ALAGAPPA UNIVERSITY

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

DIRECTORATE OF COLLABORATIVE PROGRAMMES



B.SC. Visual Effects

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

Regulations and Syllabus

GENERAL INSTRUCTIONS AND REGULATIONS

B.Sc. Visual Effects conducted by Alagappa University, Karaikudi, Tamil Nadu through its Collaborative Institution.

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

1. Eligibility:

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

2. For the Degree:

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

3. Admission:

Admission is based on the marks in the qualifying examination.

4. Duration of the course:

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

5. Standard of Passing and Award of Division:

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

6. Continuous internal Assessment:

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

- d. Conduct of the continuous internal assessment shall be the responsibility of the concerned faculty.
- e. The continuous internal assessment marks should be submitted to the University at the end of every semester, before the commencement of Semester Exams.
- f. The valued answer papers/assignments should be given to the students after the valuation is over and they should be asked to check up and satisfy themselves about the marks they have scored.
- g. All mark lists and other records connected with the continuous internal assessments should be in the safe custody of the institution for at least one year after the assessment.

7. Attendance:

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

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

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

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

8. Examination:

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

9. Question Paper pattern:

Maximum: 75 Marks Duration: 3Hours

Part A - Short answer questions with no choice $: 10 \times 02=20$ Part B -Brief answer with either or type $: 05 \times 05=25$ Part C- Essay – type questions of either / or type $: 03 \times 10=30$

10. Miscellaneous

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

11. Fee structure

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

Semester Pattern

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

12. Other Regulations:

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

REGULATIONS AND SYLLABUS

B.Sc Visual Effects

SEM	Part	Course	Courses	Title of the namer	T/P	Credit	Hrs/	M	ax. Mar	·ks
SEWI	rart	Code	Courses	Title of the paper	1/1	Credit	week	Int.	Ext.	Total
	I	82911T/ 11H/11F	T/OL	Tamil /Other Languages-I	Т	3	4	25	75	100
	II	82912	Е	General English-I	T	3	4	25	75	100
		82913	Core 1	Design & Photography	T	4	5	25	75	100
I		82914	Core 2	Design & Photography - Practical	P	4	6	25	75	100
	III	82915	Allied 1	Introduction to Visual Communication	Т	3	3	25	75	100
		82916	Allied 2	Visual Communication Methods	P	3	5	25	75	100
	IV	<mark>82917</mark>	SEC -I		T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100
				Library			1			
				Total		22	30	175	525	700
	I	82921T/H/F/ TU/M/A/S	T/OL	Tamil/Other Languages-II	Т	3	4	25	75	100
	II	82922	Е	General English-II	T	3	4	25	75	100
_		82923	Core 3	Motion Graphics	T	4	5	25	75	100
II		82924	Core 4	Motion Graphics - Practical	P	4	6	25	75	100
	III	82925	Allied 3	Visualization for Production	T	3	3	25	75	100
		82926	Allied 4	Visualization for Production - Practical	P	3	5	25	75	100
	IV	<mark>82927</mark>	SEC -II	Environmental Studies	T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100
		82928A/		Internship/	I/	2		25	75	100
		82928B		Mini Project	PR	_			, ,	100
				Library		2.4	1	• • • •	600	000
		020217/11/5/		Total		24	30	200	600	800
	I	82931T/H/F/ TU/M/A/S/	T/OL	Tamil/Other Languages-III	Т	3	4	25	75	100
	II	82932	Е	General English-III	T	3	4	25	75	100
		82933	Core 5	VFX Production I (Compositing)	T	3	3	25	75	100
		82934	Core 6	VFX Production I (Compositing) - Practical	P	3	5	25	75	100
ш	III	82935	Core 7	Fundamental of Videography & Audiography	Т	3	3	25	75	100
111		82936	Allied 5	· /	T	3	3	25	75	100
		82937	Allied 6	VFX Production II (3D for VFX) - Practical	P	2	4	25	75	100
		<mark>82938</mark>	SEC-III	Entrepreneurship	T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100
		82939A		1.Adipadai Tamil	P					
	IV	<mark>82939B</mark>	NME-I	2.Advance Tamil	T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100
		82939C	1 1111111111111111111111111111111111111	3.IT Skills for Employment	T T	_	_		, , ,	100
				Total		24	30	225	675	900
11.7	Ι	82941T/H/F/ TU/M/A/S	T/OL	Tamil /Other Languages -IV	Т	3	4	25	75	100
IV	II	82942	Е	General English-IV	Т	3	4	25	75	100
		82942	Core 8	Video Editing	T	4		25	75	100

Name			82944	Core 9	VFX Production III (FX for VFX)	T	4	4	25	75	100
Name		III	82945	Core 10		P	3	5	25	75	100
Rotomation &CG Compositing P 2 4 25 75 100			82946	Allied 7	Rotomation & CG Compositing)	T	3	3	25	75	100
IV			82947	Allied 8	Rotomation &CG Compositing)-	P	2	4	25	75	100
IV			82948		I .	I	2		25	75	100
No. No.			82949A			P					
Note		IV.	<mark>82949B</mark>	NIME II	2.Advance Tamil		2	<mark>2</mark>	25	75	100
V III		1 V	82949C	INIVIE-II	3. Small Business Management		<u> </u>	<mark>~</mark>	23	/ 3	100
Nation N						T					
Nation N											
V III											
V III			82952	Core 12		T	4	5	25	75	100
V III			82953B	DSE 1	1.Rotoscopy 2.Keying 3.Tracking	P	4	5	25	75	100
No. No.	V	III	82954B	DSE 2	1.Modelling & Texturing 2.Lighting & Rendering 3.Rigging & Animation	P	4	5	25	75	100
Note			82955B	DSE 3	Camera Tracking Object Tracking	P	4	5	25	75	100
Skills Total 22 30 150 450 600			82956	Core 13	Presentation	P	2	4	25	75	100
Name					skills						
VI 82962 Core 15 Trends in VFX Emerging Technologies and Trends in VFX T 4 4 25 75 100 VI 82963 Core 16 Game Engine for VFX - Practical P 5 5 25 75 100 FX & Advanced Compositing 82964A 82964B DSE 4 DSE 4 DSE 4 DSE 4 September 2. CFX September 2. CFX September 3. CG & Live Action Footage P 4 5 25 75 100 PR/ 82965B Project/ Dissertation PR/ Dissertation D 6 12 25 75 100					Total		22				600
VI 82962 Core 15 Trends in VFX 1 4 4 25 75 100 VI 82963 Core 16 Game Engine for VFX - Practical P 5 5 25 75 100 FX & Advanced Compositing 1. FX 2. CFX 3. CG & Live Action Footage P 4 5 25 75 100 82964C 3. CG & Live Action Footage PR/ Dissertation PR/ Dissertation 6 12 25 75 100		III	82961	Core 14	Project Management	T	3	4	25	75	100
VI 82964A 82964B 82964C DSE 4 FX & Advanced Compositing 1. FX 2. CFX 3. CG & Live Action Footage P 4 5 25 75 100 82965A/ 82965B Project/ Dissertation PR/ D 6 12 25 75 100			82962	Core 15		T	4	4	25	75	100
R2964A R2964B R2964C R2965A/ R2965B R2965B R2965B R2965A/ Dissertation R2965A/ R2965B R			82963	Core 16	Game Engine for VFX - Practical	P	5	5	25	75	100
82965B Dissertation D 0 12 23 73 100	VI		82964B	DSE 4	1. FX 2. CFX	P	4	5	25	75	100
						l 1	6	12	25	75	100
							22	30	125	375	500
Grand Total 140 180 1100 3300 4400						1					

 $DSE-Student\ Choice\ and\ it\ may\ be\ conducted\ by\ parallel\ sections.\ **NME-Students\ have\ to\ select\ courses\ offered\ by\ other\ (Faculty)\ departments.***\ SLC-Voluntary\ basis\ T-Theory\ P-Practical$

	I – Semester										
Core	Course code: 82913	Design & Photography	T Credits: 4	Hours: 5							
Objectives	Study de emphasizir Introduce fundament Explore c schemes, a Explore t manipulati Study grids	 Study design fundamentals, characteristics, elements, and principles, emphasizing creativity's significance and development. Introduce photography, covering types, exposure, camera operations, light fundamentals, analysis, focusing, composition, and lenses Explore color theory basics, attributes - hue, value, saturation, harmony, schemes, and psychology, along with models - additive and subtractive Explore typography and graphics, including typeface anatomy, image manipulation. Study grids, layouts, their roles, structures, guidelines, and the design process. 									
Unit I	of design – point design – balance	ral - Characteristics of a good designated - line - shape - form/space - value/- emphasis - dominance - harmon - creativity - importance of creat	tone - texture - c ny - unity - cor	olor – principles of strast - repetition -							
Unit II	Aperture – ISO –	otography – Overview of types of Camera Operations - Fundamentals cusing System – Composition – Vi	s of Light – Read	ing & Analysis of							
Unit III	- saturation – composition – complementary complementary	troduction – basics of colour theory blour wheel – colour harmony – polychromatic - warm colours – blours - split compliments - incong e model - subtractive model – colou	- colour scheme cool colours - a gruous - triads a	es – achromatic - nalogous colours - nd tetrads – colour							
Unit IV	blending – additive model - subtractive model – colour contrast – colour psychology. Typography – typeface anatomy - measurements – typeface classifications – ty families – spacing and alignment – selecting appropriate fonts – tips and techniques Graphics – importance of graphics – types of graphics – vector graphics - raster graph – image manipulation – format conversion – crop and scale – silhouetting – colo manipulation – edge and transparency – assembling images – filtering envelope/containers.										
Unit V	Grids and layouts layout guidelines - organizing layouts design process – d	 role of grids – structure – grid sys important parts of a page layout - capturing readers attention - designments emonstrations and guidelines. 	factors influencing	ng a layout –							
Reference a	and Text Books										

Contran Terence, "Terence Conran On Design", Conran Publication, 1996.

Davis Graham, "The Designer's Tool Kit 1000 Colours", Chronicle Books, 2007.

Eisman Leatrice, "Pantone Guide to Communicating With Color", Grafix Press, 2015.

Paul R. Comon, "Fundamentals of Photo Composition", Sterling, 2012.

Tom Ang, "Fundamentals of Photography: The Essential Handbook for Both Digital and Film Cameras", Knopf, 2008.

Online Resources

https://www.creativebloq.com/graphic-design-tips/photoshop-tutorials-1232677

https://www.photoshopessentials.com/

https://www.youtube.com/@BennyProductions

https://www.youtube.com/watch?v=Qj1FK8n7WgY&t=29s

Course	Outcomes	Knowledge level
CO-1	Grasp design fundamentals, characteristics, elements, principles, and unleash creative potential effectively.	K1

CO-2	Attain a foundational understanding of photography, including types, exposure control, camera operation, light principles, composition, and lens usage.	K2
CO-3	Acquire a foundational understanding of color theory, including its attributes, harmony, schemes, psychological aspects, and practical applications.	K2/K3
CO-4	Master typography and graphics fundamentals for effective design.	K5
CO-5	Gain proficiency in creating effective layouts using grids and understanding the design process.	K2/K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)
CO4	L(1)	M(2)	L(1)	M(2)	M(2)	L(1)	S(3)	L(1)	M(2)	M(2)
CO5	L(1)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)	L(1)	M(2)	M(2
W.AV	1.2	2.2	2	2.2	1.6	2	2.4	1.2	2	2.4

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

I-Semester

Core	Course code: 82914	Design & Photography - Practical	P	Credits:4	Hours:6				
		iming to be visually pleasing and intriguing.	4 . 14	00 1					
2. The primary objective is to communicate the necessary details effectively									
Objectives	3. Utilize t	ypography which must be easy to read and under	erstan	d.					
	4. Design t	o pique curiosity or generate interest without re	vealir	ng all the det	ails upfront.				
	5. Design and implement the elements and principles of design.								
Students are	Students are required to create the following:								
1 Dogio	n a magazina ac	yer level for the given photographs							

- 1. Design a magazine cover layout for the given photographs.
- 2. Create a Movie Poster for Upcoming Movies.
- 3. Create a Social awareness Poster.
- **4.** Design a brochure or a product catalog.
- **5.** Create 6 photographs integrating the design elements.
- **6.** Create 6 photographs integrating the design principles.
- 7. Create 6 photographs integrating Colors theory.
- **8.** Create an image by way of manipulation using the given images.
- 9. Design an editorial spread sheet for the given photographs.
- 10. Restore and retouch the given damaged photograph

10. Resto	re and retouch the given damaged photograph.
	1. Effective Communication: The poster should convey the intended message clearly and concisely, ensuring that viewers understand the main points and key information presented.
	2. Visual Hierarchy: Learn how to establish a visual hierarchy through typography, color, and layout to guide viewers' attention to the most critical elements of the poster.
	3. Audience Engagement: Understand how to engage the target audience through compelling visuals, engaging content, and a design that resonates with their interests and needs.
Outcomes	4. Branding and Identity: Explore how to incorporate brand elements (logo, colors, fonts) effectively into the poster design to reinforce the organization's identity and recognition.
	5. Information Organization: Develop skills in structuring and organizing information in a logical and visually appealing manner, ensuring that content flows smoothly from one section to another.
	6. Use of Graphics and Imagery: Learn how to select and incorporate appropriate graphics, images, and illustrations that enhance the message and captivate the audience.
	7. Typography Mastery: Gain expertise in selecting and pairing fonts, using font size and style to emphasize key points, and maintaining readability throughout the poster.
	8. Color Psychology: Understand the psychological impact of colors and how to choose

Contran Terence, "Terence Conran On Design", Conran Publication, 1996.

the audience.

Davis Graham, "The Designer's Tool Kit 1000 Colours", Chronicle Books, 2007.

Eisman Leatrice, "Pantone Guide to Communicating With Color", Grafix Press, 2015.

Paul R. Comon, "Fundamentals of Photo Composition", Sterling, 2012.

