screenwriting RobertMcKee		
Other References	The Way of theStorytellerby RuthSawyer		
	Facial Expressions: A Visual Reference for Artists Mark Simon The Animation		
	Book: A Complete Guide to Animated FilmmakingFrom Flip-Books to Sound		
	Cartoons to 3-D		



Sch	ool: SSMFE	Batch 2024-28			
Pro	gram: B.Sc. (Animation	Current Academic Year: 2024-25			
,VF	,VFX and Gaming Design)				
Bra	Branch: Mass Communication Semester: 2				
1	Course Code	OPE			
2	Course Title	Material Animation Techniques			
3	Credits	3			
4	Contact Hours (L-T-P)	0-2-2			
5	Course Type	Elective			
6	Course Objective	To introduce various techniques and styles of Animation.			
		To provide the students hands on experience of simple ideas for Anin	nation using the		
		materials available in the immediate surroundings.			
8	Course Description	Students Will Learn The workflow for Story Development, Eleme	nts of script		
		writing, and 3Acts Structure & Development of the Characters.			
9	Outline Syllabus		CO Mapping		
	Unit 1	Introduction to Material Animation			
	1	Introduction to Material Animation	CO1		
	2	Different Styles in material animation	CO2		
	3	Popular material animation and other techniques	CO2		
	Unit 2	Different Techniques			
	1	Different Techniques	CO2		
	2	Exploring Different Material	CO2		
3 Rig & Installation.			CO2		
	Unit 3 Process and methods of Material Animation				
	1	Visualization of Material Animation.	CO3		
	2	Production process for Method.	CO3		
	3	Rough Test	CO3		
	Unit 4	Material Animation in Action			
	1	Story and Preproduction for Material Animation Film	CO4, CO5		
	2	Identification and Execution of Material	CO4, CO5		
	3	Animation Film-Post Production of Material Animation Film	CO4, CO5		
	Unit 5	Material Animation in Action			
	1	Story and Preproduction for Material Animation Film	CO6		
2 Ide		Identification and Execution of Material	CO6		
	3	Animation Film-Post Production of Material Animation Film CO6			
	Evaluations	CA 25% CE(Viva) 25% ETE 50%			
	Text Book/s	The Animator's Survival Kit: A Manual of Methods, Principles and Formulas for Classical, Computer, Games, Stop Motion and Internet Animators (FARRAR, STRAUS) by Richard Williams			
	Other References	 The Advanced Art of Stop-Motion Animation by Ken A. Priebe Stop Motion: Craft Skills for Model Animation, Second Edition (Focal Press Visual Effects and Animation) by Susannah Shaw 			

Sch	ool: SSMFE	Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2024-25
,VFX and Gaming Design)		
Bra	nch: Mass Communication	Semester: 2
1	Course Code	AVG131
2	Course Title	Drawing & Painting
3	Credits	1



4	Contact Hours (L-T-P)	0-0-2	ndaries
5	Course Type	Co-requisite	
6	Course Objective	Understand the basics of Drawing and Painting.	
		Familiarize with the tools and techniques of Drawing and Painting.	
		To introduce the creative skill through Drawing and Painting.	
		To improve the ability of visualization.	
		To Explore and create creative visual through Drawing and Painting.	
8	Course Description	The goal of this course is to explore fundamental techniques of Draw	ing and
	1	Painting, design, and illustration. Ideal for students eager to explore F	
		Comics, Storybooks. Students will learn to create environment from 1	
		references and gain an understanding of how to design landscape, illu	strations with
		colors. Students will learn how to compose painting through photogra	aphs.
9	Outline Syllabus		CO Mapping
	Unit 1	Introduction of Drawing and Painting	
	1	History of visual art and design	CO1
	2	Indian Art (Ajanta Caves to Contemporary art)	CO1
	3	Introduction of Indian Painting Masters	CO1
	4	Introduction of art Materials	CO1
	Unit 2	Understanding of pencils and charcoal	
	1	Introduction of different types of pencils	CO2
	2	Basic Charcoal drawings	CO2
	3	Basic Shapes and forms through pencil	CO2
	4	Introduction to drawing the objects, figures from the surroundings	CO2
	Unit 3	Art of Water-coloring	
	1	Introduction of water color and Paper	CO3
	2	Nature Drawing through water color	CO3
3 Landscape design using water color medium.		CO3	
4 Landscape design using real life references		Landscape design using real life references	CO3
	Unit 4	Introduction of different dry color mediums	
	1	Introduction of different dry color mediums	CO4
	2	Drawing and sketching using dry color medium	CO4
	3	Still Life painting using soft pastels	CO4
	4	Landscape through dry medium	CO4
	Unit 5	Final Projects	
	1	Introduction of using perspective drawing technique	CO5
	2	Different types of perspectives	CO5
	3	Poster Design using traditional method	CO6
	4	Book Cover Designing in traditional style	CO6
	Mode of Examination	Jury	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	
	Text Book/s	Charcoal by Richard Rochester, Publisher: Guild of Master Craftsma	n Publications
		Ltd (28 February 2020), ISBN-10: 1784945528	
		ISBN-13: 978-1784945527	N 1 D
		The Perspective Drawing Guide by Spencer Nugent, Publisher: Rock	y Nook; Reprint
		edition (6 January 2023), ISBN-10: 1681989034	
		ISBN-13: 978-1681989037	votene
		Watercolour Landscapes Step by Step by Milind Mulick, Publisher: J	
		Prakashan; Second edition (1 December 2008); Jyotsna Prakashan Gi	ngaon Mumbai
-	Other References	400004, ISBN-10: 8179252175 ISBN-13: 978-8179252178 20th Century Indian Art: Modern, Post-Independence, Contemporary	hy Dakhaa
	Other References	Balaran and Partha Mitter, Publisher: Thames and Hudson (24 May 2	
1		and Hudson Ltd, ISBN-10: 0500023328	1022), Thames
		and Hudson Eta, 15511-10. 0500025520	



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10DIN-10.	978-0500023327



		Beyond Bou	ndaries NAAC	
	ool: SSMFE	Batch 2024-28		
	gram: B.Sc. (Animation	Current Academic Year: 2024-25		
	X and Gaming Design)			
Bra	nch: Mass Communication			
1	Course Code	AVG132		
2	Course Title	Basics of Editing & Compositing		
3	Credits	1		
4	Contact Hours (L-T-P)	0-0-2		
5	Course Type	Co-requisite		
6	Course Objective	Familiarize the tools and techniques to create standard VFX shots.		
		Learn Problem solving techniques to rectify the errors during compos	siting.	
		Create content for broadcast, feature film and web animation.		
8	Course Description	Students will learn core concepts of 2D & 3D Digital Compositing, H	Iistorical	
		development, Creating Virtual Realm & Video Art		
9	Outline Syllabus		CO Mapping	
	Unit 1	History of Compositing		
	1	Terminologies	CO1	
	2	Physical Compositing, Multiple exposure,	CO2	
	3	Background Projection, Matting,	CO1&CO2	
	4	Digital Compositing,	CO1&	
	5	Node based and Layer Based Compositing.	CO2	
	6	Visual information and the camera,	CO1&CO2	
	Unit 2	Digital Image		
	1	Digital Image Generation, Pixels, Components and Channels,	CO3	
2		Bit Depth, Floating point and High Dynamic Range Imagery,	CO3	
3		HSV Color, YUV color, Digital Image file formats, Channels,	CO3	
J		Compression.		
4		Color Manipulation, Levels, Variations, Multiply, Add,	CO3	
5		Gamma Correction, Exposure Correction, Invert, Contrast, HSV	CO3	
		manipulations		
	Unit 3	Layers		
	1	Layer and Node based compositing.	CO3&CO4	
	2	Blending layers, Matte Image, Masking, Morphing - Chroma	CO3&CO4	
		Keying, Garbage Mattes, Edge Mattes, Luminance Keying,		
		Chrominance Keying, Difference Matting, Plug-ins and tools for		
		keying.		
	3	Tracking and Stabilization, tracking an element, 2D tracking,	CO4	
		Perspective tracking, Stabilizing footage.		
	4	Limitations of tracking and stabilizing tools.	CO3	
	5	Tools for advanced tracking and match moving.		
	6	Digital Imagery, Color Correction	CO3&CO4 CO3	
	Unit 4	Lighting and Composition		
1		Creating elements, Lighting in compositing tool, Matching live and	CO5	
		virtual cameras.		
2		3D Compositing, vanishing point conversion, creating 3D	CO5	
		compositing using 2D images,		
	3	Working with camera and lighting, effects, Working with Multi	CO5	
		pass Rendering, Alpha and Luma mattes, Z depth maps, Blending		
		passes and effects.		
	4	Animation, 2D and 3D transformation, Temporal and spatial	CO6	
		interpolation, speed graph, optimizing key frames, expressions for		
		animation, Time Remapping		



Unit 5	Theory and Practice of V	ideo Art	веуона воин	
1	History of Video Art, Contemporary video style, culture and		re and	CO6
	emotion reference -			
2	Video synthesizer, real-time video art, tools and techniques,			CO6
	applications -			
3	Music visualization and me	edia art, automation to musi	c,	CO6
	applications and tools			
4	Video art as art form, Intera	active film, display and proj	ection, case	CO6
	studies.			
5	Learning Lab: Create 2.5D Animation of an exterior and interior CO6			
	scene. Animate a slideshow using images imported into			
	compositing Track and composite chroma footage to a background,			
	color correct the scene for film. Animate and composite 3D			
	rendered passes with 2D footages.			
Mode of Examination	Jury			
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	Compositing Digital Image	es - T. Porter and T. Duff I F	Proceedings of S	SIGGRAPH
	'84, 18 (1984)			
	The Art and Science of Digital Compositing - Ron Brinkman			
Other References	Wright's Compositing Visu	al Effects: Essentials for the	e Aspiring Artis	st
	[Paperback]2007) - Paperb	ack (2007) - Wright		
	Compositing Visual Effects	s – Essentials for aspiring an	tists - Steve W	right



Sch	School: SSMFE Batch 2024-28				
Pro	gram: B.Sc. (Animation	Current Academic Year: 2024-25			
	X and Gaming Design)				
Bra	nnch: Mass Communication	Semester: 2			
1	Course Code	VOF106			
2	Course Title	3D Lighting & Rendering			
3	Credits	3			
4	Contact Hours (L-T-P)	0-2-2	0-2-2		
5	Course Type	Co-requisite			
6	Course Objective	It enables the students to learn the 3d Tool to Create a Virtual Enviro	It enables the students to learn the 3d Tool to Create a Virtual Environment with 3d		
		Lighting. Allows students to learn, observe, analyze, and visualize the			
		Guides the student to strengthen the Three Point Lighting & Cinema			
8	Course Description	Students will learn the use of different types of 3D Lighting, How to	create Real		
		Lighting Effects in Virtual World and create final rendered output.			
9	Outline Syllabus		CO Mapping		
	Unit 1	Introduction to Lighting and Shading	201 225		
ļ	1	The theory of light & Various Concepts of light	CO1, CO2		
ļ	2	Intro of Standard Lights & Exploring Standard Lights	CO1, CO2		
ļ	3	Shadow types & Studying shadow controls	CO1, CO2		
	4	Studying light effects with various shading techniques	CO1, CO2		
	Unit 2	Types of camera & Lights	G02 G04		
	1	Concept of 3-Point lighting & Fundamentals of Product Lighting	CO3, CO4		
	2	Seen setup using standard lights & Uses of Photo metric lights	CO3, CO4		
3		Sunlight and Daylight System, Fundamental of environmental	CO3, CO4		
4		Illumination & Lighting setup of an environment	CO3, CO4		
5		Basics of camera & Types of cameras	CO3, CO4		
6		Camera Setup for a seen & Camera correction techniques	CO3, CO4		
Unit 3		Rendering Basics & Types of Renderers Introduction of Rendering	CO5 CO6		
1 2			CO5, CO6 CO5, CO6		
	<u>2</u> 3	Explaining Various rendering techniques Rendering a Scene	CO5, CO6		
	<u> </u>	Render Effect	CO5, CO6		
	5	Exposure Control	CO5, CO6		
	6	Studying ART	CO5, CO6		
	7	Renderer	CO5, CO6		
	8	Intro of Arnold	CO5, CO6		
	9	Exploring Arnold Lights and Camera	CO5, CO6		
	10	Basic scene set up with Arnold	CO5, CO6		
	11	Exploring Rendering with Arnold	CO5, CO6		
	Unit 4	Materials, Texturing	,		
	1	Standard Maps and material browser	CO5, CO6		
	2	Arnold Materials	CO5, CO6		
	3	Projection-Mapping	CO5, CO6		
	4	UV Editor Interface	CO5, CO6		
	Unit 5	Lighting and rendering in Maya	7		
	1	Types of Standard Lights, Sunlight system & HDRI Lighting	CO5, CO6		
	2	Rendering Interface, Saving render files and their type	CO5, CO6		
	3	Rendering an Interior Scene	CO5, CO6		
	4	Rendering an Exterior Scene (Day Light/ Night/Evening view	CO5, CO6		
	5	Post Production in Adobe Photoshop	CO5, CO6		
	Mode of	Jury			



examination			
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%
Text Book/s	The Art and Technique of Matchmoving Solutions for the VFX Artist By Erica Hornung, 1st Edition (First Published 2010)		
Other References	Compositing Visual Effects: Essentials for the Aspiring Artist Paperback—11 August 2011by Steve Wright (Author)		



School: SSMFE		Batch 2024-28		
Program: B.Sc. (Animation		Current Academic Year: 2024-25		
,VFX and Gaming Design)				
Branch: Mass Communication S		Semester: 2		
1	Course Code	ARP102		
2	Course Title	Communicative English-II		
3	Credits	2		
4	Contact Hours (L-T-P)	1-0-2		
5	Course Type	Co-requisite		
6	Course Objective	To Develop LSRW skills through audio-visual language acquirement, creative		
		writing, advanced speech et al and MTI Reduction with the aid of cer	tain tools like	
		texts, movies, long and short essays.		
8	Course Description	The course takes the learnings from the previous semester to an advanced level of		
		language learning and self-comprehension through the introduction of audio-visual		
		aids as language enablers. It also leads learners to an advanced level of writing,		
		reading, listening and speaking abilities, while also reducing the usage of L1 to		
0	Onthing Chillabora	minimal in order to increase the employability chances.		
9	Outline Syllabus	Acquiring Vision Cools and Streets size through Audio visual	CO Mapping	
	Unit 1	Acquiring Vision, Goals and Strategies through Audio-visual Language Texts		
	1	Pursuit of Happiness / Goal Setting & Value Proposition in life	CO1	
	2	12 Angry Men / Ethics & Principles	CO1	
3		The King's Speech / Mission statement in life strategies & Action Plans in Life	CO1	
Unit 2		Creative Writing		
1		Story Reconstruction - Positive Thinking	CO2	
2		Theme based Story Writing - Positive attitude	CO2	
3		Learning Diary Learning Log – Self-introspection	CO2	
Unit 3		Writing Skills 1		
1		Precis	CO3	
	2	Paraphrasing	CO3	
	3	Essays (Simple essays)	CO3	
Unit 4		MTI Reduction/Neutral Accent through Classroom Sessions & Practice		
	1	Vowel, Consonant, sound correction, speech sounds, Monothongs, Dipthongs and Tripthongs	CO4	
2		Vowel Sound drills, Consonant Sound drills, Affricates and Fricative Sounds	CO4	
3		Speech Sounds Speech Music Tone Volume Diction Syntax	CO4	
Their 5		Intonation Syllable Stress	007	
Unit 5		Gauging MTI Reduction Effectiveness through Free Speech	CO5	
1		Jam sessions		
3		Extempore Situation based Role Play		
		Situation-based Role Play		
Unit 6		Leadership and Management Skills Innovative Leadership and Design Thinking	CO5	
2		Innovative Leadership and Design Thinking Ethics and Integrity	CO5	
Unit 7		Ethics and Integrity Universal Human Values	COS	
1		Love & Compassion, Non-Violence & Truth	CO6	
	2	Righteousness, Peace	CO6	
3		<u> </u>		
5		Service, Renunciation (Sacrifice)	CO6	



Unit 8	Introduction to Quantitative aptitude & Logical Reasoning		oning	
1	Analytical Reasoning & Puz	zzle Solving		CO6
2	Number Systems and its Ap	plication in Solving Problems	3	CO6
Evaluations	CA 25% CE(Viva) 25% ETE 50%			
Text Book/s	Wren, P.C.&Martin H. High English Grammar and Composition, S.Chand&			
	Company Ltd, New Delhi.			
	Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication			
	Comfort, Jeremy(et.al). Speaking Effectively. Cambridge University Press			
	The Luncheon by W.Somers	set Maugham - http://mistera.	co.nf/files/sn	n_luncheon.pdf



Sch	ool: SSMFE	Batch 2024-28		
Pro	gram: B.Sc. (Animation			
,VF	X and Gaming Design)			
Bra	nch: Mass Communication	Semester: 2		
1	Course Code	BCJ111		
2	Course Title	Indian Culture and Art Forms		
3	Credits	3		
4	Contact Hours (L-T-P)	0-2-2		
5	Course Type	Compulsory		
6	Course Objective	The objective of pursuing this course is:		
		To debate on various aspects of Indian history, art and culture		
		To critically engage on various socio-economic and political issues in India		
		To utilize knowledge gained to influence the social fabric of the co		
8	Course Description	The course is aimed to impart knowledge of Indian history, art, and c	•	
		students. The course will also help the student to critically examine the	ne socio-	
		economic and political aspects and issues of the country		
9	Outline Syllabus		CO Mapping	
Uni	t 1	Indian History: An Introduction		
1		Society in India through Ages- Ancient period- Varna and Jati,	CO1	
		Family and Marriage in India,		
2		Religion and Philosophy in India: Ancient Period, Pre- Vedic and	CO1	
		Vedic Religion, Buddhism and Jainism, Indian Philosophy –		
		Vedanta and Mimansa School of Philosophy		
3		Indian Freedom Movement (1857-1947) Landmarks	CO1	
Unit 2 Indian Culture: An Introduction			~~~	
1		Socio-cultural Configuration of Contemporary India:	CO2	
	Unity, Diversity, Multi-Culturalism		G02	
3		Art and Culture: Contemporary Issues and Debates CO2		
	4.2	Scientific Temper: Concept, Relevance and Practice	CO2	
Uni	t 3	Indian Polity	CO2	
1		Indian Constitution: Preamble; Fundamental Rights and Duties;	CO3	
		Directive Principles Presidential System and Parliamentary Demography	CO3	
3		Presidential System and Parliamentary Democracy General Elections and Electoral Reforms	CO3	
Uni	4 1	Indian Art & Architecture:	COS	
	l 4	Gandharva School and Mathura School of Art;	COA	
1		Hindu Temple Architecture, Buddhist Architecture, Medieval	CO4	
		Architecture and Colonial Architecture		
2		Indian Painting Tradition: Ancient, Medieval, Modern	CO4	
		Indian Painting and Regional Painting Tradition		
3		Performing Arts: Divisions of Indian Classical Music: Hindustani	CO4	
		and Carnatic, Dances of India: Various Dance forms: Classical and	CO4	
		Regional, Rise of Modern Theatre and Indian Cinema.		
		Contemporary Indian Art and Artists		
Uni	t 5	Social Movements & Activism		
1		Marginalization, Socio-Economic Equality and Reservation COS		
2		Judicial Activism & Women Safety, Gender Equality and Activism CO5		
3		Public Health, Hygiene & Sanitation: Swachh Bharathidasan	CO6	
Mo	de of	Theory		
	mination	-		
Eva	luations	CA 25% CE(Viva) 25% ETE 50%		
Tex	at Book/s	Basham, A. L. (2007). The Illustrated Cultural history of India. New	Delhi: Oxford	



	University Press. Ed. 1
Reference	Nehru, J. (1946). The Discovery of India. New York: The John Day Company.
	Thapar, R. (2003). The History of Early India: From the Origins to AD 1300.
	London: Penguin.
	Dhingra, I. C. (1986). Indian Economics and Development. New Delhi: Sultan Chand
	& Sons.
	Verma, N., & Bhalla, A. (200 0). India and Europe: Selected Essays. Shimla: Centre
	for the Study of Indian Civilization and Indian Institute of Advanced Study.



Sch	nool: SSMFE	Batch 2024-28	unaaries
	gram: B.Sc. (Animation	Current Academic Year: 2024-25	
,VF	X and Gaming Design)		
Bra	anch: Mass Communication	on Semester: 2	
1	Course Code	VAF006	
2	Course Title	Stress and Time Management	
3	Credits	Audit	
4	Contact Hours (L-T-P)	30 Hrs	
5	Course Type	Compulsory	
6	Course Objective	To understand the nature of stress	
		Comprehend the psychological and physiological effects of stress	
		To access the risk factors related to stress.	
		To understand intricacies of time management	
8	Course Description	The course is designed to inculcate the basic understanding of the re	
		between the stress management and time management skills with th	e academic
		achievement of the students.	
9	Outline Syllabus		CO Mapping
	Unit 1	Understanding the Nature of Stress	
	1	Meaning of Stress	CO1
	2	Reactions to Stress, Sources of Stress	CO1
	3	Individual and Cultural Differences	CO1
	Unit 2	Strategies of Stress Management	
	1	Stressful thinking	CO2
	2	Psychological and Spiritual Relaxation Methods	CO2
	3	Physical Methods of Stress Reduction	CO2
	Unit 3	Strategies of Stress Management Prevention	
	1	Self Care: Nutrition and Lifestyle	CO3
	2	Stress & Conflict in relationships, Resilience and Stress	CO3
	3	Apply stress management prevention technique	CO6
	Unit 4	Fundamental Aspects of Time Management	
	1	Planning & Goal Setting	CO4
	2	Focus on time and resources	CO4
	3	Pre-Analysis of performance	CO6
	Unit 5	Productive Time Management System	
	1	Busy vs Productive	CO5
	2	Indecision and Delay, Urgency vs Importance	CO5
	3 Apply time management technique CC		CO6
Tex	at Book/s	Stress and Time Management by Brian Lomas	
Ref	Reference Time and Stress Management for Rookies by Kay Frances		





Semester III

Sch	nool: SSMFE	Batch 2024-28	
Pro	Program: B.Sc. (Animation Current Academic Year: 2025-26		
,VI	X and Gaming Design)		
Bra	anch: Mass Communication	Semester: 3	
1	Course Code	AVG221	
2	Course Title	Character Modeling & Sculpting Techniques*	
3	Credits	4	
4	Contact Hours (L-T-P)	2-2-0	
5	Course Type	Core	
6	Course Objective	This Course is extension of 3D Modelling and allows to create like c	lay handling in
		traditional sculpting in digital format. This advanceapplication allow	s a student to
		create hyper realistic character, textures with minor details, how to de	evelop basic
		mesh within or outside of application and develop that into highly cred	eative,
		expressive and realistic character.	
8	Course Description	This subject will provide a detailed introduction to Digital Sculpting	
		techniques to create 3D model, about UV process and how does it he	lp in texturing
		photo realistic	
9	Outline Syllabus		CO Mapping
	Unit 1	Introduction	
	1	Setting a project	CO1
	2	Interface & Navigation.	CO1
	3	Tools & Techniques	CO1
	Unit 2	Digital Sculpting Basic	
	1	Gizmo	CO2
	2	Move, Scale & Rotation	CO2
	3	Symmetry	CO2
	Unit 3	Tools & Sub Tools	
	1	Importing	CO3
	2	Spitting & Merging	CO3
	3	Multimesh	CO3
	Unit 4	Sculpting Brushes	
	1	Settings & Size	CO4
	2	Combining Meshes	CO4
	3	Alpha	CO4
	Unit 5	DynaMesh	
	1	Starting the Sculpting	CO5
	2	Symmetry & Smoothness	CO5
	3	Sculptris	CO6
	Mode of examination	Jury	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	
	Text Book/s	 ZBrush Character Creation: Advanced Digital SculptingBook Spencer 	k by Scott
	Other References	3D Sculpting for Beginners: Amazing Guide To Sculpting B Redhed	ook by Scott



Sch	nool: SSMFE	Batch 2024-28	O A II W G F I E S	
	ogram: B.Sc. (Animation	Current Academic Year: 2025-26		
	X and Gaming Design)			
Bra	anch: Mass	Semester: 3		
Cor	mmunication			
1	Course Code	AVG222		
2	Course Title	VFX Compositing I*		
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core		
6	Course Objective	Familiarize the tools and techniques to create standard VFX shots.		
		Learn Problem solving techniques to rectify the errors during comp	ositing.	
		Create content for broadcast, feature film and web animation.	-	
8	Course Description	Students will learn core concepts of 2D & 3D Digital Compositing,	Historical	
	_	Development, Creating Virtual Realm & Video Art.		
9	Outline Syllabus		CO Mapping	
	Unit 1	History of Compositing		
	1	Terminologies	CO1	
	2	Physical Compositing, Multiple exposure,	CO2	
	3	Background Projection, Matting,	CO1&CO2	
	4	Digital Compositing,	CO1&	
	5	Node based and Layer Based Compositing.	CO2	
	6	Visual information and the camera,	CO1&CO2	
	Unit 2	Digital Image		
	1	Digital Image Generation, Pixels, Components and Channels,	CO3	
	2	Bit Depth, Floating point and High Dynamic Range Imagery,	CO3	
	3	HSV Color, YUV color, Digital Image file formats, Channels, Compression.	CO3	
4		Color Manipulation, Levels, Variations, Multiply, Add,	CO3	
5		Gamma Correction, Exposure Correction, Invert, Contrast, HSV	CO3	
II:4 2		manipulations		
	Unit 3	Layers	CO2 0 CO4	
	1	Layer and Node based compositing.	CO3&CO4	
	2	Blending layers, Matte Image, Masking, Morphing - Chroma	CO3&CO4	
	2	Keying, Garbage Mattes, Edge Mattes, Luminance Keying, Chrominance Keying, Difference Matting, Plug-ins and tools for keying.	C03&C04	
	3	Tracking and Stabilization, Tracking an element, 2D tracking, Perspective tracking, Stabilizing footage.	CO4	
	4	Limitations of tracking and stabilizing tools. Tools for advanced tracking and match moving. Digital Imagery, Color Correction	CO3	
	5	Lighting and Composition	CO3&CO4	
	6	Creating elements, lighting in compositing tool, Matching live and virtual cameras.	CO3	
Unit 4 Compositing using 2D images,				
1		Working with camera and lighting, effects, Working with Multipass Rendering, Alpha and Luma mattes, Z depth maps, Blending	CO5	
	2	passes and effects.	CO5	
		Animation, 2D and 3D transformation, Temporal and spatial interpolation, speed graph, optimizing key frames, expressions for	COS	



	animation, Time Remapping		
3	Theory and Practice of Video Art	CO5	
	History of Video Art, Contemporary video style, culture and		
	emotion reference		
4	Video synthesizer, real-time video art, tools and techniques,	CO5	
	applications		
Unit 5	Music visualization and media art, automation to music,		
	applications and tools		
1	Video art as art form, Interactive film, display and projection, cas	e CO6	
	studies.		
2	Learning Lab	CO6	
3	Create 2.5D Animation of an exterior and interior scene.	CO6	
	Animate a slideshow using images imported into compositing.		
4	Track and composite croma footage to a background, color correct	ct CO6	
	the scene for film.		
5	Animate and composite 3D rendered passes with 2D footages.	CO6	
Method of examination	Jury		
Evaluations	CA 25% CE(Viva) 25% ETE 50	%	
Text Book/s	Compositing Digital Images - T. Porter and T. Duff I Proceedings of SIGGRAPH '84, 18 (1984) I		
	The Art and Science of Digital Compositing - Ron Brinkman		
	Wright's Compositing Visual Effects: Essentials for the Aspiring Artist		
	[Paperback]2007) - Paperback (2007) - Wright		
Other References	Compositing Visual Effects – Essentials for aspiring artists - Steve Wright		

Sch	ool: SSMFE	Batch 2024-28	
Pro	gram: B.Sc. (Animation	Current Academic Year: 2025-26	
,VF	X and Gaming Design)		
Bra	nch: Mass Communication	Semester: 3	
1	Course Code	AVG223	
2	Course Title	3D Game Design & Development	
3	Credits	3	
4	Contact Hours (L-T-P)	1-2-0	
5	Course Type	Core Elective	
6	Course Objective	To understand the overview of 3D game platform	



	Course Description Outline Syllabus Unit 1	To identify the resources for a 3D game development To learn techniques essential for setting up a 3D game To understand mechanism and its interface To explain 3D game workflow and optimization techniques The course is about the understanding the principle of 3D Game Deve Plan the resources for a 3D game development	
	Outline Syllabus	mechanism and its interface To explain 3D game workflow and optimization techniques The course is about the understanding the principle of 3D Game Deve	
	Outline Syllabus	To explain 3D game workflow and optimization techniques The course is about the understanding the principle of 3D Game Deve	lopment and
	Outline Syllabus	The course is about the understanding the principle of 3D Game Deve	lopment and
	Outline Syllabus		lopment and
9 (•	Than the resources for a 3D game development	
	•		CO Mapping
	1	Overview of 3D Platform	CO Mapping
	1	Introduction to unity 3D, Loading or creating a New project or scene	
			CO1,CO2
	2	Layout, Toolbar, Menu, Simple Objects, selecting and focus, Transforming, Snaps	CO1,CO2
	3	Scene, Lights, Particle, 3D Objects, Materials, Environment, Player	
		Character, Interactions	CO1,CO2
		Concepts of unity 3d, Interface, Terrain Editor, Camera, GUI and	
		HUD	CO1,CO2
	Unit 2	Game Assets Overview	
	1	Pro builder - Game 3d models – Environment - Terrain - Character – Vehicles- Props- particles and other assets,	CO3
	2	Importing – model packages, Costumes, Fog, Setting up materials,	CO3
	2	Architecture, Skybox, shaders, Lighting and shadows	CO3
	3	Assets Management, Package Manager, Timeline Editor	CO3
	Unit 3	3D Game World	
	1	Navigation and functionality- Characters - Inspector setup - Prefabs	
		-controller - Graphics - Camera Setup,	CO4
	2	Culling Mask, Occultation Culling	CO4
	3	Cursor control – GUI cursor, Action Objects -Interaction –	
		Collision – collision detection – Trigger –Raycasting – camera follow	CO4
		Rigid Bodies, Instantiation, physics, Input controllers.	CO4
	Unit 4	Visualization for 3D game	
	1	Cinemachine, Post Processing,	CO5
	2	Managing State – State Machine – Object lookup,	CO5
	3	Exploring Transition – object visibility – player focus,	CO5
	4	Unity Animation view, Animator, Mecanim and characters,	CO5
	5	Setting up.	CO5
	Unit 5	Game Testing & Finalizing	
	1	Menu and Levels, UGUI, Message text- GUI skin- text,	CO6
	2	Inventory Logic – Layers – screen – icons –cursor, Managing the	
		Inventory – object- layout-overflow – limits, Dialogue tree,	CO6
	3	Special effects, Particle System, Audio System, Device simulators, 3D Sounds	CO6
	4	Debugging and Optimization, Building – Settings – Game (Web /	233
	•	PC & Android) – Quality Settings, Testing.	CO6
I	Mode of examination	Jury	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	
	Text Book/s	 Beginning 3D Game Development with Unity 4: All-in-One, I Game Development, Second Edition by- sue-Blackman Publis Learn Unity3D Programming with Unity Script: Unity's JavaS Beginners by Janine Suvak Unity Game Development Essentials by Will Goldstone Game with Unity by Michelle Menard 	sher: A press Script for



	3D Game Textures: Create Professional Game Art Using Photoshop / 3D Game Environments: Create Professional 3D Game Worlds by Luke Ahearn
Oth on Defenences	
Other References	 Unity Game Development in 24 Hours, Sams Teach Yourself by Ben
	Tristem, Mike Geig
	Getting Started with Unity By Patrick Felicia 3- Unity 3D UI Essentials by
	Simon Jackson



Sch	nool: SSMFE	Batch 2024-28		
Pro	gram: B.Sc. (Animation	on Current Academic Year: 2025-26		
	X and Gaming Design)			
	anch: Mass Communication	Semester: 3		
1	Course Code	AVG224		
2	Course Title	Character Animation*		
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core Elective		
6	Course Objective	The purpose of this subject is to provide simulated hands-on experies	nce of Character	
		Animation and Rigging pipeline. It will help in:		
		Understanding the workflows involved in actual productions.		
		Knowledge of planning and organizing projects.		
		Learning artistic techniques to create high quality Rigs and Animation		
8	Course Description	Students will learn the core concepts of creating High Functioning Ch	aracter Rigsand	
		using them for creating appealing Animations	1	
9	Outline Syllabus		CO Mapping	
	Unit 1	Project Preparation	as:	
	1	Introduction of Unit	CO1	
	2	Choosing Character Topic (Stylized / Realistic)	CO1	
	3	Collecting References	CO1	
	4	Planning	CO1	
	5	Preparing Scenes and Resources	CO1	
	Unit 2	Body Rigging	200	
	1	Introduction of Unit	CO2	
	2	Creating Joints	CO2	
	3	Attaching Controls	CO2	
	4	Adding Constraints	CO2	
	5	Painting Weights	CO2	
	6	Adding Deformers	CO2	
	Unit 3	Facial Rigging Introduction of Unit	CO2	
	1		CO3	
	<u>2</u> 3	Sculpting Poses	CO3	
		Generating Blend Shapes Attaching Controls	CO3	
	<u>4</u> 5	Organizing Heirarchy	CO3	
-	Unit 4	Body Animation	COS	
	1	Introduction of Unit	CO4	
-	2	Blocking Out Animation	CO4	
	3	Creating Key Poses from Reference	CO4	
	4	Adding in-betweens	CO4	
	5	Cleaning up Graph Editor	CO4	
	6	Refining Animation	CO4	
	Unit 5	Facial Animation	201	
	1	Introduction of Unit	CO5	
	2	Blocking Out Animation	CO5	
	3	Creating Key Poses from Reference	CO5	
	4	Adding in-betweens	CO5	
	5	Cleaning up Graph Editor	CO6	
	6	Refining Animation	CO6	
	Mode of examination	Jury		
		ı v	1	



Evaluations	CA 25%	CE(Viva) 25%	ETE 50%
Text Book/s	Learning Maya 5: Character Rigging and Animation by Alias Wave front		ion by Alias Wave front
Other References	The Advanced Art	Art of Stop-Motion Animation by Ken A. Priebe	
	 Understanding 3-D animation using Maya by John Edgar Park 		ın Edgar Park



DCI	nool: SSMFE	Batch 2024-28				
Program: B.Sc. (Animation		Current Academic Year: 2025-26				
	EX and Gaming Design)					
Bra	anch: Mass Communication	Semester: 3				
1						
2	Course Title	Radio Jockeying, Podcast and Programme Production (OPE)				
3	Credits	3				
4	Contact Hours (L-T-P)	0-2-2				
5	Course Type	Minor Elective				
6	Course Objective	The objective of this course is to:				
		Familiarize the students with different aspects of Radio Programming	& Radio			
		Production				
		Understand how to conceptualize and deliver radio programs.				
		To understand the importance of Voice, punctuation & vocabulary in l	Radio			
		Programming				
		Understand the difference between outdoor and studio-based Radio pr				
8	Course Description	This course is specially designed to deal with various elements of radio	•			
		process. Beginning with conceptualization of the radio programs, varied	•			
		the production process keeping in view the nature of audience and the	zone of			
		broadcast will also be dealt with.	GO 15			
9	Outline Syllabus		CO Mapping			
	Unit 1	Radio: An Introduction	G0.1			
	1	Introduction to radio, its development as a medium of mass	CO1			
		communication.	GO1			
	2	Functions, Characteristics & limitations of Radio. Different types of	CO1			
		Radio: Commercial Radio, Community Radio, Satellite Radio &				
	2	Internet Radio	CO1 CO2			
3		Introduction to Sound, Importance of Sound in Producing Radio	CO1, CO2,			
	Unit 2	Programs, Doppler Effect Padia Format & different stores	CO3			
	1	Radio Format & different stages Stages of Radio Production	CO2, CO3			
	1	-	CO2, CO3			
		 Pre-Production – (Idea, research, script) Production–Creative use of Sound; Listening, Recording, 				
		using archived sounds, (execution, requisite, challenges),				
		Podcast				
		Post Production				
	2	Different formats of radio programs	CO 2,CO3			
	3	Program format V/s Station format: Music and Non music formats,	CO1, CO2,			
	S	different formats- talk, discussion, interviews, magazine show,	CO1, CO2,			
		fillers documentary,	003			
		features etc.				
	Unit 3	Radio Jockeying				
	1	Voice Modulation Pitch, Tempo, Phonetics, the art of proper	CO4, CO3			
		articulation and pronunciation, voice projecting.	, , , , , ,			
	2	Use of microphones & Console handling	CO1, CO3,			
		, , , , , , , , , , , , , , , , , , ,	CO4, CO6			
3		OB recordings & Live shows.	CO1, CO3,			
			CO4, CO6			
	Unit 4	Radio: Writing & Editing				
	1	Writing for Radio- Styles & Structure	CO3, CO4			
	2	Art of taking Interview for Radio	CO3, CO4			
	3	Radio Editing: Tools & Techniques	CO3, CO4,			



				CO5, CO6
Unit 5	Radio Program	mes Production		
1	Producing Radio	Interviews, Talks, Magazine Sho	ow, Phonos	CO3, CO4,
				CO5, CO6
2	Producing Public	c Service Announcement, Promo	and Jingles	CO3, CO4,
				CO5, CO6
3	Final Project Sub	bmission and Presentation		CO3, CO4,
				CO5, CO6
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	Keith, Michael C	C & Krause, Joseph M. (1989) —	"The Radio Station"	•
Other References	Aspinall, R. (1971) Radio Production, Paris: UNESCO.			
	• Flemming, C. (2002) The Radio Handbook, London: Routledge. Keith, M. (1990)			
	Radio Production, Art & Science, London: Focal Press McLeish, R. (1988)			
	Techniques of Radio Production, London: Focal Press			
	 Chatterji 	i, P.C. (1993) — "Indian Broadca	sting".	



Sch	ool: SSMFE	Batch 2024-28	
Pro	gram: B.Sc. (Animation	Current Academic Year: 2025-26	
	X and Gaming Design)		
	nch: Mass Communication	Semester: 3	
1	Course Code	AVG225	
2	Course Title	Texture Painting Tools	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
5	Course Type	Core	
6	Course Objective	The purpose of this subject is to provide simulated hands-on experience	
		to create complete high quality 3D Assets for Films and Game Produc	
		subject will help in: Understanding the workflows involved in actual p	productions.
		Knowledge of planning and organizing projects.	
		Learning artistic techniques to create high quality assets.	
8	Course Description	Students will learn the core concepts of creating High Quality 3D Ass	
		and Game Productions. They will gain the knowledge of planning and	lorganizing
0	O-41' C-11-1	projects in a Simulated production environment.	COMension
9	Outline Syllabus Unit 1	Duningt Dunmountier	CO Mapping CO1
	Unit I	Project Preparation Introduction of Unit	
	2		CO1
	<u>2</u> 3	Choosing Topic (Environment / High Quality Asset) Collecting References	CO1
	<u> </u>	Planning	COI
	Unit 2	Modeling and Sculpting	COI
	1	Introduction of Unit	CO2, CO3
	2	Creating Base Model	CO2, CO3
	3	Modeling Hard Surfaces	CO2, CO3
	4	Optimizing Topology	CO2, CO3
	5	Organic Sculpting	CO4
	6	Preparing LODs	CO3, CO4
	Unit 3	Creating UV's and Base Materials	203, 201
	1	Assigning Materials	CO4, CO5
	2	UV Projection and Cutting	CO4, CO5
	3	Unwrapping	CO4, CO5
	4	UV Layouts	CO4, CO5
	5	Utilizing UDIM Workflow	CO4, CO5
	6	Optimizing UV Spaces	CO4, CO5
	7	Creating UV's and Base Materials	CO4, CO5
	8	Assigning Materials	CO4, CO5
	Unit 4	Texturing and Shading	
	1	Introduction of Unit	CO5
	2	Baking LOD Details to Material	CO5
3		Matching Material Properties	CO5
4		Painting organic details	CO5
5		Generating PBR Textures	CO5
6		Plugging-in Textures to Materials	CO5
	7	Texturing and Shading	CO5
	Unit 5	Rendering and Presentation	
	1	Introduction of Unit	CO6
	2	Setting up Camera	CO6
	3	Lighting Scene	CO6



4	Rendering			CO6
5	Post-Processing and Touch	up		CO6
6	Rendering and Presentation			CO6
Mode of examination	Jury			
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	Beginning PBR Texturing: Learn Physically Based Rendering with Allegorithmic's Substance Painter Perfect Paperback – 1 January 2022 by Kumar (Author)			
Other References	Creating Games wit Li Jingtian)	th Unity, Substance Painter, &	Maya (Engl	ish, Paperback,



Sch	ool: SSMFE	Batch 2024-28	naaries	
Pro	ogram: B.Sc. (Animation	Current Academic Year: 2025-26		
	X and Gaming Design)			
	nnch: Mass Communication	Semester: 3		
1	Course Code	AVG226		
2	Course Title	Anatomy Drawing		
3	Credits	1		
4	Contact Hours (L-T-P)	0-0-2		
5	Course Type	Core Compulsory		
6	Course Objective	Impart knowledge on Human body and its structural function. Apply	the knowledge	
		in creating characters in 3D and 2D Understanding Rigging in Anaton		
8	Course Description	This subject will provide an overview of Artistic Human Anatomy, D		
		human form during various activity. It helps in 3D modeling in more	realistic way	
_		and rigging as well.		
9	Outline Syllabus	T	CO Mapping	
	Unit 1	Anatomy Study	001	
	1	Size and proportion of human body	CO1	
	2	Bone structure	CO1	
	3	Stick poses	CO1	
	4	Action poses in stick drawing	CO1	
	Unit 2	Understanding of Human Muscles		
	1	Types of muscles	CO2	
	2	Muscles in human torso	CO2	
	3	Muscles in hand and leg	CO2	
	4	Basic sketches of human muscles	CO2	
	Unit 3	Hand and Leg study		
	1	Proportion of Hand and Leg	CO3	
	2	Hand movement study	CO3	
	3	Leg Movement study	CO3	
	4	Full moving pose study	CO3	
	Unit 4	Study of Human poses		
	1	Basic human pose study	CO4	
	2	Action pose study	CO4	
	3	Group Pose study	CO4	
	4	Foreshortening poses	CO4	
	Unit 5	Study of Human Head		
	1	Basic proportion of human head	CO5	
	2	Different angles of human head	CO5	
	3	Separate study of human facial parts	CO6	
	4	Study of human expression	CO6	
	Mode of examination	Jury		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	 Text Book/s Human anatomy for artist by Gyorgy Feher, Publisher: Ullmann Publishing (3 May 2012) ISBN-10: 3833162562, ISBN-13: 978-3833162565 Drawing the head, hands & figure drawing by- Andrew Loomis, Publisher: TITAN; Reprint edition (10 November 2020), ISBN-10: 1789095344 ISBN 			
	Other References • Constructive Anatomy by George B Bridgman, Publisher: Martino Fine Books; Illustrated edition (2 October 2018) ISBN-10: 1684222648 ISBN-13: 978-1684222643			