Tom Ang, "Fundamentals of Photography: The Essential Handbook for Both Digital and Film Cameras", Knopf, 2008.

a color scheme that aligns with the message and evokes the desired emotions from

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)
CO2	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	L(1)	S(3)	S(3)	S(3)
CO3	S(3)	M(2)	S(3)	L(1)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	L(1)	S(3)	S(3)	M(2)	M(2)
CO5	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)	S(3)	M(2)	M(2
W.AV	3	2	2.2	1.4	2	2	1.8	3	2.2	2.4

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M(2)	L(1)	M(2)	S(3)	M(2)
CO2	M(2)	L(1)	S(3)	M(2)	S(3)
CO3	L(1)	L(1)	S(3)	M(2)	M(2)
CO4	L(1)	L(1)	M(2)	S(3)	S(3)
CO5	M(2)	L(1)	M(2)	M(2)	M(2)
W.AV	1.6	1	2.4	2.4	2.4

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

understand and interpret the intended message. The main objective of understanding visual communication is to equip individuals with the knowledge and skills needed to effectively communicate and interpret messages through visual means. The study of signs and symbols. It involves understanding the dynamics of communication, its role in shaping public sentiment, and its influence on various aspects of society. To acquaint students with a wide range of goals related to understanding, analyzing, and effectively utilizing mass media as a means of communication Unit I Introduction to visual communication: Clarity and Comprehension, Engagement, Conveying Emotions, Enhancing Retention, Universal Understanding, Problem Solving, Types of communication Verbal and Non verbal, Barriers of Communication Unit II Understanding Visual Communication: SMCR Model Theoretical concepts and constructs in Communication models, Lasswell's Model, Two-step flow theory, Schramm's Circular Model, Whites Gatekeeper theory, Dance's Helical model, Levels of Communication: Technical, Semantic, and Pragmatic, Enhanced Communication Skills. Unit III Introduction to semiotics: Analysis, aspects of signs and symbols denotations and connotations - paradigmatic and syntagmatic aspects of signs. The semiotic landscape: Language and Visual communication - Narrative representation. Principles of Visual Sensory Perceptions - Color psychology and theory (some aspects) - Definition Optical/Visual Illusions etc., Design process -Research - A source of concept - The process of developing ideas, verbal, visual, combination &thematic - Visual thinking - Associative techniques, materials, tools (precision instruments etc.) -Design execution and presentation. Case Studies in communications skills, Ideation and Creative Thinking Lateral Thinking. Designing Messages for different audiences. Unit IV Communication and Public opinion: Understanding Public Opinion Formation, Understanding Communication Theories, Strategic Communication.	Allied	Course	Introduction to Visual Communication	T	Credits: 3	Hours: 3				
understand and interpret the intended message. The main objective of understanding visual communication is to equip individuals with the knowledge and skills needed to effectively communicate and interpret messages through visual means. The study of signs and symbols. It involves understanding the dynamics of communication, its role in shaping public sentiment, and its influence on various aspects of society. To acquaint students with a wide range of goals related to understanding, analyzing, and effectively utilizing mass media as a means of communication Unit I Introduction to visual communication: Clarity and Comprehension, Engagement, Conveying Emotions, Enhancing Retention, Universal Understanding, Problem Solving, Types of communication Verbal and Non verbal, Barriers of Communication Unit II Understanding Visual Communication: SMCR Model Theoretical concepts and constructs in Communication models, Lasswell's Model, Two-step flow theory, Schramm's Circular Model, Whites Gatekeeper theory, Dance's Helical model, Levels of Communication: Technical, Semantic, and Pragmatic, Enhanced Communication Skills. Unit III Introduction to semiotics: Analysis, aspects of signs and symbols denotations and connotations - paradigmatic and syntagmatic aspects of signs. The semiotic landscape: Language and Visual communication - Narrative representation. Principles of Visual - Sensory Perceptions - Color psychology and theory (some aspects) - Definition - Optical/Visual Illusions etc., Design process - Research - A source of concept - The process of developing ideas, verbal, visual, combination &thematic - Visual thinking - Associative techniques, materials, tools (precision instruments etc.) -Design execution and presentation. Case Studies in communications skills, Ideation and Creative Thinking Lateral Thinking. Designing Messages for different audiences. Unit IV Communication and Public opinion: Understanding Public Opinion Formation, Understanding Communication. Understanding Media Effects, Media and Democracy,		code:82915								
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Reference and Text Books		model.								
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Worth, S. (2016). Studying visual communication. University of Pennsylvania Press.

Johansen, J. D., & Larsen, S. E. (2005). Signs in use: an introduction to semiotics. Routledge.

Glynn, C. J. (1987). The communication of public opinion. *Journalism Quarterly*, 64(4), 688-697.

Shabir, G., Safdar, G., Jamil, T., & Bano, S. (2015). Mass Media, Communication and Globalization

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Online Resources

https://www.youtube.com/watch?v= TudzupRuCs

https://onlinecourses.nptel.ac.in/noc20 ar15/preview

https://www.ualberta.ca/art-design/areas-of-study/visual-communication-design.html

https://www.youtube.com/watch?v=ubR8rEgSZSU

https://www.youtube.com/watch?v=2p0NRBaQ4Ic

Course Outcomes Knowledge level

CO-1	Convey information and messages effectively, engage the audience, and enhance understanding through the use of visual elements and design principles	K1&K2
CO-2	It allows us to gain insight into how visual elements and design principles are used to convey information, ideas, and messages effectively.	K3&K6
CO-3	Studying semiotics is to develop a deeper understanding of how signs and symbols operate in various aspects of life, from language to culture to communication, and to apply this understanding in diverse contexts, including academia, communication, culture, and creativity	K4
CO-4	Studying communication and public opinion encompass a range of goals related to understanding, analyzing, and influencing how communication shapes public sentiment and attitudes	K5
CO-5	Allows students to connect deeply with mass media communication in gaining an understanding of the media landscape, its effects on society, and the practical skills needed for careers in media and communication fields	K2&K6

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

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

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

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

Course Code: 82916	Title of the Course	Visual Communication Methods	P	Credits: 3	Hours: 5			
Objectives	The objective The control of the con	a message through a series of carefully selected ective is to engage viewers emotionally and interactive is to engage viewers emotionally and interactive a compelling narrative that engages the audience ons effectively. isually striking and emotionally resonant image and evoke. connection between the subject and the audient and present different cultures, customs, and travallowing viewers to immerse themselves in the	ellecture and es that ce. ditions subject	ally. conveys in capture the s through m	formation viewer's			
	Students are required to create the following:							

- 1. Create a photo documentary to promote a culture through food.
- 2. Create a photo documentary to promote a culture through people and lifestyle.
- 3. Create a Photo documentary to address any social issues.
- 4. Create a video documentary on working people.
- 5. Create a video documentary on food and lifestyle.
- 6. Create a video documentary to promote a city.
- 7. Create an Add Film for a product.
- 8. Create a mobile short film.
- 9. Create video content to generate awareness on any social issue.
- 10. Create video content to promote an event.
 - 1. Still Images: Photo documentaries primarily use still images to convey a story or message. These images capture a moment frozen in time, allowing viewers to study details and emotions in each frame. 2. Emphasis on Composition: Photographers focus on composition, lighting, and framing to create impactful and visually striking images. Each photo is a work of art on its own. 3. Narrative through Visuals: Photo documentaries often rely on the power of visual storytelling. Photographers use sequences of images to narrate a story or document a subject, allowing viewers to draw their own conclusions and emotions. 4. Color Psychology: Understand the psychological impact of colors and how to

Outcomes

- choose a color scheme that aligns with the message and evokes the desired emotions from the audience.
- 5. Moving Images: Video documentaries use moving images, combining visuals with sound, narration, and music. This dynamic medium allows for a more immersive experience.
- **6.** Engaging Storytelling: Video documentaries often employ a mix of interviews, footage, animations, and other multimedia elements to engage and inform the audience. They can create a more comprehensive and emotional connection with viewers.
- 7. Narration and Interviews: Video documentaries frequently incorporate spoken narration, interviews with subjects, and ambient sounds to provide context and emotional depth to the story.

Reference and Text Books:

Dmytryk, E., Lund, A., & Hurbis-Cherrier, M. (2018). On film editing: An introduction to the art of film construction. Routledge.

Dancyger, K. (2018). The technique of film and video editing: history, theory, and practice. Routledge.

Crittenden, R. (2003). Film and video editing. Routledge.

Online Resources

https://www.movophoto.com/blogs/movo-photo-blog/mobile-filmmaking https://www.adorama.com/alc/how-to-make-a-documentary/

Course Outcome VS Programme Outcomes

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		II-Semester - Core							
Core 3	Course Code 82923	Motion Graphics	Т	Credits: 4	Hours: 5				
Objective	1. To Understand motion graphics, as well as the Elements & Principles Involved in their creation 2. To inculcate knowledge about Text and 2d Animation. 3. To educate students about Compositing. 4. To gain expertise in creating Fx and Audio editing for Motion Graphics. 5. Acquire in-depth knowledge of Creating 3d Title Animation.								
UNIT-I	Introduction to Motion graphics, History of motion graphics, Different types of Motion Graphics-12 Principles of Animation- Element and Principles of Motion Graphics Elements - Typography For Motion GraphicsImage file Formats and Video file formats								
UNIT-II	Animation- In	Animating Psd & Ai Files in After Effects-Text Animation-Kinetic Typography -Path Animation- Infographic Chart Animation - Isometric Icon Animation -Character walk cycle-Character Facial Animation - Fake 3d.							
UNIT-III	RotoScope - K System-Paint - C	eying - Color Correction-2d tracking- Sta Compositing.	abilizii	ng-Camera	Tracking-Particle				
UNIT-IV	Use of Camera 3D layers, Usage of Lights, Camera usage in creating Motion Graphics - Displacement Map - Plug-Ins Trapcode particular - Optical flare - Saber- Importance of sound in Motion Graphics - Sound FX and Audio Editing for Motion graphics.								
UNIT-V	Introduction to element 3d - importing text ,paths & converting into 3d Object -Applying materials and textures to 3d models & text, shadows - 3d text animation - Usage of groups in Element 3d -Particle Replicator-Particle Look -Animation Engine in Element 3d -Importing OBJ to element 3d -Animation in element 3d, adding effects to element 3d object -Render settings								

- 1. Wright, S. (2013). Compositing visual effects: Essentials for the aspiring artist. Routledge.
- 2. Shaw, A. (2015). Design for motion: fundamentals and techniques of motion design. Routledge.
- 3. Woods, S. (2002). THE ANIMATOR'S SURVIVAL KIT. Film Ireland, (85), 28.
- 4. Audronis, T. (2014). Lightning Fast Animation in Element 3D. Packt Publishing.
- 5. Gyncild, B. (2020). Adobe After Effects Classroom in a Book® 2022 release. Adobe Press.

Online Resources

- https://www.creativebloq.com/advice/understand-the-12-principles-of-animation
- https://www.creativebloq.com/features/element-3d-what-it-is-and-how-to-use-it
- https://www.youtube.com/@VideoCopilot
- https://www.youtube.com/@MoveShapes
- https://www.youtube.com/@nijatIbrahimli

Course Out	comes Knowledge	level
CO-1	Will understand and Describe the Elements & Principles Involved in creation of	K2
	Motion graphics.	
CO-2	Will be able to Practice & Create Text and 2d Animation.	K3&K6
CO-3	Will be able to Examine & Generate Compositing Shots	K4
CO-4	Will be able to visually interpret the Effects learnt in their Motion Graphics.	K5
CO-5	Will be able to develop & create 3d Title Animation based on their choice of	K6
CO-3	study	KU

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	M(2)	M(2)	L(1)	M(2)	L(1)	S(3)	L(1)	L(1)	M(2)
CO2	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)
CO3	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)
CO5	S(3)	M(2)	S(3)	L(1)	L(1)	M(2)	L(1)	S(3)	M(2)	M(2)
W.AV	2.6	2	2.2	1.6	1.2	1.8	2	2	1.8	2

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

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

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

		II-Semester - Core			
Core 4	Course Code 82924	Motion Graphics - Practical	P	Credits: 4	Hours: 6
Objectives	 Grab the audinations, Support story Convey emotion Design promanimated log Create seam backgrounds 	objective is to communicate information effection and maintain their interest by transitions, and graphics into videos or present ytelling by adding visual elements that enhanctions, concepts, or messages more effectively notional materials for events, conferences, or egos, event teasers, and informational videos. Hessly integrate different visual elements, such and special effects, to create a coherent and teching color, lighting, and perspective.	y incorp tations ce the re exhibition as act	porating dyr aarrative and ons, includi	help
	mvorves ma	Students are required to create the following:			
Create infog	on graphics to por graphics to commu ducational Video.	trait a social problem. unicate statistical information.			
		n for the given video.			
	title animation.				
6. Create a Mo		:4.1:			
		with live action footage.			
		given footage using Rotoscope.	mound		
		e given footage and composite with suitable backs	ground.		
	d Text Books:	a 3d Object in live action footage.			
		g visual effects: Essentials for the aspiring artist.	Routled	ore.	
		notion: fundamentals and techniques of motion de			
		IATOR'S SURVIVAL KIT. Film Ireland, (85), 28		outleage.	
		g Fast Animation in Element 3D. Packt Publishing			
Outcomes	Conceptus graphics proceeded developing developing. Design Proceeded from theory, commotion graphics of theory, commotion graphics of the software and the software and the software developing from the software	alize and Plan: Demonstrate the ability to concept projects by understanding client needs, defining page a creative vision. Finciples: Apply fundamental design principles, in proposition, and visual hierarchy, to create visually raphics. Proficiency: Utilize industry-standard software su emiere Pro, and Adobe Illustrator to create motion isual elements, effects, and transitions. In Techniques: Employ a range of animation technology, asking, and particle effects, to bring static graphic years. Develop storytelling skills to craft narratives a notion graphics, considering pacing, narrative stru-	ualize a roject of cluding / appeal ch as A n graphi iques, i is to life and cometure, a effects and creshics for	typography, ing and effect dobe After Ecs, incorpora neluding keys and convey municate mend audience and music, seate a cohesive different pla	color tive ffects, ting framing, messages ssages

Online Resources

https://www.creativebloq.com/advice/understand-the-12-principles-of-animation

https://www.creativebloq.com/features/element-3d-what-it-is-and-how-to-use-it

https://www.youtube.com/@VideoCopilot

https://www.youtube.com/@MoveShapes

https://www.youtube.com/@nijatIbrahimli

Course Outcome VS Programme Outcomes

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		II-Semester - Allied			
Allied 3	Course Code 82925	VISUALIZATION FOR PRODUCTION	Т	Credits: 3	Hours:3
Objective	creation 2. To incu 3. To educ 4. To educ	erstand motion graphics, as well as the Elem leate knowledge about Figure drawing. cate students about the fundamentals of story cate students about Story Board & Animatics naint students with technical skills required for	develogand its	pment effectiveness	s.
UNIT-I	light and shad sketching and and shade; O perspective, O birds eye view		osition - n of fie e of Pe e, Three	Scale & pro eld; Degree of erspective, A e point perspe	portion; Still life f contrast; Light erial VS Linear ective (worms &
UNIT-II	Stick figure - Overlapping;	ng basics - Essentials of human figure dra To understand measurement and pose; Line Contour drawing - different poses; Qu Head study - Male Head; Female Head; I	of acti	ion; Balance; xetches - S	Foreshortening; tudy from live
UNIT-III	Plot; Situation Screenwriting: Different stag	tory - Theme & Plot, One line story, Story n Archetypes - Synopsis & Story - Story in a : 3 Act Structure - Setup, Confrontation es of Hero's Journey; Conflict & Cliché - Ele	nutshe and R ments	ll, Events in lesolution; Hof Screenwrit	Linear Structure. Iero's Journey - ting
UNIT-IV	Thumbnail; l Character Mov Animatics; Fir	& Animatics: Scene, Shots & Thumbnai Fair Storyboard - Neat Sketch with Detail wement and Camera Movements; Sound for all Animatics - Visual Edit with Movement	of Sh Anima and Au	not; Moveme ntics - Voice, dio	nts for Arrow - Music, SFX for
UNIT-V	Usage of brus Painting, Usa photoshop, Ph in Photoshop.	o Photoshop, Image File Formats and Imashes in Photoshop; Thumbnail Paintings for age Of Color Correction tools, Selection oto Manipulation, Color Matching Techniq Introduction to 3d workspaces in photosl Textures, Creating Normal Map and Bump,	Concept Tools les ,Blo lop,,Im	t Art. Greysc . Refining tending Modes porting 3d C	ale Environment the selection in s, Set Extension Objects, Applying

- Barber, B. (2018). The Complete Book of Drawing: Essential Skills for Every Artist. United Kingdom: Arcturus Publishing.
- Chari, Aditya,(2005). Figure Study Made Easy, Grace Prakashan Publisher.
- Simon, M. (2012). Storyboards: motion in art. Routledge.