School: SSMFE		Batch 2	2024-28			
Program: B.Sc. (Animation		Currer	nt Academic Year: 2025-26			
	X and Gaming Design)					
Bra	Branch: Mass Communication Semester: 3					
1	Course Code	ARP207				
2	Course Title		Communicative English-III- Logical Skill Building and Soft Skills			
3	Credits		2			
4	Contact Hours (L-T-P)	1-0-2				
5	Course Type	Co-Rec	•			
6	Course Objective		ance holistic development of students and improve their empl	•		
			vide a 360 degree exposure to learning elements of Business En			
			m, behavioral traits, achieve softer communication levels and			
			grade students' across varied industry needs to enhance employers.			
			end of this semester, a student will have entered the threshol			
			of employability enhancement and skill building activity exercise			
7	Course Outcomes		ompleting the course, the student will be able to:			
'	Course outcomes	CO1	Ascertain a competency level through Building Essential Lang	guage and Life		
		001	Skills	Suage and Ene		
		CO2	Build positive emotional competence in self and learn GOAL	Setting and		
			SMART Goals techniques			
		CO3	Apply positive thinking, goal setting and success-focused attit	tudes, time		
			Management, which would help them in their academic as we			
			professional career			
		CO4	Acquire satisfactory competency in use of aptitude, logical an	d analytical		
			reasoning			
		CO5	Develop strategic thinking and diverse mathematical concepts	through		
		COC	building number puzzles	1 6		
		CO6	Demonstrate an ability to apply various quantitative aptitude t	ools for		
8	Course Description	This L	making business decisions	v amplayment		
O	Course Description	This Level 1 blended training approach equips the students for Industry employment readiness and combines elements of soft skills and numerical abilities to achieve this				
		purpose		to actific ve tills		
9	Outline Syllabus	purpose	•	CO Mapping		
	Unit 1	BELLS	S (Building Essential Language and Life Skills)	COMapping		
	1		Yourself: Core Competence. A very unique and interactive	CO1		
			ch through an engaging questionnaire to ascertain a student's			
		current skill level to design, architect and expose a student to the				
		right syllabus as also to identify the correct TNI/TNA levels of the				
		student				
	2		ques of Self Awareness Self Esteem & Effectiveness	CO1, CO2		
			g Positive Attitude Building Emotional Competence			
3		Positive Thinking & Attitude Building Goal Setting and SMART				
		Goals – Milestone Mapping Enhancing L S R W G and P		CO1,		
	TT 14 A		ing Speaking Reading Writing Grammar and Pronunciation)	CO2,CO3		
	Unit 2	Introd	8			
		Logica	l/Analytical			

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	UNIVERSITY
	Beyond Boundaries

	веубла воил	uurit5
1	Syllogism Letter Series Coding, Decoding, Ranking & Their Comparison Level-1	CO4
2	Number Puzzles	CO5
3	Selection Based On Given Conditions	CO5
Unit 3	Quantitative Aptitude	
1	Number Systems Level 1 Vedic Maths Level-1	CO6
2	Percentage ,Ratio & Proportion Mensuration - Area & Volume Algebra	CO6
Unit 4	Verbal Abilities – 1	
1	Reading Comprehension	CO1
2	Spotting the Errors	CO2
Unit 5	Time & Priority Management	
1	Steven Covey Time Management Matrix	CO3
2	Creating Self Time Management Tracker	CO3
Weightage	Class Assignment/Free Speech Exercises / JAM – 60% Group	
Distribution	Presentations/Mock Interviews/GD/ Reasoning, Quant & Aptitude –	
	40%	
Text Book/s	Wiley's Quantitative Aptitude-P Anand Quantum CAT – Arihant Quicker Maths- M. Tyra Power of Positive Action (English, Paperl Hill) Streets of Attitude (English, Paperback, Cary Fagan, Elizabeth Pillars of self-esteem and awareness – Nathaniel Brandon Goal Setting (English, Paperback, W	pack, Napoleon Wilson) The 6



Sch	ool: SSMFE	Batch 2024-28		
Program: B.Sc. (Animation		Current Academic Year: 2025-26		
	X and Gaming Design)			
Bra	nch: Mass Communication	Semester: 3		
1	Course Code	BSA228		
2	Course Title	Photography & VFX		
3	Credits	1		
4	Contact Hours (L-T-P)	0-0-2		
5	Course Type	Core Elective		
6	Course Objective	Impart knowledge in Photography as an artistic medium. Understand		
		techniques of Photography Create effective storytelling through photo		
8	Course Description	Students Will Learn The Core Basic of Digital Photography, effects of		
		artistic arrangement. It will helpful for them in creating VFX environr	nent, Matte	
		painting, etc.,	1	
9	Outline Syllabus		CO Mapping	
	Unit 1	History of Photography		
	1	Principle of Camera Obscura	CO1	
	2	Photography artist study	CO1	
	3	Aesthetics study of photography in documentary and creative	CO1	
		photography		
	Unit 2	Characteristics of Light		
	1	Light Spectrum and color Temperature	CO2	
	2	Camera structure and their functions	CO2	
	3	Camera Lenses and their types	CO2	
	Unit 3	Lighting Techniques		
	1	Indoor and Outdoor light study	CO3	
	2	Light Kits and Reflectors	CO3	
	3	Light study through Black and White Photography	CO3	
	Unit 4	Accessories used in Photography		
	1	Exposure and Controls	CO3	
	2	Flash and Lighting	CO3	
	3	Reflectors	CO3	
	Unit 5	Creative Photography		
	1	Macro Photography	CO4, CO6	
	2	Light Painting and Freeze Frame Photography	CO6	
	3	DRI and Panoramas	CO5, CO6	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	Text Book/s	Digital Photography Step by Step - Tom, Ang		
	Other References The Complete Digital SLR Handbook: Master Your Camera to Take Pictures Like Pro			

School: SSMFE		Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2025-26
,VFX and Gaming Design)		
Bra	nch: Mass Communication	Semester: 3
1	Course Code	AVG227
2	Course Title	Gaming Devices
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2



5	Course Type	Core E	lective	a aries		
6	Course Objective					
		gaming				
			lore game development requirement in android			
		To identify troubleshooting techniques and best practices				
		To explore various build / publishing platforms				
7	Course Outcomes	After completing the course, the student will be able to:				
		CO1 Describe more about the hand held devices / consoles and android versions				
			including the publishing platforms			
		CO2	Summarize the specialties and functionality required for the n	nobile devices		
		CO3	Compare the process of game development techniques for the			
		CO4	Use game development technique for the android			
		CO5	Relate the android troubleshooting methods and best practices			
		CO6	Collaborate various optimization techniques and develop gam			
			platforms			
8	Course Description	The co	urse is designed to equip students with the fundamentals of hand	dheld devices		
	P • • • • • • • • • • • • • • • • • • •		concepts. The course begins with basic concepts and ends with			
			ues used in game development.	1		
9	Outline Syllabus		<u> </u>	CO Mapping		
	Unit 1	Overvi	ew of Handled Device	11 3		
	1	Introdu		CO1		
	2		of handled devices & OS,	CO1		
	3		of API and SDK	CO1		
	4	Android Versions, Google play Services,		CO1		
	5		Unity build Platform & Settings			
	Unit 2		id Game	CO1		
1			tanding,	CO2		
2			up the development environment – connecting to a device	CO2		
	3		ties of the mobile device	CO2		
	4		d Components – Unity Remote-	CO2		
	5		vel Settings- Functionality – High-end-graphics	CO2		
	6		d profiler – debugging, Android SDK	CO2		
	Unit 3		id setup			
	1		ayer and Networking	CO3,CO4		
	2		g the app on the device / emulator/ simulator,	CO3,CO4		
	3		d developer console,	CO3,CO4		
	4		Adding achievements in the game,			
	5		Saving game stats			
	6		Unity Services, Google API			
	7		Adding social media integration, User Touch Input – Single &			
		_	Adding social media integration, User Touch Input – Single & C Multi, summary			
	Unit 4	Troub	eshooting and Best Practices			
	1		Measuring performance Android profiler – GPU activity –			
	2		Player Statistics – Script Statistics – Memory allocated by	CO5		
		scripts	,			
	3		ging android devices – Profiler timeline – CPU area –	CO5		
	4		ing area – memory area – audio area – physics area – GPU	CO5		
		area,				
	5		actice techniques – high speed – off-screen particle technique	CO5		
			y – pool technique,			
	6		ble profile tool.	CO5		
•						



7	Occlusion culling, Light ma	Occlusion culling, Light mapping			
Unit 5	Building & Publishing	Building & Publishing			
1	Optimizing the APK,			CO6	
2	, ,	w, Add scene, Switching pla	tforms, PC	CO6	
	or Mac Standalone build,				
3	Standalone –Rendering and	optimization – Quality		CO6	
Mode of examination	Jury				
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%		
Text Book/s	 Mastering Android Game Development with Unity –Siddharth Shekar, Wajahat Karim – Packt Publishing Limited (25 May 2017) - ISBN-10: 9781783550777,ISBN-13: 978-1783550777,ASIN: 1783550775 Unity 5 for Android Essentials - Valera Cogut – Packt Publishing; 1 edition (5 August 2015) - ASIN: B00YSILC66 				
Other References	Mobile Game Development with Unity: Build Once, Deploy Anywhere - Jonathon Manning (Author), Paris Buttfield-Addison (Author) - O'Reilly Media; 1 edition (September 4, 2017) - ISBN-10: 1491944749,ISBN-13: 978-1491944745				



		Beyond Bo	undaries		
School: SSMFE		Batch 2024-28			
Program: B.Sc. (Animation		Current Academic Year: 2025-26			
,VF	X and Gaming Design)				
Bra	nch: Mass Communication	Semester: 3			
1	Course Code	RBL001			
2	Course Title	Research Based Learning – I			
3	Credits	-			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Type	-			
6	Course Objective	The objective of this course is to:			
		Strengthen the academic research ability of the students.			
		Evolve the inquisitiveness of the students towards society and various factors			
		affecting media and society at a large.			
		Enhance the problem solving skills of the students			
8	Course Description	The course is designed to inculcate the research value and skills am	ong the students.		
9	Outline Syllabus		CO Mapping		
	Unit 1	Start of Project/ Dissertation	CO1		
	Unit 2	List of Project/ Dissertation proposal area shall be floated to the	CO1		
		students			
	Unit 3	Mutual Agreement signed between Supervisor & Student	CO1		
	Unit 4	Submission of proposal form by student to the Dissertation/ Project	CO2, CO3		
		coordinator of the Department after approval from the Supervisor			
	Unit 5	First Review of Topic Second Review of Topic Approval of Topic	CO4,		
		Mapping of Dissertation/ Projects to PO-PSO	CO5,C06		
	Mode of examination	Only An Audit course			
	Evaluations	CA 100% MTE 0% ETE 0%			
		· · · · · · · · · · · · · · · · · · ·			



C - 1-	I. COMEE	D-4-L 2024 20	daries			
	nool: SSMFE	Batch 2024-28				
	ogram: B.Sc. (Animation	Current Academic Year: 2025-26				
	X and Gaming Design) nnch: Mass Communication	Semester: 3				
-						
1	Course Code Course Title	VOF206				
2		Motion Graphics & TVC				
3	Credits (L. T. D.)	3				
4	Contact Hours (L-T-P)	0-2-2				
<u>5</u>	Course Type	Co-Requisite				
0	Course Objective	Familiarize the tools and techniques to create standard VFX shots	itina			
		Learn Problem solving techniques to rectify the errors during compositing. Create content for broadcast, feature film and web animation				
8	Course Description	Students will learn core concepts of 2D & 3D Digital Compositing, H	istorical			
o	Course Description	Development, Creating Virtual Realm & Video Art.	istoricai			
9	Outline Syllabus	Development, Creating Virtual Realin & Video Art.	CO Mapping			
<u>, </u>	Unit 1	History of Compositing	CO Mapping			
	1	Terminologies	CO1			
	2	Physical Compositing, Multiple exposure,	CO2			
	3	Background Projection, Matting,	CO1&CO2			
	4	Digital Compositing,	CO1&CO2			
	5	Node based and Layer Based Compositing.	CO1&			
	6	Visual information and the camera,	CO1&CO2			
	Unit 2	Digital Image	COTACO2			
	1	Digital Image Generation, Pixels, Components and Channels,	CO3			
	2	Bit Depth, Floating point and High Dynamic Range Imagery,	CO3			
	3	HSV Color, YUV color, Digital Image file formats, Channels,	CO3			
	3	Compression.	03			
4		Color Manipulation, Levels, Variations, Multiply, Add,	CO3			
	5	Gamma Correction, Exposure Correction, Invert, Contrast, HSV	CO3			
3		manipulations	003			
	Unit 3	Layers				
	1	Layer and Node based compositing.	CO3&CO4			
	2	Blending layers, Matte Image, Masking, and Morphing - Chroma	CO3&CO4			
		Keying, Garbage Mattes, Edge Mattes, Luminance Keying,				
		Chrominance Keying, Difference Matting, Plug-ins and tools for				
		keying.				
	3	Tracking and Stabilization, Tracking an element, 2D tracking,	CO4			
		Perspective tracking, Stabilizing footage.				
	4	Limitations of tracking and stabilizing tools.	CO3			
	5	Tools for advanced tracking and match moving.	CO3&CO4			
	6	Digital Imagery, Color Correction	CO3			
	Unit 4	Lighting and Composition				
	1	Creating elements, Lighting in compositing tool, Matching live and	CO5			
		virtual cameras.				
2		3D Compositing, Vanishing point conversion, creating 3D	CO5			
		compositing using 2D images,				
	3	Working with camera and lighting, effects, Working with Multipass	CO5			
		Rendering, Alpha and Luma mattes, Z depth maps, Blending passes				
		and effects.				
	4	Animation, 2D and 3D transformation, Temporal and spatial	CO6			
		interpolation, speed graph, optimizing key frames, expressions for				
		animation, Time Remapping				



Unit 5	Theory and Practi	ce of Video Art		
1	History of Video A	History of Video Art, Contemporary video style, culture and		
	emotion reference -	emotion reference -		
2	Video synthesizer,	real-time video art, tools and tec	hniques,	CO6
	applications -			
3	Music visualization	and media art, automation to m	usic, applications	CO6
	and tools			
4	Video art as art for	n, Interactive film, display and p	rojection, case	CO6
	studies.			
5	Learning Lab:			CO6
	Create 2.5D Animation of an exterior and interior scene.			
	Animate a slideshow using images imported into compositing.			
	Track and composite chroma footage to a background, color correct			
	the scene for film.			
	Animate and composite 3D rendered passes with 2D footages.			
Mode of examination	Jury			
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	SIGGRAPI The Art and Wright's Co	ng Digital Images - T. Porter and H '84, 18 (1984) I d Science of Digital Compositing Compositing Visual Effects: Esser J2007) - Paperback (2007) - Wri	g - Ron Brinkman tials for the Aspirin	
Reference Book	Compositir	ng Visual Effects – Essentials for	aspiring artists - St	eve Wright





Semester IV

,VF2 Brai 1 2	gram: B.Sc. (Animation X and Gaming Design) nch: Mass Communication Course Code	Current Academic Year: 2025-26				
Brai 1 2	nch: Mass Communication	Samester: IV				
1 2		Samestar: IV				
2	Course Code	Schiester: 1 v	Semester: IV			
		AVG230				
	Course Title	VFX Compositing -II				
3	Credits	4				
4	Contact Hours (L-T-P)	2-2-0				
5	Course Type	Core Compulsory				
6	Course Objective	Familiarize the Concepts and techniques used in compositing				
		To familiarize in Advanced In-Depth Compositing				
8	Course Description	Students will learn core concepts of 2D & 3D Digital Compositing,	Historical			
		Development, Creating Virtual Realm & Video Art.				
9	Outline Syllabus		CO Mapping			
	Unit 1	Channels				
	1	Pass Management,	CO1			
	2	Bit Depth Allocation	CO1			
	3	Finding The Best Depth Channels	CO1			
	4	Color Channels for the Project	CO1			
	Unit 2	Color Correction				
	1	The LUT use and Specifications	CO2			
	2	Finding the Black's and White's Node reusing to Maintain Color	CO2			
		Correction				
	3	Use of Plugin's in 3D Channels	CO2			
Unit 3		Advanced In-Depth Compositing,				
1		Concepts and Techniques to Compositing Foliage	CO3			
	2	Learn to Composite Hair and Fur	CO3			
	4	Creating and Merging Horizon Lines	CO3			
	5	Using Vector Blur For Quicker Results	CO3			
	Unit 4	Layer, Node & Projection				
	1	Creating Macro's and Dummies,	CO4			
	2	3D Layers / Nodes in Brief,	CO4			
	3	3D Camera Projection and Tracking,	CO5			
	4	3D Channels and Depth Creation,	CO5			
	5	RGB Mattes and Rotoscopy Solutions.				
	Unit 5	Compositing Lab	CO5			
	1	Compositing a Cityscape with Live Footage.	CO5			
	2	Compositing an Explosion Accident.	CO6			
	3	Compositing a Live scene with Multiple CG Characters.	CO6			
	4	Compositing a natural Disaster scene.	CO6			
Mode of examination		Jury				
	Evaluations	CA 25% CE(Viva) 25% ETE 50%				
	Text Book/s • Compositing Digital Images - T. Porter and T. Duff I Proceedings of SIGGRAPH '84, 18 (1984)					
	The Art and Science of Digital Compositing - Ron Brinkmann					
		 Wright's Compositing Visual Effects: Essentials for the Asp 				
		[Paperback]2007) - Paperback (2007) - S.Wright	-			
	Compositing Visual Effects – Essentials for aspiring artists -Steve Wright					
	Reference Book	Compositing Visual Effects – Essentials for aspiring artists -	- Steve Wright			



Sc	School: SSMFE		Batch 2024-28			
Programme: B.Sc. Animation,			ion, Current Academic Year: 2025-26			
VFX & Gaming Design						
Br	anch: Mass C	ommunicati	on Semester: 4			
1	Course Cod	e	AVG239			
2	Course Title	9	AR VR			
3	Credits		3			
4	Contact Ho	urs (L-T-P)	1-2-0			
5	Course Typ	e	Core			
6	Course	• U	nderstand key Augmented Reality (AR) concepts and devel	op and create a functional		
	Objective		ototype			
			entify VR hardware components, Implement VR interaction	n in Unity and develop a basic VR		
			vironment.	luon on de aminetin a fan internactivitus		
			cilize AR Foundation and VR SDKs in Unity. Implement acd optimize AR and VR applications for performance.	ivanced scripting for interactivity		
7	Course		upleting the course, the student will be able to:			
-	Outcomes		Understand the fundamental concepts and distinctions betw	een Augmented Reality (AR) and		
			Virtual Reality (VR) technologies in the context of gaming.	• • •		
			Develop practical skills in utilizing Unity, covering scene so			
			n C#, and implementing both AR and VR components.	aponents.		
		CO3	Apply AR development principles, including marker-based	AR development principles, including marker-based tracking, integration in Unity, and		
			creation of a simple AR application.			
			Apply VR development techniques, encompassing hardwar	- -		
			nteraction implementation, and the creation of a basic VR of	-		
			•	re Unity's AR Foundation, various VR SDKs, advanced scripting, user interface		
			mplementation, and performance optimization for AR and			
			Design and develop a capstone AR or VR game project, int			
			showcase their projects to peers, gaining valuable experience	te in project presentation and		
			refinement based on feedback.			
8	Course		e introduces students to the exciting world of Augmented F	• • •		
	Descriptio		a focus on creating immersive gaming experiences using the			
	n	_	ands-on experience in developing AR and VR projects, un	derstanding the fundamentals of		
	O 411 G 11		nologies, and applying them to game development.	[CO] [
9	Outline Syll	1	· AD IND	CO Mapping		
			ion to AR and VR	CO1		
	1 Overview of A			CO1		
	2 Unity Basics3 Fundamentals of		tals of AR Development	CO1		
	Unit 2		Development in Unity	COI		
	1		vare and Devices	CO2		
	2		etion Techniques	CO2		
	3		Basic VR Environment	CO2		
<u> </u>	<u> </u>	Dunding	Danie - It Difficilitation			





Unit 3	Advanced AR and VR Development				
1	Unity's AR Foundation and VR SDKs	CO3			
2	Advanced Scripting for AR and VR	CO3			
3	User Interfaces in AR and VR	CO4			
Unit 4	Optimization and Performance				
1	Capstone Project Overview	CO4			
2	Testing and Profiling AR and VR Applications	CO5			
3	Strategies for Improving Frame Rates	CO5			
Unit 5	Final Project and Showcase				
1	Project Presentation and showcase	CO6			
2	Project Development	CO6			
3	Final Project Showcase	CO6			
Mode of	Jury				
examination					
Evaluations	CA 25% CE(Viva) 25% ETE 50%				
Text Book/s	 Augmented Reality with Unity AR Foundation: A Practical Guide to cross-platform AR development with Unity 2020 and later versions, Author: Jonathan Linowes, Publisher: Packt Publishing Ltd, 2021, ISBN- 1838982965, 9781838982966 Unity 2020 Virtual Reality Projects - Third Edition, Author: Jonathan Linowes, Released July 2020, Publisher(s): Packt Publishing, ISBN: 978183921733 				
Other References	 Unity 2018 Augmented Reality Projects: Build four immersive and fun AR applications using ARkit, ARCore, and Vuforia - Jesse Glover (Author) - Packt Publishing - ebooks Account (July 30, 2018) - ISBN-10: 9781788838764,ISBN-13: 978-1788838764. Learning Virtual Reality: Developing Immersive Experiences and Applications for Desktop, Web, and Mobile - by Tony Parisi (Author) - O'Reilly Media; 1 edition (November 20, 2015) - ISBN-10:9781491922835, ISBN-13: 978-1491922835, ASIN: 1491922834. 				



Sch	School: SSMFE Batch 2024-28			
	ogram: B.Sc. (Animation	Current Academic Year: 2025-26		
	TX and Gaming Design)			
Bra	anch: Mass Communication	Semester: 4		
1	Course Code	AVG232		
2	Course Title	Game Testing*		
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core Elective		
6	Course Objective	To explain game testing methodologies.		
	Source Objective	To discuss test phases, process and plan.		
		To assess various like ADHOC, combinatorial and other testing technology	nigues.	
		To summarize game testing procedures for handled devices. To explo		
		publishing platforms and their process.		
8	Course Description	The course is designed to equip students with Game Publishing and	Testing concepts	
	_	and to apply these concepts and techniques in game development.	-	
9	Outline Syllabus		CO Mapping	
	Unit 1	Overview of testing		
	1	Introduction	CO1	
	2	Two rules of game testing.	CO1	
	3	Being a game tester.	CO1	
	4	Types of game testing.	CO1	
	5	Why testing is important.	COI	
	6	Testing strategy.	CO1	
	7	Testing vs. debugging, and Testing coverage.	CO1	
Unit 2		Testing Fundamentals		
1		Software quality.	CO2	
	2	Test phases.	CO2	
	3	Test process.	CO2	
	4	Testing by numbers.	CO2	
	5	Test plan.	CO2	
	Unit 3	Testing Techniques	002	
	1	Combinatorial testing.	CO3	
	2	Test Flow Diagrams.	CO3	
	3	Clean room testing.	CO3	
	4	Test trees.	CO3	
	5	Play testing and ADHOC Testing.	CO3	
	6	Defect Triggers.	CO3	
	7	Game test Automation.	CO3	
	8	Capture / playback testing.	CO3	
	9	Software testing processes.	CO3	
	Unit 4	Game Testing Procedures		
	1	Game Components and breakdown structure.	CO4,CO5	
	2	Game Testing Techniques.	CO4,CO5	
	3	Special considerations for game testing.	CO4,CO5	
4		Android Game testing, Bug spotting.	CO4,CO5	
Unit 5		Unity Game Publishing		
	1	Introduction	CO6	
	2	Type of game publishing platforms. Fundamentals.	CO6	
	3	How to build for various platforms like pc, mobile, web	CO6	



	platforms using the variety	of tools.		
4	Build features.			CO6
5	Packing up assets.			CO6
6	Game Aspects.			CO6
Mode of examination	Jury			
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
Text Book/s	Cengage Learning; New edition edition (22 June 2009) - ISBN-10: 1435439473, ISBN-13: 978-1435439474 Unity 2018 By Example: Learn about game and virtual reality development by creating five engaging projects - by Alan Thorn (Author) - Packt Publishing; 2 edition (July 31, 2018) - ASIN: B0789J4DVP. Mastering Unity 2017 Game Development with C# - by Alan Thorn (Author) - Packt Publishing Limited; 2nd Revised edition edition (30 October 2017) - ISBN-10: 1788479831, ISBN-13: 978- Game Testing: All in One - by Charles P. Schultz (Author), Robert Bryant (Author) - Mercury Learning & Information; 3rd edition edition (20 October 2016) - ISBN-10: 1942270763, ISBN-13: 978-1942270768. Game Development Essentials: Game QA & Testing - by Levy (Author), Jeannie Novak (Author) - Delmar 1788479837.			
Other References	Getting Started with Unity 2018: A Beginner's Guide to 2D and 3D game development with Unity - by Dr. Edward Lavieri (Author) - Packt Publishing edition (March 22, 2018) - ASIN: B07BP9Y7RB. Mobile Game Design Essentials - Dr. Claudio Scolastici (Author), David No (Author) - Packt Publishing (November 21, 2013) - ISBN-10: 184969298X, ISBN-13: 978-1849692984.		olishing; 3	

Sch	nool: SSMFE	Batch 2024-28
Program: B.Sc. (Animation ,VFX and Gaming Design)		Current Academic Year: 2025-26
	anch: Mass Communication	Semester: 4
1	Course Code	AVG233
2	Course Title	Particles & FX *
3	Credits	3
4	Contact Hours (L-T-P)	1-2-0
5	Course Type	Core Compulsory





6	Course Objective	Understand and formulate the dynamic simulations to be created.					
	Je salate di Agreele e	To create simple dynamic simulations of object collisions and destructions.					
		To create particle simulations for simulating liquids and gas.					
		To understand and implement scripting for creating dynamic simulations.					
8	Course Description		Students Will Learn the Core Basic of 3D effects creation in Autodesk Maya. They				
	1		Physics behind effects creation, attr				
9	Outline Syllabus	•	•		CO Mapping		
	Unit 1	Introduction to	Maya Dynamics				
	1	Introduction to A	applied Physics and Quantum mech	nanics	CO1		
	2	Kinetic Motion			CO1		
	3	Energy Conversi	on		CO1		
	Unit 2	Rigid Bodies					
	1	Introduction to s	pecial effects		CO2		
	2	Rigid bodies – A	ctive and passive rigid bodies		CO2		
	3		ocedural animation using rigid bod	ies	CO2		
	4	Collisions			CO4		
	Unit 3	Emitters					
2		Particles			CO6		
3		Emitter types and	d Attributes		CO6		
	4	Deflectors and its attributes			CO3		
	5	Simulating partic	ele effects		CO3		
	Unit 4	Fields					
	1	Goals			CO5		
	2	Soft Bodies			CO4		
	3	Animating soft b			CO4		
	4	Fields and its attributes			CO5		
	5	Simulation of fie	elds		CO5		
	Unit 5	Constraints					
	1	Introduction			CO6		
	2	Types & Attribu	tes		CO6		
	3	Nail & Pin			CO6		
	Evaluations	CA 25%	CE(Viva) 25%	ETE 50%			
	Text Book/s		with Autodesk Maya: Create Indus shek Kumar	try-Standard Visua	al Effects from		
	Other References						



Sch	nool: SSMFE	Batch 2024-28	TU UTTES			
Program: B.Sc. (Animation		Current Academic Year: 2025-26				
,VI	FX and Gaming Design)					
Bra	anch: Mass Communication	Semester: 4				
1	Course Code	OPE				
2	Course Title	Basic Still Photography				
3	Credits	3				
4	Contact Hours (L-T-P)	0-2-2				
5	Course Type	Core Elective				
6	Course Objective	Describe photography, types of photography, and their purpose				
		Different composition technique				
		Elaborate on basics of visual literacy and composition				
0	C	Lens and its functions	Dhataanaha			
8	Course Description	This course provides an introduction to basic visual composition and techniques	Pnotograpny			
9	Outline Syllabus	teeninques	CO Mapping			
	Unit 1	Introduction to Photography	mapping			
	1	What is photography? The role & importance of photography.	CO1			
	2	Brief History of photography and how Camera works?	CO1			
		Principles of Camera Obscura and types of Cameras	CO1			
	Unit 2	Principles of Photographic composition	001			
	1	Concepts of composition	CO2,CO5			
	2	Digital Capture	CO2,CO6			
3		Various types of Digital Capture and Image	CO2,CO6			
Unit 3		Lighting	232,333			
1		Sources of light: Natural & Artificial Correct exposure.	CO3			
2		Nature and physical properties of light	CO3			
_		Direction & angle of light: Front, side, top & back				
	3	Lighting contrast and its control by fill in lights, one-, two- & three-	CO2,CO3			
		point lighting: Key, fill and back light				
	Unit 4	Photography Composition				
	1	Rule of 3rd, How to shoot buildings, monuments and portrait	CO3,CO5			
	2	Importance of lens in photography	CO6,CO5			
	3	Different types of camera lenses	CO3,CO5			
	Unit 5	Introduction to image editing software Photoshop	CO6			
	1	Basic image editing technique	CO3,CO2,CO 6			
	2	Understanding common terms like Resolution, Depth, Cropping,	CO3,CO2,CO			
	2	Scaling, Hue, Saturation, vibrance, Sharpness, etc.	6			
3		Final Project	CO3,CO5,CO 2			
	Mode of examination	Jury				
	Evaluations	CA 25% CE(Viva) 25% ETE 50%				
	Text Book/s	 Michael Langford Basic Photography, Focal Press James A. Folts Ronald P. Lovell Handbook of Photography, Fred C. Zwahlen, Jr. Delmal Thomsan learning 				
	Other References • Lee Frost Photography, Hodder Headline • Audio – Vision – Sound on Screen by Michael Chion					



	Beyond Boundaries				
	School: SSMFE Batch 2024-28				
	gram: B.Sc. (Animation	Current Academic Year: 2025-26			
	X and Gaming Design)				
_	nch: Mass Communication	Semester: 4			
1	Course Code	AVG234			
2	Course Title	VFX & Gaming Animation			
3	Credits	1			
4	Contact Hours (L-T-P)	0-0-2			
5	Course Type	Core Compulsory			
6	Course Objective	It enables the students to learn the basis of photogrammetry explainir	ng what this		
		form of scanning consists of.			
		Allows students to learn technique relates to photography and what y	ou should do to		
		capture a real 3D object.			
		Guides the student to create 3D by using techniques behind			
		3D scanning to create models based on real objects.			
8	Course Description	Students will learn the use of 2D & 3D Application to create Various	kinds of		
		Animation for VFX & Games.			
9	Outline Syllabus		CO Mapping		
	Unit 1	Animation for VFX			
	1	Understanding the VFX Animation & Simulation	CO1		
	2	Rotomation & Mo-Cap	CO1		
	3	Body Mechanics	CO1		
	Unit 2	Creature Animation			
	1	Reference Study	CO2		
	2	Rig Testing & Blocking	CO2		
	3	Graph Editing.	CO2		
	Unit 3	Animation for Games			
	1	Understand Idle, Walk, Run & Jump Animation Loop	CO3		
	2	Sprite in Games.	CO3		
	3	Game Animation Fundamentals.	CO3		
	Unit 4	Game Animation			
	1	Blocking the Animation Cycle.	CO4		
	2	Breakdown & Polishing.	CO4		
	3	Transition/Blending the All Animation Cycle	CO4		
	Unit 5	Game Engine Animation			
	1	Bake Simulation	CO5 & CO6		
	2	Time Editor & Clip Layers	CO5 & CO6		
	3	Application to Game Engine	CO5 & CO6		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%			
	Text Book/s	Game Anim (Paperback) Released: 27 Jan 2019 By: Jonatha	an Cooper		
		• (Author), Publisher Imprint: A K Peters			
	Other References	3D Game Development with Unity 1st Edition 2022 Softbou	nd by		
	LANZINGER, CRC Press				
School: SSMFE Batch 2024-28					
	Program: B.Sc. (Animation Current Academic Year: 2025-26				
	,VFX and Gaming Design)				
Branch: Mass Communication Semester: 4					
1 Course Code AVG235					
	2 Course Title Visual Scripting for Game Development				
	3 Credits 1				
4	Contact Hours (L-T-P)	0-0-2			
	Contact Hours (L-1-1)	V V #			



5	Course Type	Core Elective		
6	Course Objective	VS Introduction Features and Limitations Purpose of VS Introduction to Gaming VS		
	_	tools Unity VS system (BOLT)		
8	Course Description	The course is designed to equip students with the basics of visual scripting and the		
		ease in varied workplace environment. The course begins with visual scripting, VS		
		Tools and ends with the use of Unity Bolt in game development.		
9	Outline Syllabus		CO Mapping	
	Unit 1	Visual Scripting Introduction		
	1	Introduction to visual scripting.	CO1	
	2	Feature and Limitations.	CO1	
	3	Purpose of visual scripting.	CO1	
	4	Introduction to Gaming Visual Scripting Tools.	CO1	
	Unit 2	Basic Concepts		
	1	Variables.	CO2	
	2	Graphs.	CO2	
	3	Machine and Macros.	CO2	
	4	Groups.	CO2	
	Unit 2	Flow Graphs and State Graphs		
	1	Flow Graphs.	CO3, CO4	
	2	Unit and Ports.	CO3, CO4	
	3	Connection and Relations.	CO3	
	4	Predictive and Live Debugging.	CO3	
	5	Super unit.	CO3	
	6	State Graphs – Flow state and super state.	CO3, CO4	
	7	Transitions and State unit.	CO3, CO4	
	Unit 3	Unit Reference		
	1	Self, Control.	CO4, CO5	
	2	Time, Events, Variable.	CO5	
	3	Nulls, Formula.	CO5	
	Unit 4	Scripting and Advance Topic		
	1	Custom Types.	CO6	
	2	Variables API.	CO6	
	3	Event API, Refactoring.	CO6	
	4	Live Editing, Prefabs.	CO6	
	5	Version control.	CO6	
	6	Build mobile and pc games.	CO6	
	Mode of examination	Jury		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	Text Book/s	 The Game Production Handbook, 3rd Edition by Heather Ma 	xwell Chandler	
		Published by Jones & Bartlett Learning, 2013		
		Game Development Essentials: Game Project Management 1	st Edition by	
		John Hight (Author), Jeannie Novak (Author)		
		Game Development Essentials: An Introduction 2nd Edition by Jeannie		
		Novak (Author)		
	Other References	The Visual Effects Producer: Understanding the Art and Business of VFX -		
		Charles Finance, Susan Zwerman, Publisher: Focal Press; 1 e	edition (August	
		28, 2009)		
		The VES Handbook of Visual Effects: Industry Standard VF		
		Procedures - Jeffrey A. Okun, Publisher: Focal Press; 1 edition	on (July 8, 2010)	



Sch	School: SSMFE Batch 2024-28				
	ogram: B.Sc. (Animation	Current Academic Year: 2025-26			
	X and Gaming Design)	Current Academic Tear. 2023-20			
	anch: Mass Communication	Semester: 4			
1	Course Code	ARP 306			
2	Course Title				
3	Credits	Communicative English IV – Campus to Corporate 2			
4	Contact Hours (L-T-P)	1-0-2			
	` ′				
5	Course Type Course Objective	Core Elective			
	Course Objective	To enhance holistic development of students and improve their employability skills. Provide a 360 degree exposure to learning elements of Business English readiness program, behavioral traits, achieve softer communication levels and a positive self-branding along with augmenting numerical and altitudinal abilities. To up skill and upgrade students' across varied industry needs to enhance employability skills. By the end of this semester, a will have entered the threshold of his/her 3rd phase of employability enhancement and skill building activity exercise.			
8	Course Description	This penultimate stage introduces the student to the basics of Human Resources. Allows the student to understand and interpret KRA KPI and understand Job descriptions. A student also understands how to manage conflicts, brand himself/herself, understand relations and empathize others with level-4 of quant, aptitude and logical reasoning			
9	Outline Syllabus		CO Mapping		
	Unit 1	Ace the Interview			
	1	HR Sensitization (Role Clarity KRA KPI Understanding JD)	CO1		
		Conflict Management			
	2	Negotiation Skills Personal Branding	CO3, CO4		
	3	Uploading & Curating Resumes in Job Portals, getting Your	CO1, CO3		
		Resumes Noticed Writing Cover Letters Relationship			
		Management			
		Introduction to APTITUDE TRAINING- Reasoning- Logical/			
		Analytical			
	1	Sitting Arrangement & Venn Diagrams Puzzles Distribution	CO4		
		Selection			
	2	Direction Sense Statement & Conclusion Strong & Weak	CO4		
	_	Arguments	~~~		
	3	Analogies, Odd One out Cause & Effect	CO5		
	Unit 3	Quantitative Aptitude	GO 1		
	1	Average, Ratio & Proportions, Mixtures & Allegation	CO6		
	2	Geometry-Lines, Angles & Triangles	CO6		
3		Problem of Ages Data Sufficiency - L2	CO6		
	Unit 4	Verbal Abilities-4	G0.1		
1		Antonyms and Synonyms	CO1		
2		Idioms and Phrases	CO2		
Unit 5		Problem Solving and Case Studies			
1		Real time Case Study Solving Exercises	CO4		
2		Intra student Mock Situation Handling Exercises	CO4		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	•		
	Text Book/s • (CA)Class Assignment/Free Speech Exercises / JAM – 60% (ETE) Group Presentations/Mock Interviews/GD/ Reasoning, Quant & Aptitude – 40%				
	Other References • Wiley's Quantitative Aptitude-P Anand Quantum CAT – Arihant				
		They begand that the Aparticus of Ananta Quantum CAT = Al.	munt		



Publications | Quicker Maths- M. Tyra | Power of Positive Action (English, Paperback, Napoleon Hill) | Streets of Attitude (English, Paperback, Cary Fagan, Elizabeth Wilson) The 6 Pillars of self-esteem and awareness — Nathaniel Brandon | Goal Setting (English, Paperback, Wilson Dobson



Sch	ool: SSMFE	Batch 2024-28			
Program: B.Sc. (Animation		Current Academic Year: 2025-26			
	X and Gaming Design)				
Bra	nch: Mass Communication	Semester: 4			
1	Course Code	AVG236			
2	Course Title	Game Architecture Development *			
3	Credits	2			
4	Contact Hours (L-T-P)	0-1-2			
5	Course Type	Core Elective			
6	Course Objective	To explain layer of game architecture.			
		To assess role of game engine framework			
		To explain the importance of game software architecture			
		To discuss components involved in game logic, devices, lifetimeTo recognize the			
		flow in runtime game engine architecture.			
8	Course Description	The course is designed to equip students with detailed knowledge of game			
		architecture and its components. Course starts with game architecture and ends with			
		game logic and game engine concepts			
9	Outline Syllabus		CO Mapping		
	Unit 1	Overview of Game Architecture			
	1	Introduction.	CO1		
	2	Layers of Game Architecture.	CO1		
	3	Game software architecture.	CO1		
	Unit 2	Game development comparisons.	CO1		
	1	Game architecture.	CO1		
	2	Runtime engine architecture.	CO1		
	3	Layer of Game Architecture			
	4	Game engine framework – a. Graphics, Rendering & physics.	CO2		
	5	Game stats, Data & Memory & processing.	CO2		
	6	Screen Monitor Display.	CO2		
	7	operating System.	CO2		
	8	openGL&Directx Computer Hardware & Graphic Chipset.	CO2		
Unit 3		Game software Architecture			
	1	Game Application,	CO3		
	2	Game Engine Framework.	CO3, CO5		
	3	OpenGL &Directx frame work.	CO3, CO5		
	Unit 4	Game Application Layer			
	5	Game logic.	CO4		
	2	Game view.	CO4		
	3	Devices – Input – files – Ram – Time.	CO4		
	4	Operating System – Language – DLL – Threads – network, Game	CO4, CO5		
		Lifetime – core Libs – Main Loop – Int& shutdown.			
	5	Runtime Engine Architecture			
	Unit 5	Gameplay (Input) programming.	CO6		
		AI programming.	CO6		
		Shader Graphic & visuals programming.	CO6		
		Animation & tools programming	CO6		
		Game UI Programming	CO6		
		third party Node Based programming.	CO6		
		Programming patterns.	CO6		
		Game stats & Events Programming.	CO6		
	Mode of examination Jury				



Evaluations	CA 25%	CE(Viva) 25%	ETE 50%
Text Book/s	Game Architecture and Design: A New Edition - by Andrew Rollings (Author),		
	David Morris (Author) - New Riders; Subsequent edition (24October 2003) -		
	ISBN-10: 0735713634, ISBN-13: 978-0735713635		
	Mastering Android Game Development - by Raul Portales (Author) - Packt		
	Publishing Limited (30 June	2 2015) - ISBN-10: 178355177	71, ISBN-
	13: 978-1783551774.		
Other References	Game Engine Architecture, Third Edition - by Jason Gregory (Author) -A K		
	Peters/CRC Press; 3 edition (16 August 2018) - ISBN-10: 1138035459, ISBN-13:		
	978-1138035454		
	Game Architecture and Programming (WIND) - by GaurangSinha (Author), Saurabh		
	Jain (Author), RadhaShankarmani (Author) - WileyIndia Pvt Ltd (2011) - ISBN-10:		
	9788126528875, ISBN-13: 978-		
	8126528875, ASIN: 812652	8877.	