Online Resources

- https://mattepaint.com/blog/matte-painting-basics-matching-perspectives/
- https://www.youtube.com/watch?v=3pCT7bC8jHE

Course Outo	comes Knowled	lge level
CO-1	CO-1 Will relate and understand the techniques and concepts involved in shading and Perspective.	
CO-2		
CO-3	Will understand the fundamentals of the story and be able to write a story.	K2&K3
CO-4	Will be able to visually interpret the story through storyboard.	K5
CO-5	Will be able to develop creative environments based on their choice of study.	K6

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

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	S(3)
W.AV	2.4	2.2	2.8	2.2	2.2

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

Allied 4	Course Code 82926 Visualization for Production - Practical P Credits: 3	Hours: 5						
Objective	 Visualize the entire narrative or sequence of a project, allowing the creators the story unfolds, shot by shot or scene by scene. Ensure that the visual representation aligns with the script Develop visual storytelling of a film or project by creating environments the narrative, mood, or atmosphere. create realistic and immersive environments that may be challenging or cos or build practically. Create detailed and imaginative designs that align with the project's creative 	nat enhance						
1.	Students are required to create the following: raw a one point perspective environment of the living room to demonstrate your drawing	skills.						
-	eate a matte painting to demonstrate your set extension skills.							
	Create print collage to demonstrate your set extension and compositing skills.							
	Create a matte painting using digital collage and photography to create composites.							
	Create a hand painted concept art to demonstrate your art and storytelling skills.							
6. Create a digital concept art to demonstrate your set extension skills.								
	eate a Storyboard for a given story.							
8.	Create an environmental set extension to demonstrate your visualization skills.							

Decorate the given empty space using digital collage to demonstrate your technical skills.
 Create an interior environment using two point perspectives to demonstrate your visualization

• Creative Thinking: Storyboarding encourages students to think creatively. Whether they are storyboarding for a film, a presentation, or a project, they must come up with imaginative and innovative ideas to convey their message effectively.

- Problem Solving: Creating a storyboard often involves solving logistical and narrative problems. Learners must figure out how to visually represent their ideas and how to structure their story or project in a coherent and engaging manner.
- Communication Skills: Storyboarding helps students develop their communication skills. They need to convey their ideas visually, which requires them to think about how images and text work together to convey a message effectively.
- Planning and Organization: Storyboards require careful planning and organization. Students must decide what to include in each frame or section, ensuring that the story or project flows logically and cohesively.
- Time Management: When working on a time-bound project, like a video production or presentation, learners must manage their time effectively to complete their storyboard and subsequent tasks on schedule.
- Conceptualize and Design: Generate creative and visually compelling concepts for matte paintings, demonstrating a deep understanding of storytelling and composition in digital environments.
- Digital Artistry: Apply advanced digital painting techniques to create realistic and seamless matte paintings, incorporating elements such as lighting, perspective, and atmospheric effects.

Reference and Text Books:

- 1. Barber, B. (2018). The Complete Book of Drawing: Essential Skills for Every Artist. United Kingdom: Arcturus Publishing.
- 2. Chari, Aditya,(2005). Figure Study Made Easy, Grace Prakashan Publisher.
- **3.** Simon, M. (2012). Storyboards: motion in art. Routledge.

Online Resources

skills.

Outcomes

- https://mattepaint.com/blog/matte-painting-basics-matching-perspectives/
- https://www.youtube.com/watch?v=3pCT7bC8jHE

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		III-Semester - Core			
Core 5	Course Code 82933	VFX Production I (Compositing)	T	Credits: 3	Hours: 3

Objective	 To Educate students about digital compositing, To isolate specific objects, characters, or elements within a live-action scene. To interact CGI elements/ Different Images and Image Sequence into live-action footage and ensure that they match the camera's motion and perspective. To create unique and imaginative visuals. To acquaint students with technical skills required for their choice of study.
UNIT-I	Introduction to compositing - Introducing node based compositing - Advantages of Nuke-Nuke interface-Menu Tab and its uses –How to navigate using Viewer - Properties Bin - Tools - Merging multiple layers/Images - Addmix – Node graph as basic building blocks of any compositing
UNIT-II	Introduction to RotoScopy - Single frame Roto - Usage of Subtract Roto - Purpose of Segmenting Roto for a Character-How to Segment a Character Roto- usage of Feather in Roto - Open spline for hair Roto
UNIT-III	Introduction to 2d Tracking - One Point Track using position- Two point track using position and rotation - Four point Track using perspective -Stabilizing a footage with the help of tracker -Track rigid objects and objects using- Planar Tracker Introducing 3D camera tracking Purpose of 3D camera
UNIT-IV	Introduction to Keying - Purpose of blue/green screen - How to use keyer - How to use Primatte - How to use Keylight - How to use IBK Color and Gizmo - Color Correction - Grade Node - Hue Correct & Hue Shift - Log to Linear Creating Matte Painting for Compositing.
UNIT-V	introduction to prep & paint, clean platte, camera projection, clean up, wire removel, object removel scene node in 3D environment - How to import 3D objects-3D lighting in Nuke-Applying texture in Nuke-3D to 2D render conversion using scanline render

- 6. Gress, J. (2014). [digital] Visual Effects and Compositing. New Riders.
- 7. Couper, M. P., Tourangeau, R., & Kenyon, K. (2004). Picture this! Exploring visual effects in web surveys. Public opinion quarterly, 68(2), 255-266.
- 8. Jackman, J. (2007). Blue Screen Compositing: A Practical Guide for Video & Moviemaking. Taylor & Francis.
- 9. Lanier, L. (2012). Digital compositing with Nuke. Taylor & Francis.
- 10. Bratt, B. (2012). Rotoscoping. Taylor & Francis.

Online Resources

- https://learn.foundry.com/nuke
- https://www.youtube.com/@HugosDesk
- https://www.youtube.com/watch?v=zD6ZGhfSFdI&t=1132s
- https://www.nukecompositingtutorials.com/?cat=64

Course Outc	omes Knowledge	level
CO-1	Will relate and understand the techniques and concepts involved in Compositng	K1
CO-2	Will be able to extract Alpha channel using Rotoscopy Technique	K6&K4
1 (1)-3	Will understand the importance of tracking which makes the vfx shot more realistic and visually apeling.	K3
CO-4	Will be able to visually create a Visual Effects Shot.	K3&K6
CO-5	Will be able to Remove wire and objects which are unnecessary from a live action Footage	K6

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

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	S(3)
W.AV	2.4	2.2	2.8	2.2	2.2

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

III-Semester - Core									
Core 6	Course Code 82934	VFX Production I (Compositing) - Practical	P	Credits: 3	Hours: 5				

- 1. To acquire knowledge in Rotoscopy which plays a major role in compositing.
- 2. To create a final image or shot that appears realistic and seamless using Keying techniques..
- 3. To ensures that the audience's focus remains on the main subjects and actions in the scene without distractions.

Objectives

- 4. To integrating CGI elements into live-action footage and ensuring that they move realistically with the scene.
- 5. To enhance storytelling by providing visually stunning backdrops that support the narrative and create the desired atmosphere or mood.

Students are required to create the following:

- 1. Extract the object from the given footage using Rotoscopy Techniques
- 2. Extract the character from the given footage using Rotoscopy Techniques
- 3. Remove the bluescreen from the given footage and composite with suitable background.
- 4. Remove the green screen from the given footage and composite with suitable background.
- 5. Wire removal Using Sequence Paint
- 6.Rig Removal Using clean plate and tracking Technique.
- 7. Track the Monitor Screen and replace with the given footage
- 8. Remove the markers from the footage.
- 9. Create a matte painting and composite with the given footage.
- 10. Create set extension and composite with the given footage.

• Seamless Integration: The primary objective of set extension is to seamlessly extend the physical set or location to create a larger or more elaborate environment. This extension should blend seamlessly with the practical set, so the audience cannot discern the boundary between the real and digital elements.

- Visual Enhancement: Set extension enhances the visual quality and scale of a scene, allowing filmmakers to achieve grander and more visually striking compositions.
- Flexibility: Set extension provides filmmakers with the flexibility to shoot in real-world locations while digitally extending the set to meet the specific requirements of the scene or story.
- Cost Efficiency: Instead of constructing full-scale sets for every scene, set extension can save costs by digitally extending existing sets, making them appear larger or more elaborate than they actually are.

Outcomes

- Time Efficiency: Set extension can save time in production by reducing the need to build extensive physical sets. Filmmakers can focus on shooting essential elements while digitally extending the set later in post-production.
- Creative Freedom: Set extension allows for creative freedom, enabling filmmakers to design and depict environments that would be challenging, expensive, or impractical to build in reality.
- Enhanced Realism: By extending practical sets with digital elements, filmmakers can create environments that look real but offer more control over lighting, weather, and other factors.

- 1. Gress, J. (2014). [digital] Visual Effects and Compositing. New Riders.
- 2. Couper, M. P., Tourangeau, R., & Kenyon, K. (2004). Picture this! Exploring visual effects in web surveys. *Public opinion quarterly*, 68(2), 255-266.
- 3. Jackman, J. (2007). Bluescreen Compositing: A Practical Guide for Video & Moviemaking. Taylor & Francis.
- 4. Lanier, L. (2012). Digital compositing with Nuke. Taylor & Francis.
- 5. Mattingly, D. B. (2011). The digital matte painting handbook. John Wiley & Sons.

Online Resources

- https://learn.foundry.com/nuke
- https://www.youtube.com/@HugosDesk
- https://www.youtube.com/watch?v=zD6ZGhfSFdI&t=1132s
- https://www.nukecompositingtutorials.com/?cat=64

Course Outcome VS Programme Outcomes

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

III-Semester - Core											
Core 7	Course Code 82935	Fundamental of Videography & Audiography	Т	Credits: 3	Hours: 3						
Objective	 Introduce videography, its importance and applications in various industries. covering types of camera, exposure, and understanding camera operations. The study of framing techniques and the importance of lighting setups that effects the mood and atmosphere. Introduce audeography, its importance and applications in various industries. understanding properties of sound. Introduce various recording devices and techniques. Understanding the importance of sound design in storytelling. 										
UNIT-I	Introduction and History of Videography -Importance and applications in various industries - Overview of different types of videography (cinematic, documentary, corporate, etc.)-Types of cameras - Camera components - Understanding exposure										
UNIT-II	composition	s - Framing techniques - Understanding perspecti in storytelling - Types of lighting - Lighting setul Controlling exposure with lighting - Importance	ps and their	effects on m	nood and						
UNIT-III	different indu		Properties o	of sound - H	uman hearing						
UNIT-IV	common reco	Types of microphones - Recording devices - Location sound recording techniques - Dealing with common recording challenges- Audio Editing techniques - Mixing basics									
UNIT-V	Foley artistry storytelling a	and techniques for creating realistic sounds -Imp nd creating ambiance - Mastering basics - Qual d file formats	portance of s								

- 1. Ascher, S., & Pincus, E. (2007). *The filmmaker's handbook: A comprehensive guide for the digital age.* Penguin.
- 2. Mascelli, J. V. (1965). The five C's of cinematography (Vol. 1). Hollywood: Grafic Publications.
- **3.** Walter, M. (2001). In the blink of an eye: a perspective on film editing. *Los Angeles, California:* Silman-James Press. Literaturverzeichnis X.
- 4. Davis, G., & Davis, G. D. (1989). The sound reinforcement handbook. Hal Leonard Corporation.
- 5. Owsinski, B. (2006). *The mixing engineer's handbook*. Boston: Thomson Course Technology.

Online Resources

https://www.youtube.com/@filmriot

https://www.soundonsound.com/

https://theproaudiofiles.com/

Course Outo	comes Knowledge	level				
CO-1	Attain a foundational understanding of Videography and types of cameras and its components.					
CO-2	Grasp the framing techniques and Importance of composition in storytelling					
CO-3	Acquire a foundational understanding of Audiography and its importance and applications in various industries.	K2&K4				
CO-4	It allows us to gain insight into how audio editing techniques and mixing works.	K5				
CO-5	Grasp an understanding about the importance of sound design in storytelling.	K5				

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

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	S(3)	M(2)	M(2)
CO2	M(2)	M(2)	S(3)	M(2)	M(2)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	S(3)
W.AV	2.4	2.2	2.8	2.2	2.2

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

		III-Semester -Allied								
Allied 5	Course code: 82936	VFX Production II (3D for VFX)	Т	Credits: 3	Hours: 3					
Course Objectives	stages, 2. Under visual 3. Master practic 4. To und and to 5. Master	relop proficiency in productive modeling using techniques, and applications. stand texture creation, unwrapping, and shader effects. the fundamentals of lighting and color, both ral applications. derstand the anatomy for animation and to rig to create industry level animations digital lighting and rendering techniques using of lighting and rendering.	devenatura	lopment for real and artificial odels with per	ealistic I, and their fect anatomy					
Unit - I	Plannar, Revol Polygons conv Fill hole, Creat with projected harden edge - S	Maya Interface – 3D Modeling - Curve tools - CV curve tool, EP curve tool Surface - Loft, Plannar, Revolve, Birail, Extrude - NURBS Primitives, Polygons Primitives, NURBS to Polygons conversation, Polygons toNURBS - Polygon Primitives - Mesh tools - Boolean, Fill hole, Create Polygon, Insert Edge loop, multi-cut - Porject Curve on Mesh, Split Mesh with projected curve - Bridge, Bevel, Poly extrude, Merge - Weld, Target weld, Soften edge, harden edge - Smooth, Reduce, Mirror Cut, Mirror Geometry - Cleanup, Reducing the opology with different tools. Basic Materials - Lambert, Blin, Phong, Phong E, Anisotropic, Arnold Materials -								
Unit - II	Basic Materials - Lambert, Blin, Phong, Phong E, Anisotropic, Arnold Materials - Understanding -Diffuse - Specular - Transmission - Subsurface - Coat - Emission, 3D Texturing - Introduction to UV mapping and projections, UV Mapping - Cylindrical - Planar - Spherical - Automatic, Contour Stretch UV Editor tools - Cut tools - Sew tools Transformation tools on UV- Projected image -display types, Advance cut tools using UV, Edges, Face, Vertex, Shell UV Unfold - Cut UV edges, 3D UV grab tool-Exporting and importing UV to Photoshop or any Image editing software, bump map - normal map - displacement/height map.									
Unit - III	lighting -Spot lighting using with depth ma Point lighting	3d Lighting-Introduction to Maya default lighting -Product single lighting - Single point lighting -Spot light or directional light Environment lighting - Directional lighting spot lighting using photons and cluster lighting - Indoor lighting using different light sources with depth map shadows, Rasterize - Raytrace - Raycasting shadows Studio lighting - 3 Point lighting advance Arnold lighting - Indirect lighting - HDRI lighting environment - skydome physical sky.								
Unit IV	types of riggi with mesh, I Flare, Sine, S Linear handle	Rigging & Animation-Introduction types of rigging - Creating bone joints - IK and FK handles - Skinning, Constrain with mesh, Paint skin weightage, interactive bind skin - Deform - Nonlinear - Bend, Flare, Sine, Squash, Twist, Wave, Cluster, Time slider, Animation using Keyframe, Non Linear handles.								
Unit-V	Production Environment	Introduction to Render Engines - Render L settings and quality, Raytrace Depth, Sa, Motion Blur, Creating AOV's, Render pular & Multi Render passes for composting.	mplin	g, Adaptive	Sampling,					

- 1. Lanier, L. (2015). Advanced Maya texturing and lighting. John Wiley & Sons.
- 2. Clark, K. (2002). Inspired 3D character animation. Premier Press.
- **3.** Russo, M. (2006). *Polygonal modeling: basic and advanced techniques*. Jones & Bartlett Learning.
- 4. Woods, S. (2002). THE ANIMATOR'S SURVIVAL KIT. Film Ireland, (85), 28.
- **5.** Watkins, A. (2012). Getting Started in 3D with Maya: Create a Project from Start to Finish—Model, Texture, Rig, Animate, and Render in Maya. CRC Press.

Online Resources

- https://help.autodesk.com/view/MAYAUL/2023/ENU/
- https://www.youtube.com/@Autodesk Maya
- https://www.sdcpublications.com/Textbooks/Autodesk-Maya/291/

Course Outcome

CO-1	Attain proficiency in productive modeling techniques using Maya for diverse applications.	K1
CO-2	Develop skills in creating textures, optimizing UV layouts, and shader development.	K2&K3
CO-3	Develop a solid understanding of lighting and color principles and their practical implications.	K5&K6
CO-4	Develop a solid understanding of Rigging and Animation for Visual Effects.	K6
CO-5	Master digital lighting and rendering techniques using Maya, covering various aspects of lighting and rendering.	K6

Course Outcome VS Programme Outcomes

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

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

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

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

	III-Semester - Allied							
Allied 6	Course Code 82937	VEX Production II (31) for VEX) - Practical D (Credits: 2	Hours: 4			
Objectives	technique 2. Understa effects. 3. To under to create 4. Master th applicatio 5. Master d	igital lighting and rendering techniques using Mayand rendering.	pment lels wit	for realistic vehicles the perfect ana	visual tomy and eir practical			
		Students are required to create the following:						

Students are required to create the following:

- 1. Create a prop model with lights and turn table.
- 2. Create a Vehicle model with lights and turn table.
- 3. Create a Environment model
- 4. Create a interior set model
- 5. Create a portrait human head
- 6. Create a realistic human character
- 7. Light and render the given scene file.
- 8. Light the given model with appropriate maps, lights and render passes.
- 9. Rig and Animate a vehicle.
- 10. Rig and Animate a character walk cycle.
 - 1. Attain proficiency in productive modeling techniques using Maya for diverse applications.
 - 2. Develop skills in creating textures, optimizing UV layouts, and shader development.
 - 3. understand the anatomy for animation and to rig the models with perfect anatomy and to create industry level output

Outcomes

- Develop a solid understanding of lighting and color principles and their practical implications.
- 5. Master digital lighting and rendering techniques using Maya, covering various aspects of lighting and rendering.

Reference and Text Books:

- 1. Lanier, L. (2015). Advanced Maya texturing and lighting. John Wiley & Sons.
- 2. Clark, K. (2002). Inspired 3D character animation. Premier Press.
- 3. Russo, M. (2006). Polygonal modeling: basic and advanced techniques. Jones & Bartlett Learning.
- 4. Woods, S. (2002). THE ANIMATOR'S SURVIVAL KIT. Film Ireland, (85), 28.
- 5. Watkins, A. (2012). Getting Started in 3D with Maya: Create a Project from Start to Finish—Model, Texture, Rig, Animate, and Render in Maya. CRC Press

Online Resources

https://help.autodesk.com/view/MAYAUL/2023/ENU/

https://www.youtube.com/@Autodesk Maya

https://www.sdcpublications.com/Textbooks/Autodesk-Maya/291/

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

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

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

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

	IV-Semester -Core								
Core 8	Course code: 82943	Video Editing	Т	Credits: 4	Hours: 4				
Course Objectives	Master t editing t To broad manager Master c	 Master the fundamentals of working with different types of media and advanced editing tools To broaden critical and contextual awareness of project organization and file management. Master different video editing styles and techniques. 							
Unit - I	Overview of Image and Video file formats, codecs, and resolutions - Understanding video editing software interfaces - Exploring essential tools and functionalities -Basic editing techniques - Cuts & Transitions for Video Editing								
Unit - II	Working with different types of media (footage, audio, graphics, etc.)-Advanced editing tools (key framing, color correction, audio manipulation)-Green screen (chroma key) techniques and compositing. Video Effects -Multicam editing and synchronization.								
Unit - III	Project organization and file management best practices - Troubleshooting common issues and errors - Text Animation -Collaboration and teamwork in editing projects. Adding Audio tracks- Audio Effects.								
Unit IV	Documentary editing: storytelling through real-life footage -Music video editing: synchronization with music and visual storytelling - Commercial and promotional video editing: understanding client needs and branding-Narrative film editing: continuity, emotion, and pacing -Exploring other genres (e.g., vlogging, gaming content, educational videos).								
Unit-V	video editing (fr communication	Creating a professional demo reel and portfolio -Understanding different career paths in video editing (freelancing, post-production houses, etc.) - Networking and professional communication skills-Industry standards, trends, and emerging technologies - Legal and ethical considerations in video editing (copyright, fair use, etc.).							

- 1. Hekes, B. (2002). EDITING AND POST-PRODUCTION SCREENCRAFT. Film Ireland, (85), 28.
- 2. Chandler, G. (2004). Cut by cut: editing your film or video.
- 3. Jackson, W. (2016). Digital video editing fundamentals. Apress.
- **4.** Dmytryk, E., Lund, A., & Hurbis-Cherrier, M. (2018). On film editing: An introduction to the art of film construction. Routledge.
- **5.** Van Hurkman, A. (2014). Color correction handbook: professional techniques for video and cinema. Pearson Education.

Online Resources

https://www.youtube.com/@ZachKing

https://www.youtube.com/@filmriot

https://www.youtube.com/@FilmEditingPro

CO-1	Understand Image and Video file formats, codecs, and resolutions.	K1 & K4
CO-2	It allows us to master the fundamentals of working with different types of media and advanced editing tools	К3
CO-3	Understand project organization, file management and to troubleshoot common issues and errors	K4
CO-4	Allows students to master different video editing styles and techniques.	K5
CO-5	Allows students to develop proficiency in creating a professional demo reel and portfolio	K6

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

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

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

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

Core 9	Course code: 82944	VFX Production III (FX for VFX)	Т	Credits: 4	Hours: 4					
Course Objectives	 Attain proficiency in Interface & productive modeling techniques using Houdini. Develop proficiency in Houdini's volumetric techniques, covering SDF volumes, fog, smoke, and fire simulations using Pyrosolver, Gain proficiency in Houdini's POP network, exploring particle forces, custom forces, replication, advection, rendering, Gain proficiency in Houdini's Rigid Body stimulation. Master the fundamentals of Flip Fluids in Houdini, including basic simulations, Flip Tank setup, force integration, viscosity control, meshing, rendering, and creating realistic ocean effects. 									
Unit - I	Introduction and Interface of Houdini - Understanding Procedural workflow - Grouping-Attributes - Modeling Tools, Programming Basics, VEX Programming, Procedural Modeling, VOP, Material Network, Lighting, Camera, and Rendering.									
Unit - II	Volume And Voxels - SDF Volume - Clouds With Fog Volume - Smoke Simulation - Exploring Pyrosolver - Rendering Smoke - Creating Fire Simulation - Adding Sparks In Fire - Pyro Burst Source - Adding Smoke Trails - Rendering Explosion									
Unit - III	Intro To POP Network - Particles Forces - POP Axis And Curve Force - Custom Particles Forces - POP Replicate - Particles Advection - Rendering Particles - Setting Up Growth Attribute - Particle Simulation - Render Setup - Setting Up Grains - Activating Grains - Render Grains - Grains Soft Bodies									
Unit IV	Intro To Rigid Body - Setting Up Basic RBD Sim - Fracturing Geometry - RBD Cluster - 4. Boolean Fracture - RBD Activation - RBD Constraints - Vellum Basics - Vellum Soft Bodies - Vellum Pressure Constraint - Vellum Shape Match - Vellum Hair - Vellum Cloth Tearing - Vellum Brush - Vellum Grains									
Unit-V		Intro to Flip Fluids - Basic Flip Simulation - Flip Tank - Adding forces to the Fluids - Flip Viscosity - Meshing Fluid - Rendering Flip Fluids - Creating Ocean								

- 1. Xu, K., & Campeanuy, D. (2014, August). Houdini engine: Evolution towards a procedural pipeline. In *Proceedings of the Fourth Symposium on Digital Production* (pp. 13-18).
- 2. Cunningham, W., Bowmar, P., Iversen, J., & Johnson, D. (2006). The magic of Houdini. (No Title).
- 3. Saario, V. (2019). Visual Effects in SideFX Houdini.
- 4. Joiner, J. (2023). A Visual Breakdown of Astronomical Phenomena Using SideFX's Houdini.
- 5. Elkins, E. B. (2020). Simulating destruction effects in SideFX Houdini.

Online Resources

https://www.sidefx.com/learn/

https://www.appliedhoudini.com/

https://entagma.com/page/3/

CO-1	Students should be familiar with the Houdini interface, navigation, and basic functionality. This includes understanding the node-based workflow, parameter panes, and viewport controls	K1
CO-2	Students should gain proficiency in creating and manipulating particle systems, as well as understanding dynamics simulations. This could involve creating realistic fluid simulations, smoke and fire effects, or other dynamic simulations using Houdini's tools	
CO-3	Students should be able to create complex 3D models using procedural techniques in Houdini. This could include generating landscapes, architecture, or other assets procedurally, allowing for easy iteration and variation	K2
CO-4	Integration of Houdini into a broader VFX pipeline. Students should be able to export and import assets between Houdini and other software, as well as understanding the basics of compositing rendered elements in post-production.	K6&K4
CO-5	Encouraging creativity and problem-solving skills. Students should be able to apply their knowledge to solve unique challenges in 3D animation and VFX. This could involve creating custom effects, optimizing scenes, or tackling specific creative projects.	K6&K1

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

IV-Semester - Core							
Core 10	Course Code82945	Video editing & FX for VFX - Practical	P	Credits: 3	Hours: 5		
Objectives	a chosen 2. Edit a co features a 3. Shoot an chosen de 4. Develop atmosphe 5. Master th	a documentary film showcasing the cultural, culin city or town mpelling promotional video for a food item, focund appeal dedit a captivating travel video highlighting the estination. skills in visual effects by creating realistic strice effects like rain, snowfall, fog, as well as fire a e art of hair and fur simulation for character anim o create realistic and dynamic hair and fur movem	using of e beau mulation ation. U	on showcasing ty and exper ons. Explore ke simulation	g its unique iences of a ocean and		

- 1. Create a documentary film of a city or Town portraying cultural, food and Architecture.
- 2. Edit a promotional video for a food
- 3. Shoot and Edit a Travel video.
- **4.** Film and Edit an Event like Marriage, college culturals, Sports Event.
- 5. Create a ocean in FX
- 6. Create a atmospheric effects like Rain, Snowfall and Fog
- 7. Create a fire stimulation, Smoke Stimulation
- **8.** Create a building destruction effect for a building
- 9. Create a hair and fur stimulation for a character.
- 10. Create a cloth Animation for a character.
- 1. A portfolio showcasing the Editing skills and presentation skill.
 2. Demonstrating the Video Editing Skills for an Event.
 3. A Portfolio work showcasing the skills in Particle Effects stimulation.
 4. A Portfolio work showcasing the skills in Character Stimulation.
 5. Demonstrating the programming Skills used to create FX Stimulation

Reference and Text Books:

- 1. Saario, V. (2019). Visual Effects in SideFX Houdini.
- 2. Joiner, J. (2023). A Visual Breakdown of Astronomical Phenomena Using SideFX's Houdini.
- 3. Elkins, E. B. (2020). Simulating destruction effects in SideFX Houdini.
- **4.** Dmytryk, E., Lund, A., & Hurbis-Cherrier, M. (2018). On film editing: An introduction to the art of film construction. Routledge.
- **5.** Van Hurkman, A. (2014). Color correction handbook: professional techniques for video and cinema. Pearson Education.

Online Resources

https://www.sidefx.com/learn/

https://www.appliedhoudini.com/

https://entagma.com/page/3/

https://www.youtube.com/@ZachKing

https://www.youtube.com/@filmriot

https://www.youtube.com/@FilmEditingPro

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

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

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

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

		IV-	Semester	- Allied			
Allied 7		VFX Production Rotomation & CG Co		(Matchmove/ng)	Т	Credits: 3	Hours: 3
Course Objectives	 Introduce matchmoving fundamentals, covering 3D Equalizer, UI navigation, menu tabs, viewer tools, properties bin, track modes, and facilitating integration with Maya and other 3D applications Develop proficiency in object tracking for VFX, mastering techniques for accurately integrating computer-generated elements with live-action footage. Gain proficiency in rotomation for VFX, understanding its purpose, learn posing techniques, keyframe animation, geometry tracking, cleanup, and export processes Explore the essentials of CG compositing, covering lighting, exposure, shadows, reflections, Fresnel effect, multi-pass EXR with AOVs, channel manipulation, image reconstruction, CG grading, and the creation of realistic shadows and reflections Explore advanced rendering techniques in Houdini, encompassing Z Depth, Normals, ID Passes, CG imperfections, Atmospheric Fog, Projection Techniques, and efficient rendering workflows. 						
Unit - I	Introduction to match moving - Introducing to 3d equalizer - 3d Equaliser ui interface- Menu Tab and its uses —How to navigate using Viewer - Properties Bin - Tools - track modes - buer— bridge to maya or other Software applications.						
Unit - II		manual tracking- da mesh - correction - te					
Unit - III	animate -How to	rotomation -Purpose use geomentry track	- clean u	ıp- Export		•	,
Unit IV	Introduction to CG Compositing - Lighting - Exposure - Shadows - Reflections, Fresn				the image -		
Unit-V	Z Depth - Normals - ID Passes - Creating CG Imperfections - Atmospheric Fog - Projection Techniques - Render						

Reference and Text Books:

- Dobbert, T. (2006). Matchmoving: the invisible art of camera tracking. John Wiley & Sons.
- Hornung, E. (2013). The Art and Technique of Matchmoving: Solutions for the VFX Artist. Taylor & Francis.
- Brinkmann, R. (2008). The art and science of digital compositing: Techniques for visual effects, animation and motion graphics. Morgan Kaufmann.
- Lanier, L. (2012). Digital compositing with Nuke. Taylor & Francis.