Sch	nool: SSMFE	Batch 2024-28	naaries	
		Current Academic Year: 2025-26		
	YFX and Gaming Design)			
	anch: Mass Communication	Semester: 4		
1	Course Code	AVG237		
2	Course Title	3d Walk-through		
3	Credits	2		
4	Contact Hours (L-T-P)	0-1-2		
5	Course Type	Core Compulsory		
6	Course Objective	It enables the students to learn the 3d Tool to Create a Virtual Enviro	nment.	
		Allows students to learn, observe, analyze, and visualize the virtual v	vorld	
		Guides the student to strengthen the Perspective		
		Analysis and Virtual background.		
8	Course Description	Students will learn the use of various CGI tools to create a complete		
		model and compose with Live Action. They will understand the significant		
		Linear & Aerial Perspective, different eye levels & Camera Shots, an		
		Lights. At the end of the module, they will acquire the skill of creating	ig a	
		Virtual Set for Motion Pictures		
9	Outline Syllabus		CO Mapping	
	Unit 1	Introduction	GO1 GO2	
	1	Brainstorming session about 3D	CO1, CO2	
	2	Importance of Architectural Visualization	CO1, CO2	
	3	Role of a Designer and Visualizer	CO1, CO2	
	4	Digesting 3D training & Practicing	CO1, CO2	
	Unit 2	3ds Max interface	G07 G04	
	1	User Interface	CO5, CO6	
	2	The Viewports and Navigation	CO5, CO6	
	3	Command Panel	CO5, CO6	
	4	Scene Management Tools	CO5, CO6	
	Unit 3	Getting Started with Modeling	CO2 CO4	
	1	Modeling a Product	CO3, CO4	
	<u>2</u> 3	Furniture Modeling	CO3, CO4 CO3, CO4	
	<u> </u>	Importing CAD drawing and Modeling Importing Sketch up Model, Cleaning up and remodeling	CO3, CO4	
			CO3, CO4	
	Unit 4	Materials, Texturing, and Basics of Unwrapping Standard Maps and material browser	CO5, CO6	
	2	Arnold Materials	CO5, CO6	
	3	Projection-Mapping	CO5, CO6	
	<u>3</u>	UV Editor Interface	CO5, CO6	
	Unit 5	Lighting and Rendering	CO3, CO0	
	1	Lighting and Rendering	CO5, CO6	
	2	HDRI Lighting	CO5, CO6	
<u> </u>		Environment and Effects	CO5, CO6	
	,		CO5, CO6	
	Mode of Examination			
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	Text Book/s	Autodesk 3ds Max 2024 Basics Guide, Kelly Murdock		
	Other References	Autodesk 3ds Max 2020: A Detailed Guide to Modeling, Tex	xturing	
	One references	Lighting, and Rendering, Pradeep Mamgain	rum,	
		Lighting, and Kendering, I radeep wanigam		



		Beyond Bou	naaries	
School: SSMFE		Batch 2024-28		
Program: B.Sc. (Animation		Current Academic Year: 2025-26		
,VFX and Gaming Design)				
Bra	nch: Mass Communication	Semester: 4		
1	Course Code	RBL002		
2	Course Title	Research Based Learning – II		
3	Credits	-		
4	Contact Hours (L-T-P)	0-0-4		
5	Course Type	Pre-Requisite/AECC		
6	Course Objective	The objective of this course is to:		
		Strengthen the academic research ability of the students.		
		Evolve the inquisitiveness of the students towards society and various factors		
		affectingmedia and society at a large.		
		Enhance the problem solving skills of the students.		
8	Course Description The course is designed to inculcate the research value and skills among the student		ng the students	
9	Outline Syllabus		CO Mapping	
	Unit 1	Dissertation/ Project Monitoring Stage	CO1, CO2	
	Unit 2	Progress of Project/ Dissertation after topic approval	CO3, CO4	
	Unit 3	Evaluation of progress of Project/ Dissertation after topic approval	CO4, CO5,	
			CO6	
Unit 4		First Review of the project by internal committee (R1)	CO4, CO5,	
			CO6	
Unit 5		Second Review of the project by internal committee (R2)	CO4, CO5,	
			CO6	
M	ode of examination	Only an Audit course		
	Evaluations	CA 100% CE(Viva) 0% ETE 0%	•	



Sch	nool: SSMFE	Batch 2024-28		
	rogram: B.Sc. (Animation Current Academic Year: 2025-26			
	X and Gaming Design)			
Bra	anch: Mass Communication	Semester: 4		
1	Course Code	VAF008		
2	Course Title	Innovation & Entrepreneurship		
3	Credits	Audit		
4	Contact Hours (L-T-P)	30 Hrs		
5	Course Type	Compulsory		
6	Course Objective	 To understand the concepts of Innovation and Entrepreneursh 	ip	
		 To explore opportunities to interpret organizational output and 	d efficiency.	
		 To work effectively and professionally in teams. 		
8	Course Description	The course is designed to provide the tools necessary for starting inde		
		businesses. This course will facilitate the students with competencies		
		in key business functional areas, understand the changing business en		
		apply the new business management solutions in terms of start-up idea		
9	Outline Syllabus		CO Mapping	
	Unit 1	Understanding Innovation		
	1	Introduction to innovation	CO1	
	2	Fundamentals of Innovation	CO1	
	3	Theories of Innovation	CO1	
	Unit 2 Innovation Foundation			
	1	Business in Society, Diffusion of Innovation	CO2	
	2	Creative thinking	CO2	
	3	Innovation Management	CO2	
	Unit 3	Understanding Entrepreneurship		
	1	Introduction to Entrepreneurship	CO3	
	2	Design thinking for Entrepreneurship	CO3	
	3	Startup Methods	CO6	
	Unit 4	Entrepreneurship Foundation		
	1	Opportunity Analysis	CO4	
	2	Assembling and motivating a team	CO4	
	3	Pitching and presenting	CO6	
	Unit 5	Advance Innovation & Entrepreneurship		
	1	Advance Strategy for Innovators and Entrepreneurs	CO5	
2 Finance for Innovators and Entrepreneurs		CO5		
	3 Marketing for Innovators and Entrepreneurs CC		CO6	
Tex	kt book/s*	• Technology Ventures: From Idea to Enterprise. Byers, Dorf,		
	Edition. McGraw Hill Education. Copyright 2015. ISBN 978-125925		978-1259252754	
	(International Student Edition).			
Otl	ner References	Poornima Charantimath, (2007) "Entrepreneurship Development-	Small Business	
Enterprise", Pearson Education.				



Semester 5

Sch	ool: SSMFE	Batch 2024-28		
Pro	gram: B.Sc. (Animation Current Academic Year: 2026-27			
	X and Gaming Design)			
Bra	nch: Mass Communication	Semester: 5		
1	Course Code	AVG321		
2	Course Title	Introduction to Game Engine*		
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core Compulsory		
6	Course Objective	To explain importance of game engine		
		To elucidate scripting techniques using C++		
		To assess physics parameters required for game development To cons	truct particle	
		systems and camera techniques		
0	G B : 1:	To identify about the build process and platforms	C • • •	
8	Course Description	The course is designed to equip students, who are at a very basic level		
		design and develop programs with ease in varied workplace environm		
0	O-41 C-11-1	begins with game engine and ends with optimizing and testing the built	T	
9	Outline Syllabus	T-	CO Mapping	
	Unit 1	Introduction	G0.1	
	I	Unreal Engine Setup, Installing Unreal Engine, Installing \ Visual Studio	CO1	
	2	Creating First Project, Understanding Project Structure,		
		Understanding The Game Window Hierarchy, Understanding	CO1	
		Unread Editor.		
	3	Working With Unreal Class System ,Create Scenes,	CO1	
	4	Working With Multiple Scenes, Using 2D Objects.	CO1	
	5	Working With SFX	CO1	
	Unit 2	Working with C++		
	1	Understanding C++ Function Syntax.	CO3	
	2	Working With #Include, Namespaces.	CO3	
	3	Working With Enumerations, Creating Header Files, Using Type Alias	CO3	
	4	Understanding TMap And Map	CO3	
	Unit 3	Game Scene		
	1	Physics And Collider 2D	CO4	
	2	Working With Line Tracing	CO2, CO4	
	3	Work With Different UI Components, Handling Different Events,	CO2, CO4	
		Understanding Physics 2D, Using Landscape Layers.	CO2, CO4	
		Working With Colliders, Using Physics Material, Material, Meshes, Animations And Animator Controller 2D & 3D.		
	5	Creating Animations, Handling Multiple 2D Character Animation, CO2,		
	Creating Text Animation.		002, 001	
	Unit 4 Visualization		a	
		Camera And Particles.	CO5	
		Working With Camera Controls.	CO5	
		Understanding 3rd Person Camera Control.	CO5	
	4	Working With AI Controls.	CO5	
	5	Working With Particle System.	CO5	
	6	Using Particle System In Game	CO5	
7 Working With		Working With Particle Bounding Boxes.	CO5	



Unit 5	Game Finalizing	
1	User Interface	CO6
2	Package project– Android / PC/MAC Standalone	CO6
3	Texture compression and debug stripping	CO6
4	Quality Settings	CO6
Mode of examination	Jury	
Evaluations	CA 25% CE(Viva) 25% ETE 50%	
Text Book/s	 Unreal Development Kit Beginner's Guide - by Richard Moore (Author) - Packt Publishing (September 11, 2011) - ISBN-10: 1849690529, ISBN-13: 978-1849690522. Unreal Development Kit Game Design Cookbook - by Thomas Mooney (Author) - Packt Publishing (February 22, 2012) - ASIN: B007CXZ9D6. Blueprints Visual Scripting for Unreal Engine: Build professional 3D games with Unreal Engine 4's Visual Scripting system - by Brenden Sewell (Author) - Packt Publishing (28 July 2015) - ASIN: B00YSILVNA. 	
Other References	 Unreal Engine 4 Game Development in 24 Hours, Sams Teach Yourself - by Aram Cookson (Author), Ryan DowlingSoka (Author), Clinton Crumpler (Author) - Sams Publishing; 1 edition (June 18, 2016) - ISBN-10: 0672337622, ISBN-13: 978-0672337628. Unreal Engine 4 Game Development Quick Start Guide: Programming professional 3D games with Unreal Engine 4 - by Rachel Cordone (Author) - Packt Publishing (May 31, 2019) - ISBN-10: 1789950686, ISBN-13: 978-1789950687. 	



Sch	nool: SSMFE	Batch 2024-28	1 4 4 7 1 2 3
Program: B.Sc. (Animation		Current Academic Year: 2026-27	
,VI	X and Gaming Design)		
Bra	anch: Mass Communication	n Semester: 6	
1	Course Code	AVG340	
2	Course Title	AI for Gaming *	
3	Credits	3	
4	Contact Hours (L-T-P)	1-2-0	
5	Course Type	Core Elective	
6	Course Objective	To describe role of AI in games.	
		To define fundamental AI techniques in Game Development.	
		To identify the path finding setup for games.	
		To discuss the decision-making techniques in AI.	
		To understand neural networks in AI.	
8	Course Description	The course is designed to equip students with AI concepts and to app	ly these
		concepts and AI techniques in game development	T
9	Outline Syllabus		CO
			Mapping
	Unit 1	Introduction to AI	
	1	Understanding Generative AI	CO1
	2	Types of Generative Models	CO1
3		Ethical Considerations and Challenges	CO1
		Generative Models in Game Design	
	1	Procedural Content Generation (PCG)	CO2
	2	Dynamic Difficulty Adjustment	CO2
	3	Procedural Narrative Generation	CO2
	Unit 3	Generative Models in Animation	CO2
	1	Character Animation and Movement	CO2
	2	Motion Generation Algorithms	
	3	Advanced Animation Techniques	CO3, CO4
	Unit 4	Enhancing Game Dynamics with Generative AI	CO3, CO4
	1	Reinforcement Learning in Games	CO3, CO4
	2	Procedural Art Generation	CO3, CO4
	3	AI-driven Game Design	CO3, CO4
	Unit 5	Real-time Applications and Optimization	
1		Real-time Performance Optimization	CO5
		Integration with Game Engines and Animation Software	CO5
3 merging Trends and Future Directions C		CO5	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	
	Text Book/s	 Artificial Intelligence for Games - Ian Millington (Author), John Funge (Author) - CRC Press; 2 edition (August 6, 2009) - ISBN-10: 0123747317, ISBN-13: 978-0123747310.Auth, Kyaw (Author), ThetNaingSwe(Author) 	
	Other References		



Sch	ool: SSMFE	Batch 2024-28	1.0.07123	
Program: B.Sc. (Animation Curre		Current Academic Year: 2026-27		
	X and Gaming Design)			
	nch: Mass Communication	n Semester: 5		
1	Course Code	AVG323		
2	Course Title	Camera Tracking & Match Moving*		
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core Elective		
6	Course Objective	Familiarize the tools and techniques to create Match moving and effe	cts Learn	
	, and the second	Problem solving techniques to rectify the errors during the process Ci	reate content for	
		broadcast, feature film and animation.		
8	Course Description	Students will learn the core knowledge & techniques of Camera Trac	king & match	
		moving so that they can be able to add or merge 3d Elements into Liv	e Action	
		Footage		
9	Outline Syllabus		CO Mapping	
	Unit 1	Introduction to Match Moving		
	1	Need for Match Moving in a scene	CO1	
	2	Science & Art of Matchmoving	CO1	
	3	Understanding Camera and its types	CO1	
	Unit 2	Tracking 1		
	1	Understanding Tracking	CO2	
2		Tracking Fundamentals for Match moving	CO2	
	3 Tools and Techniques in Tracking CO		CO2	
	Unit 3	Match Moving Process		
	1	Tools in Match Moving	CO2	
	2	Techniques in Match Moving	CO2	
	3	Do's & Don'ts Match Moving	CO2	
	Unit 4	Tracking 2		
	1	Different types of Tracking	CO3	
	2	Calibrating Camera	CO3	
	3	Tracking and noise reduction	CO3	
	Unit 5	3D Integration		
	1 Set and Coordinate system CO		CO4	
	1		CO5	
	3	Final Compilation CO6		
	Mode of examination	Jury		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	Text Book/s	Book/s • The Art and Technique of Match moving: Solutions for the VFX Artist -		
		Erica Hornung		
	Other References	 Compositing Visual Effects–Essentials for the Aspiring Artis 	t - Steve Wright	
	The VES Handbook of Visual Effects - Okun J, Zwerman S			

Sch	ool: SSMFE	Batch 2024-28
Pro	gram: B.Sc. (Animation	Current Academic Year: 2026-27
,VF	X and Gaming Design)	
Bra	nch: Mass Communication	Semester: 5
1	Course Code	AVG325
2	Course Title	Rotoscopy, Paint & Comping *
3	Credits	3



4	Contact Hours (L-T-P)	1-2-0	aaries	
5	Course Type	Core Elective		
6	Course Objective	To impart technical skills in Rotoscopy and painting and application k	nowledge for	
		different requirement		
8	Course Description	Students will Learn understand about Roto paint, the one of the important part of		
	_	visual effects, Keying, Matting & removing of unwanted elements from live plates.		
9	Outline Syllabus		CO Mapping	
	Unit 1	Rotoscopy	CO1	
	1	History of Rotoscopy & Terminologies	CO1	
	2	Latest tools for Roto & Shortcuts to work faster	CO1	
	3	Understanding the frame, shot length	CO1	
	4	planning the matte usage, Multiple shapes & Repeating shapes,	CO1	
	5	Keying animation & Motion paths		
	Unit 2	Creating Shapes		
	1	Creating splines	CO 1& CO5	
	2	Transitioning between shapes	CO 1& CO5	
	3	Working with pivot points	CO 1& CO5	
	4	Key frame placement and types	CO 1& CO5	
	5	Working with Blur & Motion blur	CO 1& CO5	
	6	Checking the mattes and jitter	CO 1& CO5	
	Unit 3	Tracking		
	1	Tracking and scale and rotation	CO 2	
	2 Multiple transforms		CO 2	
	3 Averaging tracks		CO 2	
	4 Corner pinning		CO 2	
	C C		CO 2	
	Unit 4	Rotoscopy		
	1	Rotoscopy Object I	CO 3	
	2	Rotoscopy Human, Isolating extremities, Joints, Hands, Overlap,	CO 3	
	3	Rotoscopy Human fixed shapes, faces and heads, hair	CO 3	
	4	Rotoscopy movement, fast and slow movement	CO 3	
	5	Tracking to optimize roto	CO 3	
	Unit 5	Painting		
	1	Concepts and tools for painting	CO6	
	2	Cleaning plates	CO6 CO6	
	3	Wire and Rig Removal		
	4	Pixel restoration. CO6		
	Mode of examination	Jury		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
1	Text Book/s	Rotoscopy a footage containing minimum character movement	nts and no	
		camera movement.		
		Track and Rotoscopy footage with camera movement and fast	movement of	
		the characters.	_	
		Remove wire, foliage's and destructions from the footage using	ng Rotoscopy.	



Sch	ool: SSMFE	Batch 2024-28	Beyond Bon	
	gram: B.Sc. (Animation	Current Academic Year:	2026-27	
	X and Gaming Design)			
Bra	Branch: Mass Communication Semester: 5			
1	Course Code	AVG324		
2	Course Title	Web & E-Business and Gam	e Development*	
3	Credits	3		
4	Contact Hours (L-T-P)	1-2-0		
5	Course Type	Core Elective	1.6 11/ 10	
6	Course Objective	To understand conceptual framework for WordPress To understand building blocks for WordPress site		
		To understand building block To explore plugins / themes	available in WordPress	
8	Course Description		ning the techniques of wordpress to creat	e nages and
0	Course Description	posts	ining the teeninques of wordpress to creat	e pages and
9	Outline Syllabus	posts		CO Mapping
	Unit 1	WordPress		o o manpang
	1	Introduction to WordPress		CO1
	2	Introduction to Blogging		CO1
	3	Intro to WordPress and con	tent management	CO1
	4	Wordpress.org and Wordpre		CO1
	Unit 2	Setting Up WordPress		
	1	Designing a logo		CO2
	2	Banner		CO2
	3	Local Environment Setup.		CO2
	4	Installing WordPress		CO2
5		Admin tour		CO2
	Unit 3	Pages and Posts		
	1	Creating Pages		CO3
	2	Creating Posts		CO3
	3	Forms in Wordpress		CO3
	4	SEO and Metatags		CO4
	Unit 4	Plugins in WordPress		
	1	Portfolio Gallery		CO4
	2	Video gallery		
	3	Other Plugins Downloads.		CO4
	Unit 5	WordPress Themes		CO4,CO5
	1	Downloading and installing	Themes	G0.5
	2	Themes Programming Stand		CO5
	3	Building a Theme- Part1	um ub	CO5
		C		CO6
	4	Building a Theme- Part2		CO6
5 Conclusion		CO6		
	Mode of examination	Jury	Longy \ 250	
	Evaluations	CA 25%	CE(Viva) 25% ETE 50%	
	Text Book/s	Wordpress Website Adam Price (Autho	ress Beginner's Step-by-step Guide on Ho Fast (Without Coding) Paperback – 29 J r) Wordpress: Create an Amazing Website	ul 2015 by

*	SHARDA	
	UNIVERSITY	A+

	Beyond Boundaries NAAC
	Hours! Paperback – Import, 19 May 2013 by Katrina Abiasi (Author) • Build Your Own Wordpress Website: An Ultimate Guide for Small Business Owners Paperback – 28 Jun 2016 by Wordpress Genie (Author)
Other References	 WordPress for Beginners 2020: A Visual Step-by-Step Guide to Mastering WordPress (Webmaster Series) -by Dr. Andy Williams (Author) Format: Kindle Edition, ASIN: B082SYXLDF. WordPress All-in-One For Dummies - by Lisa Sabin-Wilson (Author)— John Wiley & Sons; 2nd edition (31 May 2013) - ISBN- 10: 1118383346, ISBN- 13: 978-1118383346. Professional WordPress: Design and Development - by Brad Williams (Author), David Damstra (Author), Hal Stern (Author)- John Wiley & Sons; 2nd edition (18 January 2013)- ISBN-10: 111844227X, ISBN-13: 978-1118442272.



Sch	nool: SSMFE	Batch 2024-28	i da i i i i	
`		Current Academic Year: 2026-27		
	X and Gaming Design)			
Branch: Mass Communication Semester: 5				
1	Course Code	AVG326		
2	Course Title	3d Lighting & Rendering and Photorealism		
3	Credits	2		
4	Contact Hours (L-T-P)	0-1-2		
5	Course Type	Core Elective		
6	Course Objective	To introduce creative Concepts and technical application of Animatio	n and	
		Compositing and scripting		
8	Course Description	Students will learn the fundamentals of Maya embedded language, cu	stomizing the	
		tools as per need and easing the workflow	1	
9	Outline Syllabus		CO Mapping	
	Unit 1	HDRI		
	1	Image Based Lighting	CO1	
	2	Creating HDRI Maps, and Digitizing HDRI Maps for Virtual Sets	CO2	
	3	Lighting with HDRI Maps	CO2	
	4	Volumetric nodes, Lenses, Shadow, XPasses.	CO1	
Unit 2 Lighting		0 0		
	1	Artificial Lighting,	CO3	
		Natural Lighting,	CO3	
	\mathcal{C}		CO4	
	Unit 3	Workflow		
1 Prod		Production Workflow.	CO5	
	2	Sequence Light Rig.	CO3	
	3	Lighting Types.	CO3	
	Unit 4	Rendering Types		
	1	Maya software render	CO6	
	2	setting and features	CO6	
		Scene Management & optimization	CO4	
Unit 5 Rendering Settings				
1 5 5		CO5		
5 Render settings window		CO4		
	6	Vector rendering, Toon shading & Multi-pass Rendering. CO4		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%		
	Text Book/s	Advanced Maya® Texturing and Lighting Paperback – Import, 19September 2006 by Lee Lanier (Author)		
	Other References • Lighting for Cinematography: A Practical Guide to the Art and Craft of Lighting for the Moving Image Book by David Landau		ndCraft of	

School: SSMFE		Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2026-27
,VFX and Gaming Design)		
Bra	anch: Mass Communication	Semester: 5
1	Course Code	AVG327
2	Course Title	Sound Design Techniques
3	Credits	2
4	Contact Hours (L-T-P)	0-1-2





5	Course Type	Compulsory		
6	Course Objective	Understand the technical aspects of producing and recording sounds.		
		Create Foleys and effects sounds using analog and digital techniques.		
		Understand the workflow used to producing and mastering sounds.		
		Export sound output to various Medias.		
		Establishing an environment Helping to tell a story, Defining mood, Rhythm and		
		style Aiding flow of action		
8	Course Description	Students will learn about "Sound" the one of the important elements		
		film making. They will Understand the technical aspects of producing		
		sounds, Create Foleys and effects sounds using analog and digital tec	•	
9	Outline Syllabus		CO Mapping	
	Unit 1	History		
	1	Fundamental of sound and sound Design	CO1	
	2	Art and Techniques of sound editing	CO1	
	3	Sound equipment and their significance	CO1	
	Unit 2	Recording Techniques		
	1	Recording and Music	CO2	
	2	Fundamentals of Digital Audio	CO2	
	3	Production Techniques	CO2	
Unit 3 Sound Editing Application				
1		Customizing workspace	CO3	
		Extracting audio clips	CO3	
3 Foley sound recording		CO3		
Unit 4 Sound Editing Techniques				
	1	Editing properties of sound	CO5	
	2	Mixing and Effects for sound	CO5	
	3	Managing of sound files	CO5	
	Unit 5	Designing of Sound		
	1 The psychology of sound CO		CO6	
		CO6		
3 Region specific sounds		CO6		
	Evaluations CA 25% CE(Viva) 25% ETE 50%			
	Text Book/s Sound Design: The Expressive Power of Music, Voice and Sound Effectsin Cine		fectsin Cinema	
		by David Sonnenschein - 2002		
		The Sound Effects Bible: How to Create and Record Hollywood StyleSound Effects		
		by RicViers(Oct 1, 2008)		
	Other References	The Animator's Eye: Adding Life to Animation with Timing, Layout,		
		and Sound by Francis Glebas(Sep 24, 2012) Designing Sound by An	dy Farnell(Aug	
		20, 2010)		