Online Resources

https://www.youtube.com/@VFXTutors

 $\underline{https://mountcg.com/what-is-matchmoving-and-what-does-a-matchmove-artist-do/}$

https://www.youtube.com/@yogeshnagamwad9188

https://www.cgspectrum.com/blog/topic/compositing

https://www.youtube.com/@CompositingAcademy

Course Outcome

СО	1 7 8	K1
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CO-2	Attain proficiency in manual tracking, understanding data points, error graphs, image editing for tracking accuracy, mesh creation, correction methods, and successfully applying object tracking with camera assignment in other software applications.	K2
CO-3	Gain proficiency in rotomation by understanding its purpose, mastering pose creation and key framing, utilizing geometry tracks for animation, performing cleanup, and exporting the final result	K3&K 5
CO-4	Acquire comprehensive skills in CG compositing, covering lighting, exposure, shadows, reflections, Fresnel effects, multi-pass EXR workflows, AOVs, channel manipulation, image reconstruction, grading, and the creation of realistic shadows and reflections."	K4
CO-5	Attain expertise in Houdini rendering by achieving outcomes such as mastering Z Depth, Normals, ID Passes, creating CG imperfections, implementing Atmospheric Fog, employing Projection Techniques, and optimizing the overall rendering process	K6

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

S–Strong (3), M-Medium (2), L-Low (1)

IV-Semester - Allied

	Allied 8	Course Code 82947 VFX Production IV (Matchmove /Rotomation & Credits: 2 Hours: 4
-	Objectives	 Realistic integration ensures that viewers perceive the CG elements as natural parts of the scene, enhancing the overall believability of the visual effects. Accurate alignment is crucial for maintaining consistency between the CG and live-action elements, preventing visual discrepancies that could distract the audience. Smooth motion and timing ensure that the CG elements integrate seamlessly, preventing jarring or unnatural movements that could detract from the overall quality of the visual effects. Realistic lighting and shadows enhance the integration of CG elements, making them appear as if they exist within the same environment as the live-action elements. Ultimately, the success of match move and rotomation in VFX is measured by their ability to support the storytelling goals of the project. The seamless integration of CG elements allows filmmakers to convey their narrative vision without distraction or disruption.
		Students are required to create the following:

- 1. Basic Camera Tracking: Track the camera movement in a simple live-action shot, ensuring accurate and stable tracking points.
- 2. Object Tracking: Track the movement of a specific object within a scene, allowing for the integration of a 3D element.
- 3. Camera Solve for 3D Scene: Perform a camera solve for a more complex scene, ensuring the 3D environment matches the live-action footage.
- 4. Refining Tracks: Refine and optimize tracking points for better accuracy and reliability in challenging shots.
- 5. Adding 3D Objects to Tracked Scene: Integrate a 3D object into a tracked live-action scene, adjusting its position and scale to match the environment.
- 6. Basic Rotomation: Rotomate a simple 3D object to match the movement of a live-action element, such as a person walking.
- 7. Object Interaction: Rotomate a 3D object to interact with a live-action object, like a virtual hand picking up a real object.
- 8. Character Integration: Rotomate a 3D character into a live-action scene, ensuring proper alignment with the environment and other elements.
- 9. Lip Sync Rotomation: Rotomate the movement of a character's mouth to match a provided audio track for lip sync.
- 10. Camera Shake Integration: Rotomate 3D elements to match the camera shake or jitter in a live-action shot for added realism
- 1. The 3D elements seamlessly blend with the live-action footage, creating a visually convincing result. 2. The 3D elements precisely align with the movements and perspective changes of the liveaction camera or objects.
 - 3. The motion of the CG elements matches the timing and fluidity of the live-action movements, creating a smooth and cohesive visual experience.
 - 4. The CG elements exhibit realistic lighting and cast shadows consistent with the lighting conditions of the live-action scene.
 - 5. The matchmove and rotomation contribute to the effective communication of the narrative, enhancing the storytelling aspect of the visual effects.

Reference and Text Books:

Outcomes

Dobbert, T. (2006). Matchmoving: the invisible art of camera tracking. John Wiley & Sons.

Hornung, E. (2013). The Art and Technique of Matchmoving: Solutions for the VFX Artist. Taylor & Francis.

Online Resources

 $\frac{https://openvisualfx.com/2019/10/04/matchmoving-by-hand/}{https://www.hollywoodcamerawork.com/tracking-plates.html}$

Course Outcome VS Programme Outcomes

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		V-Semester- Core			
Core 11	Course Code 82951	Business of Media	Т	Credits: 4	Hours:5
Objective	busines: 2. Explore their pro 3. Examin includir governr 4. Introduction analysis external 5. Importation Responsi	organizational structures, their significance, kes and cons. e stakeholders, their influence, types (internal ag owners, managers, employees, customers, senent. etion to Business Studies, covering business of human resources, production/operations manifuences, market structures, and economics nee of Communication, Business Structure, Ensibility.	and externa uppliers, co ojectives, st nagement, a	arious approaul), and charac mmunity, and rategy, marke ccounting/fina ship Theories	ches, and eteristics, l ting, market ance,
UNIT-I	Types of Business Organisation – Private Sector and Public Sector – Firms in the Private sector – Key Differences – Co-operatives – Franchises – Not for Profit Businesses.				
UNIT-II	Business - Pr	Structures – Importance of Structure – K os and Cons of Different Structures – Func ty – Organisation by Area – By Customer – B	ctional Stru		
UNIT-III	Stakeholders	 Pressures on Business - Types of State Characteristics of Stakeholders - Owners Staff - Customers - Suppliers - Comm UNITY 	and Shar	eholders – N	
UNIT-IV	Analysis – M Production/Op Structures – M	o Business Studies – Business Objectives an arketing Strategy – Market Research – Marketarions Management – Accounting and Final facro and Micro Economics.	keting Mix nce – Exter	– Human R mal Influence	esources – s – Market
UNIT-V		munication – Importance of Communication ommunication.	n – Forms	of Business S	Structure –

Reference and Text Books:

- 1. Alexander, A., Owers, J. E., Carveth, R., Hollifield, C. A., & Greco, A. N. (Eds.). (2003). *Media economics: Theory and practice*. Routledge.
- 2. Doyle, G. (2013). Understanding media economics. *Understanding Media Economics*, 1-232.
- 3. Resnik, G., & Trost, S. (1996). All you need to know about the movie and TV business. Simon and Schuster.
- 4. Harrington, J. (2017). Best Business Practices for Photographers. Rocky Nook, Inc..
- 5. Picard, R. G. (2011). The economics and financing of media companies. Fordham Univ Press.

Online Resources

https://mediashift.org/

https://www.youtube.com/watch?v=GFgFhsfKc_0

Course Outo	comes Knowledge 1	evel
CO-1	Attain a foundational understanding of different types of Business Organisation	K1
CO-2	Acquire an understanding of organizational structure in the business by explaining the norms in the organization which will not stress the employees but give more productivity.	K2
CO-3	Gain proficiency in creating effective ways to decrease the pressure on the employees.	K4
CO-4	Understanding Business Studies through Objectives, Strategy, Market Analysis, Marketing Strategy and Market Research.	К3
CO-5	Attain understanding on communication in the organization.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	S(3)	M(2)	M(2)	S(3)	M(2)	M(2)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	L(1)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	L(1)	M(2)	M(2)
CO4	L(1)	M(2)	L(1)	M(2)	M(2)	L(1)	S(3)	L(1)	M(2)	M(2)
CO5	L(1)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2
W.AV	1.2	2.2	2	2.2	2.6	2	2.4	1.2	2	2.4

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	S(3)	S(3)	L(1)
CO2	S(3)	M(2)	S(3)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	S(3)	L(1)
CO4	L(1)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.2	2.2	2.6	2.8	2

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

Core 12	Course Code82952	Portfolio & Presentation — Credits: A Hours						
	1. Equip st	tudents for effective portfolio creation and pres	sentation.					
	2. Equip st	tudents with the skills to create and present eff	ective digital	portfolios.				
Objective	Prepare	students for professional portfolio presentation	ns in theater,	TV, and film,				
Objective	emphasi	zing presentation techniques and format requi	rements.					
	Underst	and the skills to create, use, and analyze marke	eting medium	is effectively.				
	5. effective	e portfolio maintenance, design, publishing, ar	nd enhanceme	ent strategies.				
	Basics of Port	folio; Importance of portfolio - Elements in I	Portfolio - Ty	pes of Portfol	io - The			
UNIT-I	Effective Showcase - Development Techniques - Portfolio requirements - Portfolio							
	Development '	Гесhniques Do's and Don'ts.						
	Introduction to	the Digital Portfolio - The Effective Digital	Showcase – 1	Production Tec	chniques			
UNIT-II	_	ment -, Different stages of digital media of the	eir specializat	ion Digital 1	Portfolio			
	Do's and Don't	Do's and Don'ts.						
UNIT-III	Professional Profe	resentation skills - Presentation Format and re-	quirements.					
	Marketing: Business Cards - Blog and Web pages - Importance of Business Cards, Blog and							
UNIT-IV	Web pages - Design and development of Business Cards, Blog and Web pages - Market							
	analysis for using medium of marketing - Introduction to social networking and its importance.							
	Portfolio Mair	tenance - Components of a Portfolio - Audie	nce, Tone, Ra	ange Format, l	Portfolio			
UNIT-V	Guidelines - l	Portfolio Design - Portfolio Budget and Des	adline planni	ing – Publishi	ng your			
	portfolio - Por	tfolio enhancement.	_					

Reference and Text Books:

- 1. Adler, L. (2013). Creative 52: Weekly Projects to Invigorate Your Photography Portfolio. Peachpit Press.
- 2. Jaen, R. (2012). Developing and Maintaining a Design-Tech Portfolio: A Guide for Theatre, Film & TV. Routledge.
- 3. Eisenman, S. (2006). Building design portfolios: innovative concepts for presenting your work. Rockport Publishers.

Course Outo	comes Knowledge le	vel
CO-1	Define and demonstrate the importance of portfolios and Identify key portfolio elements and types.	K1
CO-2	Develop the significance of digital portfolios	K3&K6
CO-3	Demonstrate effective professional presentation skills.	K4
CO-4	Students will develop marketing materials, understand their importance, and harness social networking for success.	K4 & K6
CO-5	Develop, maintain, design, and publish portfolios with audience-focused content and adhere to guidelines.	K2&K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)
CO3	L(1)	M(2)	S(3)	M(2)	S(3)	S(3)	S(3)	L(1)	M(2)	M(2)
CO4	L(1)	M(2)	L(1)	M(2)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)
CO5	L(1)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	M(2
W.AV	1.2	2.2	2	2.2	2.2	2.6	2.8	1.2	2	2.4

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

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	L(1)	M(2)	L(1)	L(1)
CO2	S(3)	M(2)	S(3)	M(2)	S(3)
CO3	M(2)	L(1)	M(2)	M(2)	L(1)
CO4	L(1)	L(1)	L(1)	M(2)	M(2)
CO5	M(2)	L(1)	S(3)	L(1)	S(3)
W.AV	2.2	1.2	2.2	1.6	2

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

DSE 1	Course Code 82953A	82953A Compositing - 1.Rotoscopy P			
Objectives	2. Understa	op proficiency in Rotoscopy nd segments in rotoscopy stand the character breakdowns and perfection in	rotoscop	by	

- 1. Rotoscope a simple object or character from live-action footage to understand the fundamentals of tracing and timing.
- 2. Rotoscope a character with varied motion, such as walking, running, or dancing, to practice capturing different movement patterns.
- **3.** Rotoscope a scene with intricate details, like flowing hair or complex clothing, to refine your skills in handling fine elements.
- **4.** Rotoscope a character or object and remove the background, replacing it with a new one to practice isolating elements effectively.
- **5.** Rotoscope a character or object shot against a green screen and integrate it into a new background, paying attention to edge quality.
- **6.** Rotoscope a character interacting with a particle system (smoke, fire, water), ensuring realistic integration and movement.
- 7. Rotoscope fast-moving objects with motion blur, ensuring that the blur aligns with the speed and direction of the motion.

Outcomes	 Will relate and understand the techniques and concepts involved in Composting Will be able to extract the Alpha channel using Rotoscopy Technique. Will understand the importance of tracking which makes the vfx shot more realistic and visually appealing.
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СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	L(1)
CO2	M(2)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)
CO3	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)	S(3)
W.AV	2.2	2.6	2.8	2	2.2	2.2	2. 6	2.2	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

DSE 1	Course Code 82953B	Compositing 2.Keying	P	Credits: 4	Hours: 5
Objectiv	footage v 2. Understa seamless 3. Demons different 4. Gain pra employin 5. Acquire	proficiency in accurately and efficiently keying out using industry-standard software. Indicate and apply advanced techniques for refining and ely integrate them into VFX compositions. In the adeptness in handling various types of footage, scenarios and challenges. In the accitance in troubleshooting common keying a strategies to achieve high-quality results. It knowledge of keying principles, including color the cont, to create realistic and professional VFX compositions.	master g issue	ring keyed elering the art of	ements to f keying for
		Students are required to create the following:			

- 1. Start with a simple green screen shot and replace the background with a static image or video
- 2. Replace the green screen with a complex or dynamic background, ensuring proper lighting and color matching
- 3. Chroma key a shot with a subject with fine details like hair, focusing on maintaining realistic transparency and avoiding color spill
- 4. Composite a subject shot on a green screen interacting with virtual elements (e.g., picking up a digital object)
- 5. Composite a subject onto a surface that reflects elements of the virtual background, paying attention to realistic reflections
- 6. Work with a green screen shot that involves dynamic camera movement, ensuring the keyed subject matches the motion of the virtual background
- 7. Create a composite where the subject interacts with both the foreground and background elements simultaneously, such as reaching out of a window
- 8. Key a subject shot outdoors against a green screen and replace the background with a different outdoor scene, paying attention to natural lighting variations
- 9. Refine the matte edges of the keyed subject to achieve a cleaner and more natural integration with the new background
- 10. Key a subject shot during the day against a green screen and place it in a nighttime virtual scene, adjusting lighting and shadows accordingly