Sch	ool: SSMFE	Batch 2024-28	unuuries
	gram: B.Sc. (Animation	Current Academic Year: 2026-27	
	'X and Gaming Design)		
	nch: Mass Communication	n Semester: 5	
1	Course Code	AVG328	
2	Course Title	Multimedia Design	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
5	Course Type	Compulsory	
6	Course Objective	To understand functioning of multimedia eco system To discuss role	e of AV and tools
	3	importance. To understand the keying techniques and format require	
8	Course Description	This course is all about learning multimedia including AVinterpreta	
	•	editing, sound editing, VFX and exporting techniques	•
9	Outline Syllabus		CO Mapping
	Unit 1	Multimedia	
	1	Introduction to multimedia.	CO1
	2	Fundamentals of multimedia.	CO1
	3	Types of Games.	CO1
	4	PC games.	CO1
	5	Mobile games.	CO1
	6	Wordpress.com	CO1
	Unit 2	Audio Video Interpretation	
	1	Introduction to computer graphics.	CO2
	2	Image processing;	CO2
	3	Importance of audio,	CO2
	4	Shooting videos,	CO3
	5	Adding sound to videos,	CO3
	6	Diegetic and non-diegetic sound,	CO3
	7	Live and non-live sound.	CO3
Unit 3 Softwar		Software	
	1	Working with tools	CO4
	2	Audacity or Pro tools	CO4
	3	Adobe Premiere Pro,	CO4
	4	After Effects.	CO4
	5	Editing	CO4
	6	Transitions and effects	CO4
	Unit 4	Chroma Key technique	
	1	Green mat.	CO5
	2	Blue mat.	CO5
	3	Chroma key setup: keying.	CO5
	4	Changing backgrounds.	CO5
	5	Adding special effects.	CO5
	6 Incorporation of audio video with special effects		CO5
	Unit 5	Exporting Video	
	1	Exporting techniques. CO6	
	2	Formats and various formats in exporting.	
	3 Exporting for high resolution and low resolution.		CO6
	4	Exporting for animation, exporting for various social media.	CO6
	Mode of examination	Jury	
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	,)
	Text Book/s	Introduction to Multimedia and Its Applications Paperback	– 1 Dec 2012 by

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	Beyond Boundaries MAAC
	 V. K. Jain (Author) The Ultimate Introduction to DSLR Film Making: Book 1 Kindle Editio by Danny Yann (Author) Make Your Movie, Real Cinema You Can Afford, EVEN 4K and RAW Video! Kindle Edition by Simon Levi (Author) Video Editor Basic Guide Adobe CS5 and superior: Premiere, Media Encoder, Encore, After Effects Kindle Edition by Betina Goetjen (Author)
Other References	 The Green Screen Handbook: Real-World Production Techniques 1st Edition by Jeff Foster (Author) Green screen Made Easy: Keying and Compositing Techniques for Indie Filmmakers 2nd ed. Edition by Jeremy Hanke (Author), Michele Yamazaki (Author) The Technique of Film and Video Editing: History, Theory, and Practice 4th edition by Dancyger, Ken (2006) Paperback Paperback – 1707



Program: B.Sc. (Animation YFX and Gaming Design)	Sch	ool: SSMFE	Batch 2024-28	
Branch: Mass Communication Course Code AVG329	Program: B.Sc. (Animation		Current Academic Year: 2026-27	
Course Title	,VFX and Gaming Design)			
Course Title	Bra	nnch: Mass Communication	Semester: 5	
3 Credits 1 0-0-2 5 Course Type Compulsory To impart knowledge and technical skills to understand the science of Fluid Dynamics and application at various stages		Course Code		
4 Contact Hours (L-T-P) 0-0-2 5 Course Type Compulsory 6 Course Objective To impart knowledge and technical skills to understand the science of Fluid Dynamics and application at various stages 8 Course Description Students will Learn The core physic concept of simulation, advanced Fluidssystem & enable to create 3d effects in Maya CO Mapping 9 Outline Syllabus CO Mapping 1 Characteristics of fluids & Dimensions CO1 2 Analysis of Fluid behavior CO1 3 Measure of Fluid mass and weight, ideal gas law, viscosity CO1 Unit 2 Fluid Pressure CO2 1 Compressibility of fluids CO2 2 Vapor pressure & surface tension. CO2 2 Vapor pressure & surface tension. CO2 4 Measurement of pressure. CO2 4 Measurement of pressure. CO2 1 Buoyancy CO2 2 Flouid Principles CO2 1 Buoyancy CO2 2 Flouid Principles	2	Course Title	Fluid Dynamics & Plugins	
5 Course Type Compulsory 6 Course Objective To impart knowledge and technical skills to understand the science of Fluid Dynamics and application at various stages 8 Course Description Students will Learn The core physic concept of simulation, advanced Fluidssystem & cnable to create 3d effects in Maya CO Mapping 9 Outline Syllabus CO Mapping 1 Characteristics of Fluid Dynamics CO1 2 Analysis of Fluid behavior CO1 3 Measure of Fluid mass and weight, ideal gas law, viscosity CO1 Unit 2 Fluid Pressure CO2 1 Compressibility of fluids CO2 2 Vapor pressure & surface tension. CO2 2 Vapor pressure & surface tension. CO2 4 Measurement of pressure. CO2 4 Measurement of pressure. CO2 4 Measurement of pressure. CO2 1 Buoyancy CO2 2 Floid Principles CO2 1 Buoyancy CO2 2 Floid Principles <	3	Credits	1	
6 Course Objective To impart knowledge and technical skills to understand the science of Fluid Dynamics and application at various stages 8 Course Description Students will Learn The core physic concept of simulation, advanced Fluidssystem & enable to create 3d effects in Maya CO Mapping 9 Outline Syllabus CO Mapping Unit 1 Science of Fluid Dynamics CO1 1 Characteristics of fluids & Dimensions CO1 2 Analysis of Fluid Dynamics CO1 2 Analysis of Fluid behavior CO1 3 Measure of Fluid mass and weight, ideal gas law, viscosity CO1 Unit 2 Fluid Pressure CO2 1 Compressibility of fluids CO2 2 Vapor pressure & surface tension. CO2 3 Pressure at point, standard atmosphere. CO2 4 Measurement of pressure. CO2 1 Buoyancy CO2 2 Pressure at point, standard atmosphere. CO2 1 Buoyancy CO2 2 Floid Principles CO2 1	4	Contact Hours (L-T-P)	0-0-2	
Bynamics and application at various stages	5		Compulsory	
Students will Learn The core physic concept of simulation, advanced Fluidssystem & enable to create 3d effects in Maya Duttine Syllabus	6	Course Objective	To impart knowledge and technical skills to understand the science of	Fluid
enable to create 3d effects in Maya				
Outline Syllabus	8	Course Description		Fluidssystem &
Unit 1			enable to create 3d effects in Maya	_
Characteristics of fluids & Dimensions	9			CO Mapping
2		Unit 1		
Measure of Fluid mass and weight, ideal gas law, viscosity		1		
Unit 2				CO1
1				CO1
2		Unit 2		
3 Pressure at point, standard atmosphere. CO2 4 Measurement of pressure. CO2 Unit 3 Fluid Principles 1 Buoyancy CO2 2 Flotation and stability CO2 3 Archimedes principle CO2 4 Stability, Bernoulli equation & fluid kinematics CO3 Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		1		CO2
4 Measurement of pressure. Unit 3 Fluid Principles 1 Buoyancy CO2 2 Flotation and stability CO2 3 Archimedes principle CO2 4 Stability, Bernoulli equation & fluid kinematics CO3 Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM − Import, 9 September 2010		2		CO2
Unit 3		3	Pressure at point, standard atmosphere.	CO2
Buoyancy		4	Measurement of pressure.	CO2
2 Flotation and stability CO2 3 Archimedes principle CO2 4 Stability, Bernoulli equation & fluid kinematics CO3 Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid Simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom CO6 emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010	*			
3 Archimedes principle CO2 4 Stability, Bernoulli equation & fluid kinematics CO3 Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010	1		Buoyancy	CO2
4 Stability, Bernoulli equation & fluid kinematics CO3 Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		2	Flotation and stability	CO2
Unit 4 Tools 1 Differential analysis of fluid flow CO4 2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation CO4 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form particles CO5 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation CO5 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. CO6 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. CO6 Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		3	Archimedes principle	CO2
1 Differential analysis of fluid flow 2 Tools and software to create fluid simulation 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010	4		Stability, Bernoulli equation & fluid kinematics	CO3
2 Tools and software to create fluid simulation CO4 3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form CO5 particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM − Import, 9 September 2010		Unit 4	Tools	
3 Attributes CO3 Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, 2 Emitters, Grid based particles, Splash particles, Mist and form particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		1	Differential analysis of fluid flow	CO4
Unit 5 Fluid Simulation 1 Introduction to Fluid simulation software, CO4 2 Emitters, Grid based particles, Splash particles, Mist and form particles CO5 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation CO6 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. CO6 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. CO6 Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		2	Tools and software to create fluid simulation	CO4
Introduction to Fluid simulation software, CO4		3	Attributes	CO3
2 Emitters, Grid based particles, Splash particles, Mist and form particles 3 Generation displacement maps & exporting simulation CO5 4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s • Introduction to Maya Fluid Effects DVD-ROM − Import, 9 September 2010		Unit 5	Fluid Simulation	
particles Generation displacement maps & exporting simulation CO5 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation Initial project setup. Particle morphing, Small scale fluid simulation, Large scale fluid co6 simulation Using the fluid simulation scripting. Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Introduction to Maya Fluid Effects DVD-ROM − Import, 9 September 2010		1	Introduction to Fluid simulation software,	CO4
Generation displacement maps & exporting simulation Generation displacement maps & exporting simulation Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation Initial project setup. Particle morphing, Small scale fluid simulation, Large scale fluid co6 simulation Using the fluid simulation scripting. Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		2	Emitters, Grid based particles, Splash particles, Mist and form	CO5
4 Forms of liquids & Morphing fluids CO5 Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010			1	
Unit 6 Scripting for Simulation 1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid simulation Using the fluid simulation scripting. CO6 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. CO6 Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010	3		Generation displacement maps & exporting simulation	CO5
1 Initial project setup. CO6 2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s • Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010			Forms of liquids & Morphing fluids	CO5
2 Particle morphing, Small scale fluid simulation, Large scale fluid CO6 simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. CO6 Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		1 0		
simulation Using the fluid simulation scripting. 3 Batch script, Scripting reference, Working with variables, custom emitter scripting. CA 25% CE(Viva) 25% ETE 50% Text Book/s • Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		1		CO6
Batch script, Scripting reference, Working with variables, custom emitter scripting. CA 25% CE(Viva) 25% ETE 50% Text Book/s • Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		2		CO6
emitter scripting. Evaluations CA 25% CE(Viva) 25% ETE 50% Text Book/s • Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010				20.5
EvaluationsCA 25%CE(Viva) 25%ETE 50%Text Book/sIntroduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010		3		
Text Book/s • Introduction to Maya Fluid Effects DVD-ROM – Import, 9 September 2010				
r				
- J		Text Book/s	 Introduction to Maya Fluid Effects DVD-ROM – Import, 9 S by W. Hollingsworth (Author) 	eptember 2010
Other References • Maya Visual Effects The Innovator's Guide by Eric Keller		Other References	Maya Visual Effects The Innovator's Guide by Eric Keller	



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School: SSMFE		Batch 2024-28			
Pro	gram: B.Sc. (Animation	Current Academic Year: 2	Current Academic Year: 2026-27		
,VF	TX and Gaming Design)				
Bra	anch: Mass Communication	Semester: 5			
1	Course Code	RBL003			
2	Course Title	Research Based Learning-	3		
3	Credits	1			
4	Contact Hours (L-T-P)	0-0-2			
5	Course Type	Co-Requisite/AECC			
6	Course Objective	The objective of this course is to Strengthen the academic		c research ability of the	
		students. Evolve the inquisitiveness of the students towards society and various			
		factors affecting media and society at a large. Enhance the problem solving skills of			
		the students.			
8	Course Description	The course is designed to inculcate the research value and skills among thestudents.			
9	Outline Syllabus			CO Mapping	
	Unit 1	Dissertation/ Project Implementation Stage		CO1, CO2	
	Unit 2	First Review (R1)		CO3, CO4, CO5, CO6	
Unit 3		Second Review (R2)		CO3, CO4, CO5, CO6	
	Unit 4	Review (R3) by internal cor	nmittee	CO3, CO4, CO5, CO6	
	Mode of examination	Jury/Viva/Practical			
	Evaluations	CA 70%	CA (RBL1+RBL 2) 30%	ETE 00	



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	nool: SSMFE	Batch 2024-28			
	ogram: B.Sc. (Animation	Current Academic Year: 2	2026-27		
	X and Gaming Design)				
Bra	anch: Mass Communication	Semester: 5			
1	Course Code	INC001			
2	Course Title	Industry Connect			
3	Credits	2			
4	Contact Hours (L-T-P)	0-2-0			
5	Course Type	Co-Requisite/AECC			
6	Course Objective	The objective of this course	is:		
		1	of the industry environment t	o students	
			nd students with the media an		ation industry
			culties with the latest demand		
			ance the industry-academia in		
		exposure to our faculty and	<u> </u>		
8	Course Description		ide the students and faculty a	platform to	get connected
1			al-time exposure on the daily		
		media and communication is	•		
9	Outline Syllabus				CO Mapping
	Unit 1	Understanding Target Ind	lustry		o o manpang
	1		ganizational Structure, Basic/	Advance	CO1
	-	level Technology used for Production			
	2	Electronic Media, Origin, Organizational Structure, Basic/Advance		CO1	
2		level Technology used for B		C/1 Id vallee	COI
3		Digital Media, Evolution, Organizational Structure, Basic/Advance		CO2	
	3			c/Auvance	CO2
level Technology used for Publish content online Unit 2 Recent Trends in Industry					
	1	Invited lecture from domain experts		CO4	
	2	Group / Panel discussion	experts		CO4
	3	Collaborative learning			CO4
			21 D 1 4		CO4
	Unit 3	Hands on Training for Ski			COT
	1	Print Media: Quark Express			CO5
	2	Video Production any one software i.e. Premier		CO5	
	3	Digital Media, PR tools training		CO5	
	Unit 4	Industry Connect			
	1	Identify the input and output for different processes of target		CO3	
		Industry			
2		Understanding background of field visit industry		CO3	
3		Industry etiquettes skills		CO3	
	Unit 5	Industry Visit Reports			
	1	Pre Field Visit and Post Field Visit preparation		CO6	
2		Field Visit Report preparation process		CO6	
3		Field visit report presentation	on		CO6
	Mode of examination	Practical			
	Evaluations	CA 85%	Industrial Visit Report 10%	ETE 10%	

Note: This is a qualifying Program





Semester 6

Sch	ool: SSMFE	Batch 2024-28			
Programme: B.Sc. Animation,		Current Academic Year: 2026-27			
	X & Gaming Design				
Bra	nch: Mass Communication	Semester: 4			
1	Course Code	AVG341			
2	Course Title	Studio Training			
3	Credits	14			
4	Contact Hours (L-T-P)	0-0-28			
5	Course Type	Core Compulsory			
8	Course Objective Course Description	 The purpose of this subject is to provide practical industry based hands-on experience of being able to create high quality 3D Modelling & 3D Animation projects. Understanding the workflows involved in actual productions pipeline in industry. Knowledge of planning and organizing projects by observation and practical. Learning artistic techniques to create high quality Industry ready product/films. Students will undergo On Job Training (OJT) in lieu of in-house Production. The students will submit a detailed report on their OJT and final report for a period 90 hrs in Animation/VFX/Gaming/Motion Graphics/Graphics along with the Power point Presentation containing the actual learning experience 			
9	Outline Syllabus	Tresentation containing	the detail rearring experies		CO Mapping
Uni	•	Bi-Weekly Report			
		Work in progress report		CO1	
Uni	t 2	Bi-Weekly Report			
		Work in progress report			CO2
Uni	t 3	Bi-Weekly Report			
		Work in progress report		CO3	
Unit 4		Bi-Weekly Report			
		Work in progress report		CO4	
Unit 5		Bi-Weekly Report			
		Work in progress report		CO5,CO6	
	Mode of examination	Jury			
		CA 25% CE(Viva) 25% ETE 50%			
	Evaluations		CE(1114) 2570	B1B 3070	
	Evaluations Text Book/s Other References	NA NA	CE(1114) 2370	E1E 3070	

School: SSMFE		Batch 2024-28	
Pro	gramme: B.Sc. Animation,	Current Academic Year: 2026-27	
VF	X & Gaming Design		
Bra	nch: Mass Communication	Semester: 6	
1	Course Code	AVG342	
2	Course Title	Portfolio – Animation	
3	Credits	14	
4	Contact Hours (L-T-P)	0-0-28	
5	Course Type	Core Compulsory	
6	Course Objective	The purpose of this subject is to provide practical industry based hands-on	

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	UNIVERSITY	A+
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		Beyond B	oundaries NAAC	
		experience of creating high quality 3D modelling and animation projects.		
		Understanding the workflows involved in actual productions pipeline in		
		industry.	• •	
		 Knowledge of planning and organizing projects by observat 	ion and practical.	
		 Learning artistic techniques to create high quality industry r 	eady	
		product/films.	•	
8	Course Description	Students will learn the core concepts of creating High Quality 3D Pr	ojects They will	
		gain the knowledge of planning and organizing projects in a Simula	ted production	
		environment.		
9	Outline Syllabus		CO Mapping	
Uni	t 1	Bi-Weekly Report		
		Work in progress report	CO1	
Uni	t 2	Bi-Weekly Report		
		Work in progress report	CO2	
Uni	t 3	Bi-Weekly Report		
		Work in progress report	CO3	
Uni	t 4	Bi-Weekly Report		
		Work in progress report	CO4	
Uni	t 5	Bi-Weekly Report		
		Work in progress report	CO5,CO6	
	Mode of examination	Jury		
	Evaluations	CA 25% CE(Viva) 25% ETE 50%)	
	Text Book/s The Way of the Storyteller by Ruth Sawyer			
		The Advanced Art of Stop-Motion Animation by Ken A. Priebe		
	Understanding 3-D animation using Maya by John Edgar Park			
Other References The Animation Book: A Complete Guide to Animated Filmmaking-				
		-From Flip-Books to Sound Cartoons to 3-D Animation, Three Rive	ers Press	



			nd Boundaries	
School: SSMFE		Batch 2024-28		
	gramme: B.Sc. Animation,	Current Academic Year: 2026-27		
	X & Gaming Design			
Bra	nch: Mass Communication	Semester: 6		
1	Course Code	AVG343		
2	Course Title	Portfolio – VFX		
3	Credits	14		
4	Contact Hours (L-T-P)	0-0-28		
5	Course Type	Core Compulsory		
6	Course Objective	 The purpose of this subject is to provide practical Indust experience of being able to create complete high quality 	VFX shots.	
		Understanding the workflows involved in actual production. Industry:	tions pipeline in	
		Industry.	wyotion and mustica	
		 Knowledge of planning and organizing projects by obse Learning artistic techniques to create high quality Indus 		
		product/films.	try ready	
8	Course Description	Students will learn the core concepts of creating High Quality V	TFX shots. They will	
	P	gain the knowledge of planning and organizing projects in a Sin		
		production environment.		
9	Outline Syllabus		CO Mapping	
Unit 1		Bi-Weekly Report		
		Work in progress report	CO1	
Uni	it 2	Bi-Weekly Report		
		Work in progress report	CO2	
Uni	it 3	Bi-Weekly Report		
		Work in progress report	CO3	
Uni	it 4	Bi-Weekly Report		
		Work in progress report	CO4	
Unit 5		Bi-Weekly Report		
		Work in progress report	CO5,CO6	
Mode of examination		Jury		
Evaluations		CA 25% CE(Viva) 25% ETE		
Text Book/s Filming the Fantastic, Second Edition: A Guide to Visual Effects Cinematog by Mark Sawicki		ts Cinematography		
	Other References	Industrial Light & Magic: The Art of Innovation by Pamela Glin	ntenkamp	
		1	· · · · · · · · · · · · · · · · · · ·	

	hool: SMFE	Batch 2024-28	
Pr		Sc. Animation, Design	Current Academic Year: 2026-27
Bı	anch: Mass C	communication	Semester: 6
1	Course Code	2	AVG344
2	Course Title		Portfolio – Gaming
3	Credits		14
4	Contact Hou	rs (L-T-P)	0-0-28
5	Course Type	?	Core Compulsory
6	Course	Design and	d develop an original gaming project, demonstrating mastery of game development



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	Objective	1 1	plying creativity at the syntl		
		Manage all project phases, showcasing their ability to plan, organize, and execute a complex			
		gaming project at the application level.			
		 Innovate in game 	e design by creating unique	gameplay mechanics, narrativo	es, and user
		experiences, sho	wcasing creativity at the syn	thesis level.	
8	Course	Through the Gaming Pro	ject course, students will de	monstrate a comprehensive un	derstanding of game
	Descriptio			nics, dynamics, and aesthetics	
	n		tive and engaging gameplay	y features in their capstone pro	oject.
9	Outline Syll	abus			CO Mapping
Ur	nit 1	Bi-Weekly Report			
		Work in progress report			CO1
Un	nit 2	Bi-Weekly Report			
		Work in progress report			CO2
Ur	nit 3	Bi-Weekly Report			
		Work in progress report			CO3
Ur	nit 4	Bi-Weekly Report			
		Work in progress report			CO4
Ur	nit 5	Bi-Weekly Report			
		Work in progress report			CO5,CO6
e	Mode of xamination	Jury			
F	Evaluations	CA 25%	CE(Viva) 25%	ETE 50%	
1	 Augmented Reality with Unity AR Foundation: A Practical Guide to cross-platform AR development with Unity 2020 and later versions, Author: Jonathan Linowes, Publisher: Packt Publishing Ltd, 2021, ISBN- 1838982965, 9781838982966 Unity 2020 Virtual Reality Projects - Third Edition, Author: Jonathan Linowes, Released Jul 		owes Released July		
		*	(s): Packt Publishing, ISBN:		wes, released sury
	Other			Deploy Anywhere -Jonathon	
]	References	Paris Buttfield-Addison (1491944749,ISBN-13: 9		edition (September 4, 2017)	- ISBN-10:



Sch	nool: SSMFE	Batch 2024-28	daries
		Current Academic Year: 2026-27	
,VFX and Gaming Design)		Current Academic Tear. 2020-27	
	anch: Mass Communication	Semester: 6	
1	Course Code	OPE	
2	Course Title	Smartphone Mobile Film Making	
3	Credits	3	
4	Contact Hours (L-T-P)	0-2-2	
5	Course Type	Core Elective	
6	Course Type Course Objective	This course aims at enriching the minds of those students who have a	interest in
U	Course Objective	learning the techniques of filmmaking using a smartphone for a various	
		(Cinema, Television, Advertisement, Film Festivals, etc.) in the broad	
		the Media and Entertainment industry	der context of
8	Course Description	This course provides an introduction to smartphone filmmaking and the	ne use of audio
O	Course Description	integrated with visuals	ic use of audio
9	Outline Syllabus	integrated with visuals	CO Mapping
,	Unit 1	Smartphone Film Making	CO Mapping
	1	Introduction to the basic concepts of smartphone filmmaking	CO1
	2	Why smartphone filmmaking is an important and versatile option	CO1
	3	Film analysis and appreciation	CO1
	Unit 2	Introduction to Smartphone as a tool for Film Making	COI
	1	The Equipment	CO2
	2	Important Apps and Platform	CO2
	3		CO2, CO4
	3	The Audio: Sound Perception and its use for different situation, Importance of sound in films and introduction to sound recording	CO3, CO4
		Microphones and their pickup patterns, Microphone placement and	
		usage, sound perspective and practical application, Recording of	
		sound in noisy locations	
	Unit 3	Basic Smartphone Film Techniques	
	1	Photos: Composition, leading lines and the rule of thirds, Depth of	CO3, CO4
	1	field and selective focus	003, 004
	2	Video: Significance of different camera angles, Selection of	CO3, CO4
	L	viewpoint to heighten the drama, Characteristics and impact of	003, 004
		various dimensions of Shots, White balance color wheel and color	
		temperatures, Gimbals and aesthetics of camera operation	
		Time-lapse cinematography	
	3	Audio: audio editing using apps	CO3, CO4,
		S. G. H.	CO5
	Unit 4	Idea to Screen	
	1	Story Idea and basics of screenwriting	CO2, CO6
	2	Characterization and shooting on location	CO2
	3	Lighting: Shooting indoor/outdoor (understanding the importance of	
		light), Continuity of lighting, How to use ambient light?,	,
		Supplementary lighting for a lit location with ambient light, Mixing	
		a different kind of lights and color temperatures	
	Unit 5	Editing Essentials	
	1	Imaginary line: 30 & 180-degree rule and placement of the	CO4
		camera	
	2	Visualization: Capture a scene in 5 shot	CO4, CO6
	3	Introduction to Video Editing using mobile apps like Kine Master	CO5, CO6
	Evaluations	CA 25% CE(Viva) 25% ETE 50%	
	Text Book/s	The Digital Filmmaking Handbook. Mark Brindle	
		The Digital Limitating Limitation in the Billion	





	Beyond Boundaries
Other References	Smartphone Movie Maker by Stoller Bryan
	The Smartphone Filmmaking Handbook by Neil Philip Sheppard



Sch	ool: SSMFE	Batch 2024-28		
Program: B.Sc. (Animation Current Academic Year: 202		2026-27		
,VF	,VFX and Gaming Design)			
Bra	nch: Mass Communication	Semester: 6		
1	Course Code	RBL004		
2	Course Title	Research Based Learning	– IV	
3	Credits	1		
4	Contact Hours (L-T-P)	0-0-2		
5	Course Type	Co-Requisite/AECC		
6	Course Objective	The objective of this course	is to:	
		Strengthen the academic res	earch ability of the studen	its.
		Evolve the inquisitiveness of the students towards society and various factors		
		affecting media and society at a large.		
		Enhance the problem solvin	g skills of the students.	
8	Course Description	The course is designed to in	culcate the research value	and skills among the students
9	Outline Syllabus			CO Mapping
	Unit 1	Project/ Dissertation Verific	ation and Validation	CO1, CO2, CO3,CO4, CO5
		Stage First Review (R1)		
	Unit 2	Second Review (R1)		CO2, CO3, CO4,CO5,
	Unit 3	Third Review (R3)		CO2, CO3, CO4,CO5,
	Unit 4	Review (R4) by External ex	pert	CO2, CO3, CO4, CO5, CO6
	Unit 5	Submission		CO6
	Mode of examination	Jury/Viva/Practical		
	Evaluations	CA 25%	CE(Viva) 25%	ETE 50%



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School: SSMFE		Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2026-27
	X and Gaming Design)	
	nch: Mass Communication	Semester: 6
1	Course Code	CCU
2	Course Title	Community Connect
3	Credits	2
4	Contact Hours (L-T-P)	0-2-0
5	Course Type	Co-Requisite
6	Course Objective	To let the student engage and connect directly with the community/society. In this
		survey-based course students will get hand-on experience of the real- world situation
		by directly accessing and analyzing the information collected from the people in the
		community under study. The course aims to sensitize the student towards society and
		social issues. This course will also give a proper field exposure to the student, where
		student will not only interact with the community but will analyze the data and try to
		find solutions to the larger issues affecting the community and the country at large.
8	Course Description	This course is design especially for the students to connect with the community and
		understand the problems of the people in the community and get a sense of belonging
		to the community.
9	Theme	Major Sub-themes for research:
		Major developmental issue (Socio-Economic, gender, environmental etc.) Media
		habits/ Media usage/Audience profiling
		Media perceptions
10	Guidelines for Faculty	It will be a group assignment (4 to 5 students), the student will work together as a
	Members	team, they have to survey at least 250 respondent (per team), and the faculty guide
		will guide the students and approve the project title and help the student in preparing
		the questionnaire and final report (the faculty member will collect all the
		questionnaires of survey and final report and submit to CCC coordinator within
		stipulated time).
		The questionnaire should be well design and it should carry at least 20 questions
		(Including demographic questions).
		The topic of the research should be related to social, economic or environmental
		issues concerning the common man.
		The report should contain 2,500 to 3,000 words and relevant charts, tables and
		photographs.
		The student should submit the report to CCC-Coordinator signed by the faculty guide
		in the assigned time frame.
		The students have to send the hard copy of the Report and PPT to CCC coordinator
4.4	D. L. CCCC	and then only they will be allowed for External Exam.
11	Role of CCC-	The CCC Coordinator will supervise the whole process and assign students to faculty
10	Coordinator	members.
12	Layout of the Report	Abstract(250 words)
		Front Page (sample design will be provided by Community Connect
		Coordinator/Mentor)
		Certificate of originality duly signed by the faculty supervisor Acknowledgement
		Content Page Abstract Introduction
		Objective of the report Methodology
		Results, finding, conclusion Recommendation/plan of action References
		Appendices Note: Passage hyperstate about the season mirrory data
12	Coddeline For Do	Note: Research report should base on primary data.
13	Guideline for Report	Title Page: The following elements must be included:
	Writing	Title of the article;

*	SHARDA	100
	UNIVERSITY	A
	Beyond Boundaries	NA.

	T	Beyond Boundaries
		Name(s) and initial(s) of author(s), preferably with first names spelled out; Affiliation(s) of author(s); Name of the faculty guide and Co-guide Abstract: Each article is to be preceded by a succinct abstract, of up to 250 words,
		that highlights the objectives, methods, results, and conclusions of the paper. Text: Manuscripts should be submitted in Word.
		Use a normal, plain font (e.g., 12-point Times Roman) for text. Use italics for emphasis.
		Use the automatic page numbering function to number the pages.
		Save your file in docx format (Word 2007 or higher) or doc format (older Word versions)
		Reference list:
		The list of references should only include works that are cited in the text and that
		have been published or accepted for publication. The entries in the list should be in alphabetical order. Journal article
		Hamburger, C.: Quasimonotonicity, regularity and duality for nonlinear systems of
		partial differential equations. Ann. Mat. Pura Appl. 169, 321–354 (1995) Article by DOI
		Sajti, C.L., Georgio, S., Khodorkovsky, V., Marine, W.: New nanohybrid materials
		for biophotonics. Appl. Phys. A (2007). doi:10.1007/s00339-007-4137-z Book
		Geddes, K.O., Czapor, S.R., Labahn, G.: Algorithms for Computer Algebra. Kluwer,
		Boston (1992)
		Book chapter
		Broy, M.: Software engineering — from auxiliary to key technologies. In: Broy, M., Denert, E. (eds.) Software Pioneers, pp. 10–13. Springer, Heidelberg (2002)
		Online document Cartwright, J.: Big stars have weather too. IOP Publishing PhysicsWeb.
		http://physicsweb.org/articles/news/11/6/16/1 (2007). Accessed 26 June 2007
		Always use the standard abbreviation of a journal's name according to the ISSN List
		of Title Word Abbreviations, see
14		www.issn.org/2-22661-LTWA-online.php
		For authors using End Note, Springer provides an output style that supports the
		formatting of in-text citations and reference list. End Note style (zip, 2 kB)
15	Format:	The report should be Spiral/ hardbound
	1 ormuv	The Design of the Cover page to report will be given by the Coordinator- CCC Cover
		page
		Acknowledgement Content
		Project report Appendices Fort Times New Roman, Headings 16, subhead 14, hedy toyt 12, Justified toyt, Line
		Font Times New Roman, Headings 16, subhead 14, body text 12. Justified text. Line spacing 1.5. Margins should be 3 cm at binding side, 2 cm top, bottom and
		Remaining side.
16	Important Dates:	Students needs to submit the hard copy of the report, duly signed and approved by
	_	the faculty supervisor by 20th April, 2020.
		A trip to village will be organized by the University for the students in the 1st week
		of May. It will be mandatory for all the students.
		The final jury examinations will be held as per the date sheet, announced by the Dy. COE of the school.
17	ETE	The students will be evaluated by panel of faculty members on the basis of their
1,		presentation on date announced by the Dy. COE of the School.
18	Method of Evaluation	Interpretative evaluation by Internal / external expert(s) AUDIT COURSE



Sch	nool: SSMFE	Batch 2024-28	
Program: B.Sc. (Animation		Current Academic Year: 2026-27	
,VFX and Gaming Design)			
Bra	anch: Mass Communication	Semester: 7	
1	Course Code	BCJ412	
2	Course Title	Qualitative Research Methods	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
5	Course Type	Compulsory	
6	Course Objective	To impart in-depth knowledge of qualitative research.	
		To provide good understanding of methods for qualitative research.	
		To develop critical and analytical thinking on ethical issues in qualitat	
8	Course Description	This course is an introduction to qualitative research methods. The co	urse will give
_		an understanding of various methods of qualitative research	COM
9	Outline Syllabus	Later land on the County of the County of Mathed	CO Mapping
	Unit 1	Introduction to Qualitative Research Methods	CO1
	1	Understanding qualitative research	CO1
	2	Historical development of qualitative research	CO1
	3	Issues in Qualitative Research—Subjectivity, Reflexivity, Power,	CO1
		Validity and Triangulation	
	Unit 2	Applications of Qualitative Methods to Social Research	
	1	Theoretical and applied research	CO2
2		Ethnographic and Phenomenological Approaches	CO2
3		Combining qualitative and quantitative methods	CO2
Unit 3		Qualitative Research Methods - I	
	1	Introduction, Techniques and Applications of Focus Group	CO3
		Discussions	
	2	Report writing on Conduction, Execution and Conclusions obtained	CO3
		by Focus Group Discussions	
	3	Implementation and Evaluation Challenges of Focus Group	CO3
		Discussions	
	Unit 4	Qualitative Research Methods - II	
	1	Introduction, Techniques and Applications of Interview method	CO4
	2	Report writing on Conduction, Execution and Conclusions obtained	CO4
		by interview	
	3	Implementation and Evaluation Challenges of interview	CO4
Unit 5		Qualitative Research Methods - III	
1		Introduction, Techniques and Applications of observation	CO5
2		Report writing on Conduction, Execution and Conclusions obtained	CO5
	by observation		
	3 Implementation and Evaluation Challenges of observation C		CO6
Evaluations		MTE 15% CA10% ETE 75%	
	Text Book/s	Mass Media Research: An Introduction by Roger D. Wimmer W., Qualitative inquiry and research design, 2rd edition. Sage	
		2013.	i donounons.





Other References

- Media and communication research methods by Arthur Berger
- Mass Communication Research Methods by <u>Anders Hansen</u>
- Berg, B. L. & Lune, H. Qualitative Research Methods for the Social Sciences, 8th edition, Boston: Pearson, Allyn & Bacon. 2012
- Seidman, I. E. Interviewing as Qualitative Research, Teachers College Press, 4rd edition.
- Miles, M.B., Huberman, A.M. & Saldana, J. 2014. Qualitative data analysis: A methods sourcebook Third edition. Thousand Oaks, CA: Sage.



Sch	ool: SSMFE	Batch 2024-28			
Pro	gram: B.Sc. (Animation	Current Academic Year: 2026-27			
	,VFX and Gaming Design)				
Bra	nch: Mass Communication	Semester: 7			
1	Course Code	BCJ413			
2	Course Title	Quantitative Research Methods			
3	Credits	3			
4	Contact Hours (L-T-P)	3-0-0			
5	Course Type	Compulsory			
6	Course Objective	To impart in-depth knowledge of quantitative research.			
		To provide good understanding of methods for quantitative research.			
		To develop critical and analytical thinking on ethical issues in quantit			
8	Course Description	The course is designed primarily for the students to anticipate future a	pplications of		
9	Onding Callabas	quantitative methods in media and communication research.	CO Mannina		
9	Outline Syllabus Unit 1	Introduction to Quantitative Research Methods - I	CO Mapping		
	1	Understanding nature of quantitative research	CO1		
	2	Historical development of quantitative research	CO1		
	3				
		Quantitative research in Media & Communication	CO1		
	Unit 2	Introduction to Qualitative Research Methods - II	COA		
	1	Research Question and Scientific Approach to Social Science	CO2		
	2	Research Design; Causality vs. Correlation	CO2		
	3	Reliability and Validity.	CO2		
	Unit 3	Quantitative Research Methods			
	1	Introduction to various quantitative research methods	CO3		
	2	Survey method	CO3		
	3	Developing questionnaire and schedule for survey	CO3		
Unit 4 Basic data analysis - I					
	1	Statistical significance	CO4		
	2	Measurement, validity, reliability	CO4		
	3	Cross-tabulation and Correlation.	CO4		
Unit 5 Basic data analysis - I					
	1	Simple regression, Multiple regression.	CO5		
	2	Hypothesis testing, ANOVA, The One-Way ANOVA's Null and	CO6		
		Alternative Hypotheses			
	3	Factor Analysis	CO5		
	Evaluations	CA 15% MTE 10% ETE 75%			
	Text Book/s	Mass Media Research: An Introduction by Roger D. Wimmer			
	Other References	Media and communication research methods by Arthur Berge	er		
		Mass Communication Research Methods by Anders Hansen			

School: SSMFE		Batch 2024-28
Program: B.Sc. (Animation		Current Academic Year: 2026-27
,VFX and Gaming Design)		
Bra	nch: Mass Communication	Semester: 7
1	Course Code	BCJ414
2	Course Title	Communication Research Methods & Tools
3	Credits	3



4	Contact Hours (L-T-P)	3-0-0				
5	Course Type	Compulsory				
6	Course Objective	To impart in-depth knowledge of nature of research methods used in communication research. To provide theoretical knowledge of Communication Research Methods and Tools. To develop critical and analytical thinking on of Communication Research Methods and Tools.				
8	Course Description	The course is designed primarily for the students to get an in-depth kn communication research methods and tools	lowledge of			
9	Outline Syllabus	CO Mapping				
9	Unit 1	Introduction to Research Methods	CO Mapping			
	1	Research Method: Nature and Concept	CO1			
	2	Communication Research Approaches	CO1			
3 Research Tools: Nature and Concept						
	Unit 2	Descriptive Research Methods	CO1			
	1	Longitudinal, Cross Sectional	CO2			
	2	Census and Survey	CO2			
	3	Panel Studies, Trend Studies, Time series Studies	CO2			
	Unit 3	Descriptive Research Tools				
	1	Schedule, Questionnaire	CO3			
	2	Interview and Observation	CO3			
	3	Pre-testing of Questionnaire, Pilot Study	CO3			
	Unit 4	Measurement Scales and Distributions				
	1	Levels of Measurement NOIR	CO4			
	2	Likert Scale: Nature and Background	CO4			
	3	Attitude Scales, Thurston Scales, Guttmann Scale, Ranking Scales	CO4			
	Unit 5	Sampling Techniques				
	1	Population, Sample, Sampling Frame	CO5			
	2	Types of Sampling, Sampling Matrix	CO5			
	3	Sampling Problems, Bias and Errors	CO6			
	Evaluations	CA 15% MTE 10% ETE 75%				
	Text Book/s	Mass Media Research: An Introduction by Roger D. Wimmer				
	Other References	Media and communication research methods by Arthur Berge	r			
		Mass Communication Research Methods by <u>Anders Hansen</u>				

Sch	ool: SSMFE	Batch 2024-28		
Pro	gram: B.Sc. (Animation	Current Academic Year: 2026-27		
,VF	X and Gaming Design)			
Bra	nch: Mass Communication	Semester: 7		
1	Course Code	BCJ415		
2	Course Title	Statistics for Research		
3	Credits	3		
4	Contact Hours (L-T-P)	2-1-0		
5	Course Type	Compulsory		
6	Course Objective	To impart basic knowledge of statistics for social science research.		
		To develop critical and analytical thinking on statistics required for social sciences		
		research.		
7	Course Outcomes	After completing the course, the student will be able to:		
		CO1 Develop an understanding of the concept of Statistics		
		CO2 Define descriptive statistics		





		CO3 Acquaint with SPSS				
		CO4	7 6			
		CO5	Analyze various descriptive stats through SPSS			
		CO6				&
			communication research			
8	Course Description		arse is designed primarily for the students to develop an unders	tandi	ng of th	ne
		concept	of statistics in media and communication research			
9	Outline Syllabus	T		CO	Mapp	ing
	Unit 1	Introdu				
	1		rview of Statistics: Meaning, Definition and Characteristics		CO1	
	2	- 1	of Variables (Continuous and Discrete) and Levels of		CO1	
			ement (NOIR)			
	3	Importa	nce of Statistics in Media Research (With reference to		CO1	
			analysis, Code Book Preparation and Coding)			
	Unit 2	Descrip	otive Statistics			
	1	Statistic	cal Series: Importance and Limitations		CO2	
	2	Measur	es of Central Tendency: Arithmetic Mean, Median, Mode		CO2	,
	3	Measur	es of Variability		CO2	,
	Unit 3	Introdu	action to SPSS			,
	1	An Ove	rview and Major features of SPSS		CO3	
	2	Basic F	eatures of SPSS: Menu and Options		CO3	
	3	Data Er	ntry, Data Editing and Data Deletion in SPSS		CO3	,
	Unit 4	Descrip	otive Statistics through SPSS			,
	1	Calculation of Frequency analysis			CO4	
	2	Graphical Representation of Data			CO4	
	3	Calculation of Mean, Median and Mode			CO4	
	Unit 5	Quantitative Analysis				
	1	Reliability and Consistency Analysis: Uses and Interpretation			CO5	
	2	Normality Analysis: Uses and Interpretation, T-Test: Uses and			CO5	-
		Interpre	etation			
	3	Ethical	consideration for using statistics in media and		CO6	
		commu	nication research			
	Mode of Examination	Theory				
	Evaluations	CA 15%	6 MTE 10% ETE 75%			
	Text Book/s	•	Mass Media Research: An Introduction by Roger D. Wimmer			
	Other References	•	Media and communication research methods by Arthur Berge	r		
		•	Mass Communication Research Methods by Anders Hansen			
		•	Mass Communication Research Methods by Anders Hansen			