	1. Versatile Background Replacement: Chroma keying enables the substitution of a specific
	color (typically green or blue) with alternate backgrounds, providing flexibility to set
	scenes in various locations, timeframes, or imaginary worlds.
	2. Seamless Integration of Visual Elements: It facilitates the seamless integration of CGI
	elements into live-action footage, allowing for the inclusion of fantastical creatures,
	futuristic environments, or any digitally created content.
	3. Complex Scene Creation: Chroma keying enables the composite creation of complex
Outcomes	scenes by combining multiple shots or performances in front of the green or blue screen,
Outcomes	resulting in visually captivating sequences.
	4. Isolation of Foreground Elements: It allows for the isolation of specific foreground
	elements like actors, props, or objects, enabling independent manipulation or enhancement
	separate from the background.
	5. Real-Time Visuals in Broadcasting: In live broadcasting, chroma keying facilitates real-
	time insertion of backgrounds or graphical elements behind presenters or performers,
	enhancing visual storytelling and engagement.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	M(2)	S(3)	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)
CO2	M(2)	S(3)	S(3)	M(2)	S(3)	S(3)	M(2)	M(2)	S(3)	M(2)
CO3	S(3)	M(2)	S(3)	S(3)	S(3)	S(3)	S(3)	M(2)	M(2)	S(3)
CO4	M(2)	S(3)	S(3)	M(2)	S(3)	M(2)	M(2)	S(3)	M(2)	M(2)
CO5	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)
W.AV	2.6	2.4	2.8	2.2	2.8	2. 6	2.2	2.2	2.4	2.6

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

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	S(3)	S(3)	M(2)
CO2	M(2)	M(2)	S(3)	S(3)	M(2)
CO3	M(2)	S(3)	S(3)	S(3)	S(3)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	M(2)
W.AV	2.4	2.2	2.6	2.8	2.2

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

DSE 1	Course Code 82953C	Compositing 3.Tracking		Credits: 4	Hours: 5
Objectives	seamlessi 2. Master the movement of the moveme	nd the principles and techniques of camera tracking y into live-action footage. e use of tracking software tools to accurately match and perspective of a filmed scene. proficiency in solving tracking challenges such as o distortion. vanced tracking methods for complex shots, includit onditions. quired knowledge to create convincing visual effect with live-action footage in a professional workflow	virtua bject o ng mo	al objects to the occlusion, ref	he lections, varying

- 1. Track the movement of a simple object within a scene, ensuring accurate and consistent tracking throughout.
- 2. Perform planar tracking on a flat surface within a shot, such as a wall or table, and overlay a graphic or text onto it.
- **3.** Track the camera movement in a shot to integrate 3D elements into the scene, such as adding a virtual object that moves with the camera.
- **4.** Integrate motion-captured data onto a live-action character or object in the scene, ensuring proper alignment and timing.
- **5.** Track a moving object within a scene and make a virtual element (like a CG character or object) interact convincingly with it.
- **6.** Track facial features in a shot and apply facial animation data or augment the face with virtual elements.
- 7. Track a scene with significant foreground and background parallax, ensuring accurate tracking for both planes.
- **8.** Track the movement of a device screen within a shot and replace it with a tracked video or graphic.
- **9.** Track a shot with noticeable lens distortion and apply correction techniques to align virtual elements accurately.
- **10.** Track the camera movement in a live-action shot and integrate it into a virtual set, ensuring realistic interaction between the live and virtual elements.

	1. Object and Camera Tracking: It enables precise tracking of objects or camera movement within a scene, ensuring accurate placement and interaction of digital elements.
	2. Seamless Integration of CGI: Tracking assists in seamlessly integrating CGI elements into live-action footage by matching their movements with the camera, creating convincing and
	realistic visual effects. 3. Motion Capture for Animation: Tracking aids in capturing real-world movements for
Outcomes	animation purposes, allowing for lifelike character movements or realistic motion sequences.
	4. Stabilization and Enhancement: It helps stabilize shaky footage, improving visual quality, and allows for enhancements like adding motion blur or adjusting lighting to match the scene.
	 Augmented Reality (AR) and Virtual Set Extensions: Tracking facilitates AR applications and virtual set extensions by accurately placing digital objects or extending physical sets with digital elements in real-time or post-production.

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

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

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

S–Strong (3), M-Medium (2), L-Low (1)

DSE 2	Course Code82954A	CGI for Visual Effects - 1.Modelling & Texturing		Credits: 4	Hours: 5
Objectives	visually of 2. Master and represent 3. Develop 4. Apply lig 5. Learn income.	proficiency in UV mapping and unwrapping to efficient hiting and shading principles to enhance textures and ustry-standard software to execute modeling and tental workflow.	face deficiently	etailing and retexture 3D mg depth to 3D	material nodels. models.
		Students are required to create the following:			

- 1. Model a simple everyday object, like a mug or a chair, paying attention to accurate proportions and details.
- 2. Create a low-poly character model with basic features, focusing on proper topology for animation.
- **3.** Model a small indoor or outdoor scene, including furniture or natural elements, and ensure proper scale and realism.
- **4.** Model a vehicle of your choice, such as a car or spaceship, emphasizing clean geometry and accurate proportions.
- **5.** Model a building or architectural structure, incorporating details like doors, windows, and realistic textures.
- **6.** Sculpt and model an organic form, like a tree or a rock, to practice creating natural shapes and textures.
- 7. Unwrap the UVs of a model efficiently, ensuring minimal distortion and proper utilization of texture space.
- **8.** Paint textures for a simple object or character, considering color, specular, and normal maps for added realism.
- **9.** Experiment with procedural textures to create surfaces like wood, metal, or marble without relying on image textures.
- **10.** Set up a physically based rendering (PBR) material system for a model, incorporating base color, roughness, metallic, and normal maps.

	1. Accurate Object Representation: Modeling involves creating 3D models of objects,
	characters, environments, etc. It allows for accurate representation, detailing, and
	structuring of various elements within a virtual space, ensuring authenticity and realism.
	2. Realistic Surface Detailing: Texturing enhances 3D models by applying detailed surface
	textures, colors, and materials. This process adds depth, realism, and visual richness to the
	objects, making them more lifelike and engaging.
	3. Efficient Resource Utilization: Optimized modeling and texturing workflows contribute to
	efficient resource utilization in terms of memory and rendering. Well-crafted models and
Outcomes	textures ensure smoother performance and quicker rendering times, especially in complex
	scenes.
	4. Enhanced Visual Aesthetics: Texturing allows for the creation of visually appealing and
	compelling visuals. By adding intricate details, bumps, scratches, reflections, and other
	surface characteristics, models become more aesthetically pleasing and believable.
	5. Interchangeable Assets for Various Platforms: Properly modeled and textured assets are
	versatile and can be utilized across multiple platforms, such as video games, films,
	animations, and virtual reality experiences. They can adapt to different requirements while
	maintaining quality and consistency.

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

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

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S(3)	M(2)	M(2)	S(3)	M(2)
CO2	M(2)	S(3)	M(2)	S(3)	S(3)
CO3	M(2)	M(2)	S(3)	S(3)	S(3)
CO4	S(3)	M(2)	M(2)	S(3)	M(2)
CO5	M(2)	M(2)	M(2)	M(2)	S(3)
W.AV	2.4	2.2	2.2	2.8	2.6

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

DSE 2	Course Code 82954B	CGI for Visual Effects - 2.Lighting & Rendering	P	Credits: 4	Hours: 5
Objectives	create a l sources, the view 2. Emphasi and atmodifferent effects. 3. Highligh scene, er intricacie viewer. 4. Optimizi Achievir Techniqu settings l 5. Consiste maintain	and Immersion: The primary goal is to replicate real believable and immersive environment. This involve shadows, reflections, and global illumination to maker. Zing Mood and Atmosphere: Lighting contributes sing sphere of a scene. It can evoke emotions and enhance color temperatures, intensities, and positioning to creating Object Details: Effective lighting highlights the apphasizing textures, shapes, and details of objects. The softhe 3D models, making them visually appealing the such as efficient use of global illumination, optimizely in achieving this balance. The such as efficient use of global illumination, optimizely in achieving this balance. The such as efficient use of global illumination, optimizely and Cohesiveness: Ensuring consistency in light as coherence and believability. Lighting should be contained as consistent mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient mood and aesthetic across of the such as efficient models.	gnificate store at a dispersion of the dispersion of the store at a dispersion of the store at a disper	antly to setting yetling by user amatic or surtant aspects owcases the conderstandable and qualitatimes is a key shaders, and roughout the tawith the scenario of the conderstandable and qualitatimes is a key shaders.	al light convincing to g the mood sing btle of the depth and de to the y is crucial. y objective. render scene ne's
1		Students are required to create the following:			

- 1. Create a three-point lighting setup for a simple scene, ensuring proper placement of key, fill, and rim lights.
- 2. Illuminate an interior scene, paying attention to the color temperature of light sources and shadows.
- 3. Light an outdoor scene as if it were illuminated by daylight, considering the direction of sunlight and atmospheric effects.
- 4. Set up lighting for a night scene, balancing artificial light sources and creating a convincing moonlight effect.
- 5. Light a product (e.g., a simple object or a piece of furniture) to showcase its form and texture effectively.
- 6. Familiarize yourself with Maya's render settings and render a simple scene with default settings.
- 7. Utilize render layers and passes to separate elements (e.g., beauty pass, shadow pass) for better post-production control.
- 8. Implement depth of field in a scene to simulate realistic camera focus, emphasizing certain elements.
- 9. Apply motion blur to a scene with moving objects or a camera, ensuring a realistic representation of motion.
- **10.** Experiment with Final Gather and Global Illumination settings to achieve realistic lighting and indirect illumination.

1. Realistic Visuals: Effective lighting techniques contribute to creating lifelike and realistic scenes by accurately simulating how light interacts with various surfaces, materials, and environments.

- 2. Enhanced Mood and Atmosphere: Thoughtful lighting design influences the mood and atmosphere of a scene, setting the tone and evoking emotions by using different lighting styles, colors, and intensities.
- 3. Detail and Texture Highlighting: Proper lighting highlights textures, details, and intricacies within 3D models, bringing out depth and surface characteristics to make objects look more tangible and appealing.
- 4. Visual Clarity and Depth: Well-executed lighting enhances the perception of depth and dimension within a scene, emphasizing the foreground, midground, and background elements to create a sense of space and immersion.
- 5. Final Image Quality: Rendering, the process of generating the final 2D image or animation from the 3D scene, involves lighting calculations, shading, and texturing to produce high-quality, photorealistic outputs suitable for films, games, or visual presentations.

Course Outcome VS Programme Outcomes

Outcomes

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S(3)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	L(1)
CO2	M(2)	M(2)	S(3)	M(2)	S(3)	S(3)	S(3)	S(3)	S(3)	S(3)
CO3	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	S(3)						
W.AV	2.4	2	2.6	2	2.2	2.2	2.8	2. 6	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		V-Semester - DSE 2			
DSE 2	Course Code 82954C	CGI for Visual Effects - 3.Rigging & Animation	P	Credits: 4	Hours: 5
Objectives	articulation realistically. 2. Natural Morensuring that intended act. 3. Facial Expresemotions and simulations. 4. Efficient Conteasily manifer efficiency. 5. Fluid and Establishment.	vement and Biomechanics: Rigging aims to mime at characters or objects move naturally and belie ions. ession and Emotion: Creating complex facial right dexpressions, enhancing character depth and story and the story of the st	nd man nic real vably as as and ytelling as with lis move niques lity, move	l-world physicaccording to animation syg in animated in rigs that all vement, imports to bring characters.	acters or objects ics and anatomy, their design and estems to convey films, games, or flow animators to roving workflow racters to life by
		Students are required to create the following	Σ:		

- 1. Create a basic joint chain for a character's limb, such as an arm or leg, focusing on proper orientation and hierarchy.
- 2. Set up an IK/FK switch for a character's arm or leg, allowing seamless switching between Inverse Kinematics and Forward Kinematics.
- 3. Implement stretchy limbs in the rig to allow for natural deformation during animation, especially useful for cartoon characters.
- 4. Rig a spine with both FK and IK controls, ensuring smooth deformation and flexibility for animation.
- 5. Create a facial rig with controls for facial expressions, including features like blinking, smiling, and eyebrow movement.
- 6. Animate a simple walk cycle for a character, focusing on weight distribution, leg movement, and natural
- 7. Animate a character performing lip sync for a short piece of dialogue, syncing mouth movements with speech.
- 8. Animate a character expressing a range of emotions (happy, sad, angry) to practice conveying emotions through movement.
- 9. Animate the movement of a character's hair in response to different actions or environmental factors.
- 10. Animate a character interacting with a prop, such as picking up an object or opening a door

	1.	Character Rigging for Articulation: Rigging involves creating digital skeletons and controls for characters or objects, enabling animators to articulate movements realistically. It allows for precise control over joints, muscles, and deformations.						
	2.	Naturalistic Animation: Rigging supports the creation of natural and expressive animations by providing animators with tools to manipulate characters' movements, facial expressions, and gestures, bringing them to life with authenticity.						
Outcomes	3. Mechanical Rigging for Objects: Apart from characters, rigging also applies to no elements, like vehicles, machines, or props, allowing for the realistic simulation of movements or interactions.							
	4.	Procedural Animation and Simulations: Rigging can involve setting up procedural animation systems or simulations, enabling automated or physics-based movements, such as cloth simulations, fluid dynamics, or dynamic hair/fur.						
	5.	Efficiency and Workflow Enhancement: A well-structured rig can streamline animation workflows, allowing animators to focus more on creativity and less on technical limitations. Rigging pipelines that optimize efficiency contribute significantly to project timelines and quality.						

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

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

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

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

DSE 3	Course Code 82955A	Matchmove & Rotomation - 1. Camera tracking	P	Credits: 4	Hours: 5						
Objectives	 enhancing immersion. 4. Seamless Scene Continuity: Camera tracking helps maintain continuity between different shots or scenes, ensuring consistent camera movements for smooth transitions. 5. Efficient Compositing: The goal is to streamline the compositing process by accurately tracking the camera, allowing for efficient integration of VFX elements into the live-action footage. 										
		Students are required to create the following									
the ca and co 2. Incorp convilightin 3. Utiliz an exp and potential trackets 5. Tackl tracking	omposite a 3D ob porate a 3D mode porate a 3D mode porate a 3D mode porate a 3D mode energy follows the energy follows, and e camera tracking pansive environment erspective and matchmove and object, ensuring e a challenging slang to capture the	a specific feature or object in a moving scene. a specific feature or object in a moving scene. It is accurate alignment and movement synchronizate that with dynamic camera movements, such as a intricate details of the camera's motion and us	he real-vertracking with the geometry ction to Integrate from throughan, tilt,	world camera Ensure the live footage, y, creating the achieve realise CGI elements and the sheet or zoom. Ap	a movement, 3D element considering e illusion of stic parallax nts onto the ot. pply camera						
Outcomes	computer with the computer with the computer with the computer with the computer and the computer of the compu	Integration of CG Elements: Camera tracking regenerated elements into live-action footage, examera's movement, perspective, and lighting. Scene Reconstruction: It allows for the reconstruction of the movement and position of the camera, examers. Compositing: Camera tracking facilitates dynament of the camera, enabling seamless blending of allowing filmmakers to explore various angles	nsuring ction of reating nic comp lifferent irtual ca or persp ures pre	Table 3D scenes by realistic back positing by nashots or elementary movements are the scise integration.	y accurately kgrounds or natching the nents within ments in 3D out physical on of visual						

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

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

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

S–Strong (3), M-Medium (2), L-Low (1)

DSE 3	Course Code82955B	Matchmove & Rotomation - 2. Object Tracking	P	Credits: 4	Hours: 5					
Objectives	movement of digital elements in relation to the real-world environment, ensuring a seamless blend of CGI with live-action footage. 2. Enhanced Visual Realism: It seeks to enhance visual realism by accurately matching the movements of digital objects or characters to the movements of the camera or physical elements in the scene. 3. Precise Integration of CGI: Object tracking enables the precise integration of computer-generated imagery (CGI) into live-action sequences, allowing digital elements to interact convincingly with the environment and characters. 4. Dynamic Scene Composition: It enables the creation of dynamic scene compositions by tracking and positioning virtual elements accurately, allowing for intricate and layered visual effects in complex sequences. 5. Seamless Interaction and Continuity: Object tracking ensures seamless interaction between live-action and digital elements, maintaining continuity throughout the scene and delivering a cohesive visual narrative. Students are required to create the following:									
Moch 2. Track or tex 3. Repla match 4. Perfor live-a 5. Utiliz move	 Students are required to create the following: Track a single point or feature in a live-action shot using tracking software (e.g., Nuke, After Effects, or Mocha). Apply the tracked data to a null object or a simple graphic element to ensure accurate tracking. Track a planar surface, such as a wall or tabletop, in a video clip. Integrate a computer-generated image or text onto the tracked surface, adjusting for perspective changes and occlusions Replace a real-world object in a video clip with a 3D model. Track the motion of the original object and match the lighting and shading of the 3D model to the live-action scene Perform a camera track on a complex shot with camera movement. Integrate a 3D object or scene into the live-action footage, ensuring that the virtual elements align seamlessly with the camera's motion. 									
Outcomes	computer scene's dy 2. Realistic particles the scene 3. Dynamic films, corrobjects w 4. Precise Mallowing 5. Character accurately	Integration of CGI Objects: Object tracking allows generated objects into live-action footage, ensuring mamics convincingly. Visual Effects: It enables the addition of visual effects that interact realistically with the tracked objects, expendicularly of the videos, ensuring accurate positioning ithin the scene. Iotion Analysis: It provides accurate motion analyst for the overlay of graphics or data that follow athles a Interaction and Animation: Object tracking aids in a placing animated characters or objects within a sen in with the environment or other elements.	g their ects such amic p amic p and m is for s etes' mon charan	ch as explosion the overall roduct placen ovement of be sports broadcap ovements accorder animation	ons, fire, or I realism of ments in oranded mests, urately.					

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

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

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

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

DSE 3	Course Code	Matchmove & Rotomation -		Credits: 4	Hours: 5
DSE 3	82955C	3. Rotomation	P		
 a. Roward 2. Ob a. Ro 3. Ch a. Ro oth 4. Lip a. Ro 5. Ca 	world mov seamlessly. 2. Integration characters movement 3. Enhanceme incorporating elements. 4. Seamless Integration sequence of action elements. 5. Consistency sequence of action elements. sic Rotomation: stomate a simple 3 alking. oject Interaction: stomate a 3D object laracter Integration of the sequence of	of CGI with Live Action: Rotomation aims to or objects into live-action scenes realistically and interaction. Int of Visual Realism: It strives to enhance the lifelike movements, expressions, and gesture atteraction: Rotomation ensures a seamless interaction and Continuity: It aims to maintain consistence film by accurately animating digital elements to ents, avoiding discrepancies or discontinuities. Students are required to create the following: Dobject to match the movement of a live-action elect to interact with a live-action object, like a virtual in the content of a live-action scene, ensuring proper align and content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of a character's mouth to match a provided and the content of the conte	integ, mainte visus into on betway and match	rate computer nate computer nate computer nate and realism of animated characteristics which are not investigated as a perior of the continuity of the movements within a continuity of the movements with the environments with the environments.	ion footage er-generated sistency in of VFX by haracters or ors and CGI scene. Aroughout a ents of live-rson eal object.
Outcomes	movemer CGI char 2. Precise C action ob 3. Dynamic cameras v the CGI a 4. Complex live-actio allowing 5. Enhanced the creat	Character Animation: Rotomation allows for the state by animating over live-action footage, providing acters. Object Interaction: It enables accurate interaction be jects or actors within a scene, ensuring seamless in Camera Matching: Rotomation assists in match with the original camera movements, ensuring construction elements. Scene Reconstruction: It facilitates the reconstruct in footage as a base for adding digital enhancement for intricate and visually stunning sequences. Visual Storytelling: Rotomation contributes to ention of visually engaging sequences, expanding itals, and other visual media.	etween tegrationing the sistency ion of onts, ba	chenticity and CGI element on and realist e movement y and coherer complex scenackgrounds, of a storytelling	I realism to ts and live- ic physics. s of virtual ace between tes by using or elements, by enabling

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	--

CO1	M(2)	S(3)	M(2)	M(2)	L(1)	S(3)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	S(3)	S(3)						
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	S(3)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	1.2	2.2	2	2.2	2.4	2

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

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

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

		V-Semester - Core			
Core 13	Course Code 82956	Portfolio & Presentation - Practical	P	Credits: 2	Hours: 4

Curate a portfolio showcasing a range of multimedia projects, demonstrating versatility and expertise Incorporate consistent branding elements to establish a recognizable and professional personal identity. Highlight key achievements and successful projects to demonstrate skills, experience, and Objectives Include interactive elements, such as clickable links and engaging content, to captivate and impress viewers. Feature endorsements and recommendations to build credibility and showcase positive professional relationships. 1. Curate a portfolio showcasing a range of multimedia projects, demonstrating versatility and expertise 2. Incorporate consistent branding elements to establish a recognizable and professional personal identity. 3. Highlight key achievements and successful projects to demonstrate skills, experience, and impact 4. Include interactive elements, such as clickable links and engaging content, to captivate and impress viewers. 5. Feature endorsements and recommendations to build credibility and showcase positive professional relationships.

Outcomes

- > Produce a portfolio that, demonstrates understanding and articulation, through
- > drawings, concepts sketches, design documents and presentation an understanding of
- > the design elements of the medium of their specialization.
- > Develop Game that, will demonstrate the critical aspects of development as a media
- > professional in the medium of specialization.
- > Respond effectively to questions following oral presentation.

Course Outcome VS Programme Outcomes

CO PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO

CO1	M(2)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	L(1)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)
CO4	S(3)	M(2)								
CO5	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	2.2	2.2	2	2.6	2.4	2

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

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

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

VI -Semester- Core								
Core 14	Course Code82961	Project Management	Т	Credits: 3	Hours:4			

design and media contexts. 2. Apply techniques to effectively plan and initiate design and media projects, including scoping, scheduling, and resource allocation. 3. Execute and monitor design and media projects by managing communication, stakeholders, risks, quality, and performance. 4. Utilize various tools and methodologies, such as project management software, time management techniques, Agile methodologies, and collaboration platforms, in creative project management. 5. Evaluate, conclude, and document design and media projects while assessing success, gathering lessons learned, and preparing for future continuous improvement Unit 1: Introduction to Project Management Concept and principles of project management - Project life cycle and phases- Types of projects in design and media - Roles and responsibilities of project team members - Importance of project management in design and media Unit 2: Project Planning and Initiation Defining project scope and objectives - Develop project work breakdown structure (WBS) - Creating project schedules and timelines using Gantt charts - Resource estimation and allocation - Budgeting and project cost control UNIT-II UNIT-II UNIT-II UNIT-II UNIT-II UNIT-II UNIT-IV The project Execution and Monitoring Communication management in design and media projects - Stakeholder management and engagement strategies - Risk identification, assessment, and mitigation - Quality control and assurance in design projects - Performance monitoring and reporting Unit 4: Tools and Techniques for Project Management Project management software and applications (e.g., Asana, Trello) - Time management techniques for creative teams Unit 5: Project Evaluation and Conclusion Project closure and evaluation practices - Measuring project success and lessons learned -		
UNIT-I UNIT-I UNIT-II UNIT-II UNIT-II UNIT-II UNIT-II UNIT-II UNIT-IV UNIT-	Objective	 Apply techniques to effectively plan and initiate design and media projects, including scoping, scheduling, and resource allocation. Execute and monitor design and media projects by managing communication, stakeholders, risks, quality, and performance. Utilize various tools and methodologies, such as project management software, time management techniques, Agile methodologies, and collaboration platforms, in creative project management. Evaluate, conclude, and document design and media projects while assessing success,
UNIT-II UNIT-II Defining project scope and objectives - Develop project work breakdown structure (WBS) - Creating project schedules and timelines using Gantt charts - Resource estimation and allocation - Budgeting and project cost control Unit 3: Project Execution and Monitoring Communication management in design and media projects - Stakeholder management and engagement strategies - Risk identification, assessment, and mitigation - Quality control and assurance in design projects - Performance monitoring and reporting Unit 4: Tools and Techniques for Project Management Project management software and applications (e.g., Asana, Trello) - Time management techniques for creative professionals - Agile methodologies for project execution - Collaboration tools and platforms for creative teams Unit 5: Project Evaluation and Conclusion Project closure and evaluation practices - Measuring project success and lessons learned - Documentation and report writing for design and media projects - Preparing for future projects and continuous improvement Reference and Text Books: • Dorich, J., Li, Y., Reklaoui, L., & Steeves, M. (2013). Sustainable Solutions in the Construction Industry of Hong Kong. • Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. • Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.youtube.com/watch?v=oRbDDUb2vRI	UNIT-I	Concept and principles of project management - Project life cycle and phases- Types of projects in design and media - Roles and responsibilities of project team members - Importance of project
UNIT-III Communication management in design and media projects - Stakeholder management and engagement strategies - Risk identification, assessment, and mitigation - Quality control and assurance in design projects - Performance monitoring and reporting Unit 4: Tools and Techniques for Project Management Project management software and applications (e.g., Asana, Trello) - Time management techniques for creative professionals - Agile methodologies for project execution - Collaboration tools and platforms for creative teams Unit 5: Project Evaluation and Conclusion Project closure and evaluation practices - Measuring project success and lessons learned - Documentation and report writing for design and media projects - Preparing for future projects and continuous improvement Reference and Text Books: • Dorich, J., Li, Y., Reklaoui, L., & Steeves, M. (2013). Sustainable Solutions in the Construction Industry of Hong Kong. • Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. • Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/	UNIT-II	Defining project scope and objectives - Develop project work breakdown structure (WBS) - Creating project schedules and timelines using Gantt charts - Resource estimation and allocation - Budgeting and project cost control
UNIT-IV Project management software and applications (e.g., Asana, Trello) - Time management techniques for creative professionals - Agile methodologies for project execution - Collaboration tools and platforms for creative teams Unit 5: Project Evaluation and Conclusion Project closure and evaluation practices - Measuring project success and lessons learned - Documentation and report writing for design and media projects - Preparing for future projects and continuous improvement Reference and Text Books: • Dorich, J., Li, Y., Reklaoui, L., & Steeves, M. (2013). Sustainable Solutions in the Construction Industry of Hong Kong. • Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. • Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/	UNIT-III	Communication management in design and media projects - Stakeholder management and engagement strategies - Risk identification, assessment, and mitigation - Quality control and assurance in design projects - Performance monitoring and reporting
Project closure and evaluation practices - Measuring project success and lessons learned - Documentation and report writing for design and media projects - Preparing for future projects and continuous improvement Reference and Text Books: • Dorich, J., Li, Y., Reklaoui, L., & Steeves, M. (2013). Sustainable Solutions in the Construction Industry of Hong Kong. • Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. • Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/	UNIT-IV	Project management software and applications (e.g., Asana, Trello) - Time management techniques for creative professionals - Agile methodologies for project execution - Collaboration
 Dorich, J., Li, Y., Reklaoui, L., & Steeves, M. (2013). Sustainable Solutions in the Construction Industry of Hong Kong. Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/ 	UNIT-V	Project closure and evaluation practices - Measuring project success and lessons learned - Documentation and report writing for design and media projects - Preparing for future projects and
 Industry of Hong Kong. Wiśniewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using Agile Methodologies. Heldman, K. (2018). PMP: project management professional exam study guide. John Wiley & Sons. Online Resources https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/ 	Reference a	and Text Books:
https://www.youtube.com/watch?v=oRbDDUb2vRI https://www.pmi.org/	Indu • Wiśr Agil	stry of Hong Kong. niewski, R., & Bukalska, I. (2020). The Interactive Dimension of Creating Cultural Artifacts Using e Methodologies.
	https://wv	vw.youtube.com/watch?v=oRbDDUb2vRI vw.pmi.org/
Course Outcomes Knowledge level	Course Outco	omes Knowledge level

Demonstrate comprehension of project management concepts, principles, and the project life cycle within design and media contexts.

K1

CO-1

CO-2	Apply techniques to initiate, plan, and define scope, objectives, schedules, resources, and budgets for design and media projects.	KJ&KO
CO-3	Execute project tasks effectively by managing communication, stakeholders, risks, quality, and performance in design and media endeavors.	K4
CO-4	Utilize project management tools, time management strategies, agile methodologies, and collaboration platforms specific to creative teams.	K5
CO-5	Evaluate project success, close projects effectively, generate reports, and leverage lessons learned for continuous improvement in design and media project endeavors.	