School: SSMFE Batch 2024-28 Program: B.Sc. (Animation ,VFX and Gaming Design) Branch: Mass Communication Semester: 7 1 Course Code BCJ416 2 Course Title Qualitative Research Lab 3 Credits 2 4 Contact Hours (L-T-P) 0-1-2 5 Course Type Compulsory				
,VFX and Gaming Design) Branch: Mass Communication Semester: 7 1 Course Code BCJ416 2 Course Title Qualitative Research Lab 3 Credits 2 4 Contact Hours (L-T-P) 0-1-2				
Branch: Mass Communication Semester: 7 1 Course Code BCJ416 2 Course Title Qualitative Research Lab 3 Credits 2 4 Contact Hours (L-T-P) 0-1-2				
1Course CodeBCJ4162Course TitleQualitative Research Lab3Credits24Contact Hours (L-T-P)0-1-2				
2Course TitleQualitative Research Lab3Credits24Contact Hours (L-T-P)0-1-2				
3 Credits 2 4 Contact Hours (L-T-P) 0-1-2				
4 Contact Hours (L-T-P) 0-1-2				
\ /				
6 Course Objective To impart in-depth knowledge of qualitative research.				
To provide good understanding of methods for qualitative research.				
To develop critical and analytical thinking on ethical issues in qualitative research	1.			
8 Course Description This course is an introduction to qualitative research methods. The course will g	/e			
an understanding of analysis of various methods of qualitative research				
9 Outline Syllabus CO Map	oing			
Unit 1 Understanding Qualitative Research Methods				
1 Understanding qualitative research CO1				
2 Identifying Subjectivity, Reflexivity and Power CO1				
3 Understanding Validity and Triangulation CO1				
Unit 2 Identifying Qualitative Methods				
1 Understanding theoretical and applied research CO2				
2 Identifying Ethnographic and Phenomenological Approaches CO2	-			
3 Exercise on Combining qualitative and quantitative methods CO2				
Unit 3 Application on Qualitative Research Methods				
1 Exercise on Focus Group Discussions CO3				
2 Exercise on Interview method CO3				
3 Exercise on observation CO3				
Unit 4 Data Analysis and Software's for Qualitative Research Methods				
1 Different techniques of qualitative data analysis CO4				
2 Software's used for content analysis, transcription, discourse CO4				
analysis, coding etc.				
3 Software's used for qualitative analysis – Nvivo, ATLAS etc. CO4	-			
Unit 5 Reporting and Writing Qualitative Research Methods				
1 Reporting and compiling data in qualitative research CO5				
2 Writing qualitative research report CO5				
3 Ethical consideration in qualitative research CO6				
Evaluations IA 25% CE (Viva) 25% ETE 50%				
Text Book/s • Mass Media Research: An Introduction by Roger D. Wimmer				
Other References • Media and communication research methods by Arthur Berger				
Mass Communication Research Methods by <u>Anders Hansen</u>				
School: SSMFE Batch 2024-28				
Program: B.Sc. (Animation Current Academic Year: 2027-28				
,VFX and Gaming Design)				
Branch: Mass Communication Semester: 7				
1 Course Code BCJ417				
2 Course Title Quantitative Research Lab				
3 Credits 2				
4 Contact Hours (L-T-P) 0-1-2				



5	Course Type	Compulsory					
6	Course Objective	To understand the process of content analysis method.					
		To understand tools and techniques of content analysis method.					
		To learn the essence of analyzing textual, audio and video contents.					
		To provide theoretical knowledge and applied know how of Content Analysis					
		method.					
		To orient students in depth towards the concepts Content Analysis	is method.				
8	Course Description	The course is designed primarily for the students to anticipate future	applications of				
		content analysis in media and communication research					
9	Outline Syllabus		CO Mapping				
	Unit 1	Quantitative Research Methods					
	1	Longitudinal, Cross-Sectional & trend studies	CO1				
	2	Experimental and Quasi-experimental studies	CO1				
	3	Constructing tools for quantitative studies	CO1				
Unit 2 Sampling in Quantitative Studies							
	1	Types of sampling	CO2				
	2	Techniques of sampling for quantitative studies CC					
	3	Exercise on sampling	CO2				
	Unit 3	Content Analysis					
	1	Qualitative and Quantitative Content Analysis	CO3				
	2	Coding, Data Sheet Tabulation, Graphical presentation of data	CO3				
	3	Interpretation and Report Writing	CO3				
	Unit 4	Survey					
	1	Understanding survey methods	CO4				
2		Conducting survey	CO4				
3 Interpretation and Report Writing			CO4				
	Unit 5	Case Study and Ethical consideration in Quantitative studies					
	1	Understanding case study	CO5				
	2	Conducting case study, data analysis and writing	CO5				
	3	Ethical consideration of Qualitative studies	CO6				
	Mode of Examination	Theory					
	Evaluations	CA 25% CE(Viva) 25% ETE 50%					
	Text Book/s	Mass Media Research: An Introduction by Roger D. Wimme	er				
	Other References	Media and communication research methods by Arthur Berg					
		Mass Communication Research Methods by <u>Anders Hanser</u>	<u>1</u>				



	beyond boundaries						
Sch	ool: SSMFE	Batch 2024-28					
Pro	gram: B.Sc. (Animation	Current Academic Year	: 2027-28				
,VF	X and Gaming Design)						
Bra	nnch: Mass Communication	Semester: 7					
1	Course Code	BCJ418					
2	Course Title	Project on constructing	tools for Media & Co	mmunication Research			
3	Credits	3					
4	Contact Hours (L-T-P)	0-2-2					
5	Course Type	Compulsory					
6	Course Objective	To develop research skills	3				
		To develop various tools f	for different research m	nethods.			
8	Course Description	The course is aimed to enl	hance the practical skil	ls of the students and will help the			
		students to understand how	w to construct tools for	various types of research.			
9	Outline Syllabus			CO Mapping			
Unit 1-5		Portfolio on different res	search tools	CO1, CO2, CO3, CO4, CO5,			
				CO6			
	Evaluations	CA 25%	CE(Viva) 25%	ETE 50%			
	Text Book/s	 Mass Media Rese 	arch: An Introduction	by Roger D. Wimmer			
	Other References	Media and commi	unication research met	hods by Arthur Berger			
		Mass Communica	ntion Research Method	s by Anders Hansen			
_							



Sch	nool: SSMFE	Batch 2024-28	daries			
	ogram: B.Sc. (Animation	Current Academic Year: 2027-28				
	X and Gaming Design)					
	anch: Mass Communication	Semester: 7				
1	Course Code	OPE				
2	Course Title	Anchoring for Different Media				
3	Credits	4				
4	Contact Hours (L-T-P)	0-3-2				
5	Course Type	Co-Requisite				
6	Course Objective	The objective of this course is to:				
	Familiarize the students with different aspects of anchoring & news					
		To develop an understanding how to handle different situation during	Live News			
	Presentation					
To make the students understand the roles and responsibility and do's and d						
7	Course Outcomes	news reader/presenter After completing the course, the student will be able to:				
8			antare This			
o	Course Description This course is designed to produce professional newsreaders and presenters. The course will help the student to face the camera and understand the responsibility.					
		course will help the student to face the camera and understand the responsibility, d and don'ts for the newsreader/presenter.				
9 Outline Syllabus			CO Mapping			
Uni		Introduction to Anchoring & News Presentation				
		Practical Anchoring and writing techniques for electronic media	CO1			
		and events.	601			
Uni	:4.2					
Uni	n 2	Technical and Practical techniques for News presentation- Script				
		Writing- Researching- writing content				
		Performance: Different aspects of understanding how to handle	CO2			
		different situation during Live News Bulletin.				
Unit 3		Voice Analysis and Improvement				
		Importance of voice improvement	CO3			
Un	ait 4	Clarity in Hindi pronunciation, grammar and how to get rid of	CO4			
		regional touch in language along with practice sessions				
			CO4			
		Clarity in English pronunciation, English grammar and how to get	C04			
		rid of regional touch in language along with practice sessions.				
Uni	it 5	Facing Camera and Writing Anchor Links				
		Understanding of camera etiquettes, camera microphone, peace to	CO5			
		camera, Anchoring and writing skills required for digital media-				
		Writing for Anchor Links & Headlines	CO6			
	Evaluations	CA 25% CE(Viva) 25% ETE 50%				
	Text Book/s	• Radio Jockeying And News Anchoring Hardcover – 2009 by	Aruna			
	Teat Book/s	Radio Jockeying And News Anchoring Hardcover – 2009 by Zachariah	ATUIIA			
		The ABC of News Anchoring: A Guide for Aspiring Anchors	Kindle Edition			
		by Richa Jain Kalra	Tanidic Edition			
		oj mena sam mara				



Semester 8

Sch	nool: SSMFE	Batch 2024-28				
	ogram: B.Sc. (Animation	Current Academic Year: 2027-28				
	TX and Gaming Design)					
Bra	Branch: Mass Communication Semester: 8					
1	Course Code	BCJ419				
2	Course Title	Ethical Perspective of Media & Communication Research				
3	Credits	3				
4	Contact Hours (L-T-P)	3-0-0				
5	Course Type	Compulsory				
6	Course Objective	Guide and mentor students in developing, completing, writing, and presenting a valid				
		and ethical research report.				
		Provide students with the fundamental knowledge of basics of philosophy of science				
		and ethics, research integrity, publication ethics.				
		Hands-on sessions are designed to identify research misconduct and predatory				
0	publications.					
8	Course Description	The course is designed to inculcate the ethical perspective of media and	na			
9	Outline Syllabus	communication research among students	CO Mapping			
9	Unit 1	Philosophy and Research	CO Mapping			
	1	Introduction to philosophy	CO1			
	2	Ethics: definition, moral philosophy	CO1			
	3	2 2 7				
	Unit 2	Scientific Conduct	CO1			
	1	Ethics with respect to science and research	CO2			
	$\frac{1}{2}$	Misconduct: Falsification, Fabrication & Plagiarism (FFP)	CO2			
	3	Selective reporting and misrepresentation of data	CO2			
	Unit 3	Publication Ethics	CO2			
	1	Introduction, definition and importance of publication ethics	CO3			
	2	Conflicts of interest	CO3			
	3	Predatory Journals	CO3			
	Unit 4	Open Access Publication	603			
	1	Open access publication & initiatives	CO4			
	2	Software tools to identify predatory journals	CO4			
	3	Online resources to check publisher copyright & Self-archiving	CO4			
	3	policies				
	Unit 5	Publication Misconducts				
	1	Subject specific ethical issues	CO6			
	2	Case studies	CO5			
	3	Complaints and appeals	CO5			
	Mode of Examination	Theory				
	Evaluations	CA 15% MTE 10% ETE 75%	L			
	Text Book/s	Bird, A. (2006). Philosophy of Science. Routledge				
	Other References	Indian National Science Academy (INSA), Ethics in Science Research & Governance (2019)	Education,			



responsible research and scholarship; produce a paper using APA documentation and manuscript form polished enough to be publishable and to become familiar with other formal (APA, Chicago style) documentation and manuscript styles; examine some of the best past and current writing by scholars; review the mechanics of writing and hone editorial and proof-reading skills; develop evaluative strategies and vocabulary to best serve other writers in a workshop setting This course is designed to familiarize students with the basic methods and techniqu of research writing. The course will focus on such issues as developing a thesis statement, writing a prospectus, finding source material (books, articles, internet resources, etc.), generating an argument, writing and revising a rough draft, and AI documentation of sources Poutline Syllabus Unit 1 Research Writing Skills - I Planning and Preparation CO1 2 Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers CO2 The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers CO2 Linguistic aspects of sample research papers	New York and Gaming Design Branch: Mass Communication Semester: 8	Sch	School: SSMFE Batch 2024-28			
Branch: Mass Communication Semester: 8	Semester: 8 Course Code BCJ420	Pro	gram: B.Sc. (Animation	Current Academic Year: 2027-28		
Course Code BCJ420	Course Code BCJ420	,VF	X and Gaming Design)			
Course Title	Course Title Research Writing Techniques 1	Bra	nch: Mass Communication			
3 Credits 1 4 Contact Hours (L-T-P) 0-0-2	Credits 1 Contact Hours (L-T-P) 0-0-2					
Course Type	Course Type Compulsory			Research Writing Techniques		
Course Type	Course Type Compulsory	3	Credits			
Students to Become familiar with the process of organizing and drafting a report that poses a significant problem and offers a convincing solution; learn how to identify, track down, and use a wide variety of sources in the service of responsible research and scholarship; produce a paper using APA documentation and manuscript form polished enough to be publishable and to become familiar with other formal (APA, Chicago style) documentation and manuscript styles; examine some of the best past and current writing by scholars; review the mechanics of writing and hone editorial and proof-reading skills; develop evaluative strategies and vocabulary to best serve other writers in a workshop setting This course is designed to familiarize students with the basic methods and technique of research writing. The course will focus on such issues as developing a thesis statement, writing a prospectus, finding source material (books, articles, internet resources, etc.), generating an argument, writing and revising a rough draft, and Al documentation of sources Outline Syllabus	Students to Become familiar with the process of organizing and drafting a report that poses a significant problem and offers a convincing solution; learn how to identify, track down, and use a wide variety of sources in the service of responsible research and scholarship; produce a paper using APA documentation and manuscript form polished enough to be publishable and to become familiar with other formal (APA, Chicago style) documentation and manuscript styles; examine some of the best past and current writing by scholars; review the mechanics of writing and hone editorial and proof-reading skills; develop evaluative strategies and vocabulary to best serve other writers in a workshop setting 8 Course Description This course is designed to familiarize students with the basic methods and techniqu of research writing. The course will focus on such issues as developing a thesis statement, writing a prospectus, finding source material (books, articles, internet resources, etc.), generating an argument, writing and revising a rough draft, and AP documentation of sources 9 Outline Syllabus CO Mappi Unit 1 Research Writing Skills - I 1 Planning and Preparation CO1 2 Language of Research CO1 3 Drafting, Proof-reading, Editing and Evaluation of Research papers CO1 Unit 2 Analyzing Research Papers 1 The rhetorical patterning of a passage; CO2	4	` /	0-0-2		
Become familiar with the process of organizing and drafting a report that poses a significant problem and offers a convincing solution; learn how to identify, track down, and use a wide variety of sources in the service of responsible research and scholarship; produce a paper using APA documentation and manuscript form polished enough to be publishable and to become familiar with other formal (APA, Chicago style) documentation and manuscript styles; examine some of the best past and current writing by scholars; review the mechanics of writing and hone editorial and proof-reading skills; develop evaluative strategies and vocabulary to best serve other writers in a workshop setting 8 Course Description This course is designed to familiarize students with the basic methods and technique of research writing. The course will focus on such issues as developing a thesis statement, writing a prospectus, finding source material (books, articles, internet resources, etc.), generating an argument, writing and revising a rough draft, and Aldocumentation of sources 9 Outline Syllabus CO Mappi Unit 1 Research Writing Skills - I 1 Planning and Preparation CO1 2 Language of Research 3 Drafting, Proof-reading, Editing and Evaluation of Research papers 1 The rhetorical patterning of a passage; CO2 The introductory and closing paragraphs of samples of research papers 3 Linguistic aspects of sample research papers CO2	Become familiar with the process of organizing and drafting a report that poses a significant problem and offers a convincing solution; learn how to identify, track down, and use a wide variety of sources in the service of responsible research and scholarship; produce a paper using APA documentation and manuscript form polished enough to be publishable and to become familiar with other formal (APA, Chicago style) documentation and manuscript styles; examine some of the best past and current writing by scholars; review the mechanics of writing and hone editorial and proof-reading skills; develop evaluative strategies and vocabulary to best serve other writers in a workshop setting 8 Course Description This course is designed to familiarize students with the basic methods and technique of research writing. The course will focus on such issues as developing a thesis statement, writing a prospectus, finding source material (books, articles, internet resources, etc.), generating an argument, writing and revising a rough draft, and AP documentation of sources 9 Outline Syllabus CO Mappi Unit 1 Research Writing Skills - I Planning and Preparation CO1 2 Language of Research 3 Drafting, Proof-reading, Editing and Evaluation of Research papers CO1 Unit 2 Analyzing Research Papers 1 The rhetorical patterning of a passage; CO2					
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papers 3 Linguistic aspects of sample research papers CO2		9	Unit 1 1 2 3	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers	CO1 CO1	
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Unit 4 Report Writing - II	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II	CO1 CO1 CO1 CO2 CO2 CO2 CO3	
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Unit 4Report Writing - II1Research DatabaseCO42Writing abstract, Introduction, literature reviewCO43Writing conclusion & ResultsCO4Unit 5Report Writing - III	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 3	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II Research Database Writing abstract, Introduction, literature review Writing conclusion & Results Report Writing - III	CO1 CO1 CO1 CO2 CO2 CO2 CO3 CO3 CO3 CO4 CO4 CO4 CO4	
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Unit 4 Report Writing - II	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II	CO1 CO1 CO1 CO2 CO2 CO2 CO3	
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Unit 4Report Writing - II1Research DatabaseCO42Writing abstract, Introduction, literature reviewCO4	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO3	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II Research Database Writing abstract, Introduction, literature review	CO1 CO1 CO1 CO2 CO2 CO2 CO3 CO3 CO3	
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Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 3	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II Research Database Writing abstract, Introduction, literature review Writing conclusion & Results Report Writing - III	CO1 CO1 CO2 CO2 CO2 CO3 CO3 CO3 CO4 CO4 CO4 CO4	
Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, CO3 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Unit 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 3	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II Research Database Writing abstract, Introduction, literature review Writing conclusion & Results Report Writing - III	CO1 CO1 CO1 CO2 CO2 CO2 CO3 CO3 CO3 CO4 CO4 CO4 CO4	
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Unit 4Report Writing - II1Research DatabaseCO42Writing abstract, Introduction, literature reviewCO43Writing conclusion & ResultsCO4Unit 5Report Writing - III1Skills of writing the ResultsCO52Discussion and skills are needed when writing the ConclusionsCO6	1 Meaning and Objective of Research Report, Report the findings, Chapterisation, 2 Types of Research Report, 3 Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard 4 Report Writing - II 1 Research Database CO4 2 Writing abstract, Introduction, literature review CO4 3 Writing conclusion & Results CO4 Unit 5 Report Writing - III 1 Skills of writing the Results CO5 2 Discussion and skills are needed when writing the Conclusions CO6	9	Unit 1 1 2 3 Unit 2 1 2 3 Unit 3 1 2 3 Unit 4 1 2 3 Unit 4 1 2 3 Unit 5 1 2	Research Writing Skills - I Planning and Preparation Language of Research Drafting, Proof-reading, Editing and Evaluation of Research papers Analyzing Research Papers The rhetorical patterning of a passage; The introductory and closing paragraphs of samples of research papers Linguistic aspects of sample research papers Report Writing - I Meaning and Objective of Research Report, Report the findings, Chapterisation, Types of Research Report, Quotation, Footnotes, Endnotes, Referencing Style: APA, MLA Chicago, Harvard Report Writing - II Research Database Writing abstract, Introduction, literature review Writing conclusion & Results Report Writing - III Skills of writing the Results Discussion and skills are needed when writing the Conclusions	CO1 CO1 CO1 CO2 CO2 CO2 CO3 CO3 CO3 CO4 CO4 CO4 CO4 CO5	
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Mode of examination	Jury		
Evaluations	CA 25%	CE(Viva) 25%	ETE 50%
Text Book/s	Abdul Rahim, F. New Age Internat	Thesis Writing: A Manual for I ional, 2005	Researchers. New Delhi:
Other References	Age International Barker, Nancy an	esearch Methodology: Methods Ltd, 2004. d Nancy Hulig. A Research Gu and American Literature. New	ride for Under Graduate



School: SSMFE Batch 2024-28						
Program: B.Sc. (Animation		Current Academic Year: 2027-28				
,VF	X and Gaming Design)					
	nch: Mass Communication	Semester: 8				
1	Course Code	OPE				
2	Course Title	Digital Media Marketing				
3	Credits	4				
4	Contact Hours (L-T-P)	0-3-2				
5	Course Type	Compulsory				
6	Course Objective	The main objective of the course is to impart skills of creating digital marketing				
	-	content. This course will help the students to use digital media to amplify messages.				
		The students will be able to make content discoverable in search, run ad campaigns				
		and advertise it on various social media handles.				
8	Course Description	The course is designed with the aim to impart the knowledge, skill and competency				
		of digital media marketing among the students. The course will help the students to				
		understand and apply the concepts, tools of digital media marketing.				
9	Outline Syllabus		CO Mapping			
	Unit 1	Marketing Fundamentals				
	1	Introduction to Digital Marketing and Digital Marketing Framework	CO1			
2		Identifying Customers (Who & where)	CO1			
3		Marketing Channels and Marketing Objectives	CO1			
Unit 2		Content Strategy				
1		Plan and create marketing content	CO2			
2		Distribute and Promote content	CO2			
3		Optimize websites & Landing Pages	CO2			
Unit 3		Social Media Presence				
1		Social Media Landscape	CO3			
2		Social Media Channels& content	CO3			
3		Implement and monitoring campaigns	CO3			
Unit 4		Social Media Advertising				
1		Introduction to social media advertising	CO4			
2		Platforms for Social Ads	CO4			
3		Hand-on exercise	CO6			
	Unit 5	SEO & SEM				
1		Search Engine Optimization (SEO)	CO5			
2		Search Engine Marketing with AdWords (SEM)	CO5 CO6			
	3 Hand-on Exercise					
	Mode of examination	Jury/Practical				
	Evaluations CA 25% CE(Viva) 25% ETE 50%					
	Text Book/s • B2B Digital Marketing Strategy: How to Use New Frameworks and Models to Achieve Growth by Simon Hall					
	Other References	Digital + Marketing & Vice Versa: Featuring Digital Strategies like the I- Journey, the I-Relevant content, the Spiral Strategy and much more by Juan A. Flores Sanchez				



Beyond Boundaries							
School: SSMFE		Batch 2024-28					
Program: B.Sc. (Animation		Current Academic Year: 2027-28					
,VFX and Gaming Design)							
Branch: Mass Communication		Semester: 8					
1	Course Code	BCJ421					
2	Course Title	Media & Communication Dissertation - Project					
3	Credits	9					
4	Contact Hours (L-T-P)	0-3-12					
5	Course Type	Compulsory					
6	Course Objective	The objective of this course is to:					
		Strengthen the academic research ability of the students.					
		Evolve the inquisitiveness of the students towards society and various factors					
		affecting media and society at a large.					
		Enhance the problem solving skills of the students.					
8	Course Description	The course is designed to inculcate the research value and skills among the students.					
9	Outline Syllabus	•			CO Mapping		
Unit 1-5		Complete the master's thesis/dissertation under the supervision of		vision of	CO1, CO2,		
		the assigned faculty in given time			CO3, CO4,		
		ane assigned racticy in given			CO5, CO6		
Guidelines for the students		 Each student is required to write a dissertation on any topic related to communication and will have to seek approval of the faculty supervisor for her/his dissertation. The final dissertation report duly signed by the supervisor and head of the center has to be submitted to the center before the summative examination of the last semester. Students will apply similarity checker before submitting final copy of 					
		dissertation and submit self-declaration that similarity in dissertation content,					
		excluding review of literature, is not more than 15 percent.					
Mode of examination		Jury					
Evaluations		CA 25%	CE(Viva) 25%	ETE 50%			