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)
CO4	L(1)	M(2)	L(1)	M(2)	M(2)	L(1)	S(3)	L(1)	M(2)	M(2)
CO5	L(1)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)	L(1)	M(2)	M(2
W.AV	1.2	2.2	2	2.2	1.6	2	2.4	1.2	2	2.4

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

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

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

Core 15	Course Code 82962	Emerging Technologies and Trends in VFX.	Т	Credits: 4	Hours:4				
Objective	 Understand the application of AI and machine learning in various facets of design and media production, including rotoscoping, facial animation, character rigging, and environment creation. Explore the integration of real-time rendering engines like Unreal Engine and Unity within virtual production workflows for film and television, encompassing LED walls and motion capture technology. Analyze successful case studies of real-time VFX projects, emphasizing their techniques and impact in the industry. Examine the utilization of VR training simulations, virtual sets, AR/VR, and their influence on VFX, alongside ethical considerations and implications for storytelling and interactive content. Investigate futuristic technologies such as cloud-based rendering, AI-driven narrative generation, brain-computer interfaces, and the ethical challenges related to deepfakes and misinformation in VFX. 								
UNIT-I		e Learning (ML) for automating manual taddia - AI for Rotoscoping, facial animation, ch							
UNIT-II		ring engines like Unreal Engine and Unity -Violetion - LED walls and motion capture technologojects							
UNIT-III		nulations and virtual sets using VFX -Explor - AR filters and interactive storytelling using nt industry.							
UNIT-IV		ndering and collaborative VFX workflows - I oncepts like brain-computer interfaces for VF			eation using				
UNIT-V	considerations of	ive generation and interactive content -Deepfa f emerging technologies in VFX	ikes ai	nd misinformati	on - Ethical				
 Papa Med Auk hum Schr Wes Crer Char Con Karr 	tia, Inc.". stakalnis, S. (201 an factors for AI malstieg, D., & H ley Professional. mona, C., & Kave nger in Filmmak temporary Appli nouskos, S. (2020 ssactions on Tech	7). Augmented human: How technology is share 6). Practical augmented reality: A guide to the R and VR. Addison-Wesley Professional. Collerer, T. (2016). Augmented reality: principalkli, M. (2023). The Evolution of the Virtual Fung. In Creating Digitally: Shifting Boundaries cations and Concepts (pp. 403-429). Cham: Sp. O). Artificial intelligence in digital media: The mology and Society, 1(3), 138-147.	e techr les and Produc :: Arts pringer	nologies, applicand practice. Addition Studio as a and Technologic International P	son- Game ies— ublishing.				
https://wv	ww.youtube.com ww.youtube.com	/@SimplilearnOfficial /@freecodecamp /@promptjungle							

Course Outcomes Knowledge level

CO-1	Demonstrate proficiency in utilizing AI and machine learning for automating manual tasks and enhancing efficiency across various design and media disciplines, such as rotoscoping, facial animation, character rigging, and environment creation.	
CO-2	Explore and apply real-time rendering engines like Unreal Engine and Unity within virtual production workflows for film and television, including LED walls and motion capture technologies, through the study of successful real-time VFX projects.	К3
CO-3	Develop expertise in VR training simulations, virtual sets using VFX, and AR/VR technologies' impact on VFX, including AR filters and interactive storytelling techniques, reflecting the current industry trends.	K2 & K4
CO-4	Evaluate and implement cloud-based rendering and collaborative VFX workflows while exploring futuristic concepts like AI-driven realistic character creation and potential interfaces like brain-computer interfaces for VFX manipulation.	
CO-5	Critically analyze the ethical implications and considerations surrounding emerging technologies in VFX, including deepfakes and misinformation, while also exploring AI-driven narrative generation and interactive content creation in an ethically responsible manner.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L(1)	S(3)	M(2)	M(2)	L(1)	M(2)	M(2)	L(1)	M(2)	S(3)
CO2	M(2)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)
CO3	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)
CO4	L(1)	M(2)	L(1)	M(2)	M(2)	L(1)	S(3)	L(1)	M(2)	M(2)
CO5	L(1)	M(2)	M(2)	S(3)	L(1)	M(2)	M(2)	L(1)	M(2)	M(2
W.AV	1.2	2.2	2	2.2	1.6	2	2.4	1.2	2	2.4

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

VI-Semester - Core								
Core 16	Course Code 82963	Game Engine for VFX - Practical	P	Credits: 5	Hours:5			
Objectives	effects, er 2. Proficiency to elevate 3. Expertise refraction 4. Advanced interior so 5. Ability to abilities, a	of Unreal Engine's Cascade particle editor to craft dephancing scenes with fire, smoke, water splashes, now in integrating environmental effects like rain, smatmosphere and realism in scenes. in developing custom shaders for materials, focusing, distortion, and holographic surfaces to create visual skills in setting up dynamic lighting systems to an eness using Unreal Engine's lighting tools. design character-specific effects, including magical and interactive elements triggered by in-game even and dynamic changes based on player actions with	nagical ow, for any on cally straplify all aurasts, emp	spells, and ng, and weather effects such a unning experthe visual apparts, weapon traploying partic	nore. er systems is iences. beal of ils, unique			

- 1. Create diverse particle effects such as fire, smoke, water splashes, or magical spells using Unreal Engine's Cascade particle editor.
- 2. Integrate environmental effects like weather systems (rain, snow, fog) into a given scene to enhance its atmosphere and realism.
- 3. Create custom shaders for materials, focusing on effects like refraction, distortion, or holographic surfaces.
- **4.** Setting up dynamic lighting systems using Unreal Engine's lighting tools to enhance the visual appeal of an Interior scene.
- 5. Character-specific effects such as magical auras, weapon trails, or unique abilities using particle systems and animation in Unreal Engine.
- **6.** Create interactive effects triggered by in-game events, like explosions that affect the environment or dynamic changes based on player actions.
- 7. Create cinematic sequences using Unreal Engine's Sequencer tool, incorporating various visual effects and camera techniques to tell a story.
- **8.** To create immersive visual effects specifically designed for virtual reality (VR) experiences within Unreal Engine.
- 9. To create immersive visual effects specifically designed for Augmented reality (AR) experiences within Unreal Engine.
- **10.** Create a procedurally generated effects using Unreal engine.
- A portfolio showcasing the different particle systems created with varying complexities and behaviors.
 demonstrating the impact of environmental effects on the scene's visual appeal.
 Documentation detailing shader parameters and their impact on visual output.
 Documentation detailing optimization techniques used and their impact on resource consumption.
 VR/AR experiences with immersive visual effects tailored specifically for those environments.
 Exploration of innovative and experimental visual effects like stylized rendering or procedurally generated effects, with documentation on the techniques and their potential applications.

Reference and Text Books:

- 1. An, D. (2022). Technology-driven Virtual Production. Revista FAMECOS, 29(1), e43370-e43370.
- 2. Karis, B., & Games, E. (2013). Real shading in unreal engine 4. *Proc. Physically Based Shading Theory Practice*, 4(3), 1.
- 3. Carnall, B. (2016). Unreal Engine 4. X By Example. Packt Publishing Ltd.
- 4. Gao, J., Chen, Y., Cao, B., Chen, Y., & Li, C. (2023). Training Scene Construction and Motion Realization of Unmanned Craft based on Unreal Engine. *Frontiers in Computing and Intelligent Systems*, 4(3), 56-61.

Online Resources

https://www.youtube.com/channel/UCGKjGGjdl-GzEcFPf1EQwqw https://www.youtube.com/@UnrealSensei https://www.youtube.com/@magnetvfx

Course Outcome VS Programme Outcomes

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	M(2)	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	M(2)	M(2)	S(3)	S(3)	S(3)	M(2)	S(3)	S(3)
CO3	M(2)	S(3)	S(3)	M(2)	S(3)	S(3)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	M(2)	M(2)	S(3)	M(2)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	2.6	2.8	2. 6	2.2	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

		V-Semester - DSE 4			
DSE 4	Course Code 82964A	FX & Advanced Compositing 1. FX	P	Credits: 4	Hours: 5

1. Demonstrate proficiency in particle systems by simulating dynamic behavior like gravity, turbulence, and collisions, managing attributes like velocity, lifespan, and external forces within the simulation. Showcase expertise in fluid dynamics using Houdini's FLIP solver, exhibiting precise control over viscosity, surface tension, and interaction with obstacles to create realistic scenarios such as pouring liquids or splashing water. 3. Master pyrotechnic effects by manipulating parameters such as density, temperature, Objectives turbulence, and color to create visually appealing and realistic simulations of fire or smoke using Houdini's tools. 4. Showcase understanding of rigid body dynamics in Houdini, illustrating interactions, collisions, constraints, and responses to external forces to create realistic and engaging simulations involving rigid bodies. Execute a self-directed FX project integrating multiple techniques learned, applying creativity and technical skills to create a visually striking and conceptually intriguing visual effect related to chosen VFX aspects such as magic effects or sci-fi elements. Students are required to create the following: 1. Create a scene where particles are emitted from a specific source and exhibit dynamic behavior (such as gravity, turbulence, or collisions). Demonstrate understanding of particle attributes like velocity, lifespan, and forces affecting their motion. 2. Design a fluid simulation using Houdini's FLIP solver. Create a scenario (e.g., pouring liquid, splashing water) that showcases your ability to control viscosity, surface tension, and interaction with obstacles. 3. Build a pyrotechnic effect like fire or smoke. Showcase your control over parameters such as density, temperature, turbulence, and color to create a realistic and visually appealing result 4. Construct a simulation involving rigid bodies using Houdini's dynamics tools. Show the interaction and behavior of these bodies upon collision, using constraints, and demonstrating their responses to external forces 5. Develop a self-directed FX project that combines multiple techniques learned. Choose an aspect of VFX that intrigues you (e.g., magic effects, sci-fi elements) and showcase your creativity and technical skills in executing this project. 1. Understand and apply particle attributes like velocity, lifespan, and forces (e.g., gravity, turbulence, collisions) in a simulated particle system to create dynamic and realistic behavior. 2. Demonstrate proficiency in Houdini's FLIP solver by designing and controlling a fluid simulation, showcasing skills in managing viscosity, surface tension, and obstacle interaction for scenarios like pouring liquid or splashing water. 3. Showcase expertise in creating pyrotechnic effects (e.g., fire, smoke) using Houdini, 6. Outc displaying control over parameters such as density, temperature, turbulence, and color to omes generate visually appealing and realistic results. 4. Exhibit proficiency in Houdini's dynamics tools by constructing simulations involving rigid bodies, showcasing their interaction upon collision, use of constraints, and response to external forces to create dynamic and believable scenarios. 5. Develop a self-directed FX project integrating various techniques learned, demonstrating creativity and technical skills to execute a chosen VFX aspect (e.g., magic effects, sci-fi elements) in a visually compelling and technically proficient manner.

Course Outcome VS Programme Outcomes

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
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CO1	M(2)	S(3)	M(2)	M(2)	L(1)	S(3)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	S(3)	S(3)						
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	S(3)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	1.2	2.2	2	2.2	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

DSE 4	Course Code82964B	FX & Advanced Compositing 2 .CFX	P	Credits: 4	Hours:5
Objectives	 Implement Develop Master has 	nd cloth dynamics and simulation techniques for chant flag or curtain animation using simulation tools at crowd simulations to replicate diverse behaviors and air simulation methods for realistic character animater simulation techniques to create lifelike textures and a.	nd tecl d move tion.	hniques. ements.	racter

Students are required to create the following:

- 1. Create a cloth simulation for a character animation
- 2. Create a flag or curtain Animation.
- **3.** Crete a crowd stimulation
- 4. Create a Hair simulation for a character animation
- 5. Create a Fur simulation for a character animation

6. Outcomes	 Understand the principles of cloth dynamics and implement realistic cloth simulations for character animations, such as flags or curtains, mastering their movement and behavior in various scenarios. Develop crowd simulations, employing techniques to efficiently generate and control multiple characters within a scene, demonstrating proficiency in managing complex interactions and behaviors. Gain expertise in hair simulation, mastering the creation of natural-looking and dynamic hair movements for characters, enhancing realism and believability in animations. Acquire skills in fur simulation, applying advanced techniques to create lifelike fur dynamics for characters, enabling realistic rendering and movement in animated sequences. Demonstrate comprehensive knowledge and practical application of simulation techniques, fostering the ability to create immersive and convincing character animations through cloth, crowd, hair, and fur simulations.
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Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	M(2)	M(2)	L(1)	S(3)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	S(3)	S(3)						
СОЗ	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	S(3)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	1.2	2.2	2	2.2	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

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DSE 4	Course Code82964C	FX & Advanced Compositing 3. CG & Live Action footage.	P	Credits: 4	Hours: 5
Objectives	footage the seamless! 4. Develop character 5. Demonst:	In the process of integrating CG elements, such through camera tracking and compositing technical aspecific effects shot that combines CG and living appropriate integration methods. In the integration of CG creatures into live-action using tracking and compositing tools. It is generating computer-generated environg filmed in front of a green screen into the CG errate proficiency in utilizing software tools and action footage, achieving realistic and visually	ques. re-action e on footage nments and nvironment echniques	elements, and by blending d compositing nt. s to merge CG	recreate it them
		Students are required to create the following	ng:		
 Recre Integr Create 	ate one specific e rate Cg Creature	ge and add Cg Elements. ffects shots, using both CG and live-action eler in the live action footage using Computer graphics and composite a hun		cter shooted in	n front of
Outcomes	footage to appear na 2. Composi computer for a cohe 3. Special E coordinate synchron 4. CG Create scenes, ir elements 5. Environne environments	nding Camera Tracking and Integration: Gain poseamlessly integrate CG elements like vehicle attural within the scene. Iting and Layering Skills: Learn techniques for expenerated imagery, focusing on proper layering esive final image. Effects Coordination: Develop expertise in recreating CG and live-action elements, understanding ization and realism. Iture Integration: Master the process of integrational integrations for lighting, perspective for convincing visual effects. Inent Creation and Green Screen Compositing: An ents and seamlessly compositing live actors shiftal settings, ensuring realistic interaction and in	es or creations or creations or creations of combining g, lighting atting specific g the require g CG creep, and interpretations of combining combined and combined c	g live-action for a statute and shadow reference to the contraction with recills in general of green screens.	ootage with r integration ots by effective re-action eal-world ting CG ens into

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M(2)	S(3)	M(2)	M(2)	L(1)	S(3)	M(2)	M(2)	M(2)	L(1)
CO2	S(3)	M(2)	S(3)	S(3)						
CO3	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	S(3)	M(2)	M(2)	M(2)
CO4	S(3)	M(2)	M(2)	M(2)	L(1)	M(2)	L(1)	M(2)	M(2)	M(2)
CO5	M(2)	S(3)	S(3)	M(2)	L(1)	M(2)	M(2)	S(3)	S(3)	S(3)
W.AV	2.4	2.6	2.4	2	1.2	2.2	2	2.2	2.4	2

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

 Develop a comprehensive and functional Visual Effects Short Film that demonstrates mastery of chosen Specialization. Apply theoretical knowledge to address practical challenges within Visual Effects, showcasing problem-solving abilities. Demonstrate creativity, innovation in Visual effects Filmmaking that exhibit your Specialization in Visual Effects. Create a cohesive documentation outlining the development process, decision-making rationale, and technical aspects of the project. Present and defend the project's technical aspects and design choices through a well-structured dissertation or presentation. Develop a comprehensive and functional Visual Effects Short Film that demonstrates mastery of chosen Specialization. Apply theoretical knowledge to address practical challenges within Visual Effects, showcasing problem-solving abilities. Demonstrate creativity, innovation in Visual effects Filmmaking that exhibit your Specialization in Visual Effects. Create a cohesive documentation outlining the development process, decision-making rationale, and technical aspects of the project. 	Core	Course Code 82965A/ 82965B	Project/ Dissertation		Credits: 6	Hours: 12	
mastery of chosen Specialization. Apply theoretical knowledge to address practical challenges within Visual Effects, showcasing problem-solving abilities. Demonstrate creativity, innovation in Visual effects Filmmaking that exhibit your Specialization in Visual Effects. Create a cohesive documentation outlining the development process, decision-making	Objectives	 Develop a comprehensive and functional Visual Effects Short Film that demonstrates mastery of chosen Specialization. Apply theoretical knowledge to address practical challenges within Visual Effects, showcasing problem-solving abilities. Demonstrate creativity, innovation in Visual effects Filmmaking that exhibit your Specialization in Visual Effects. Create a cohesive documentation outlining the development process, decision-making rationale, and technical aspects of the project. Present and defend the project's technical aspects and design choices through a well- 					
➤ Present and defend the project's technical aspects and design choices through a well- structured dissertation or presentation.	Outcomes	mastery of chosen Specialization. Apply theoretical knowledge to address practical challenges within Visual Effects, showcasing problem-solving abilities. Demonstrate creativity, innovation in Visual effects Filmmaking that exhibit your Specialization in Visual Effects. Create a cohesive documentation outlining the development process, decision-making rationale, and technical aspects of the project.					

AIM OF THE PROJECT WORK

- 1. The aim of the project work is to acquire practical knowledge on the implementation of the programming concepts studied.
- 2. Each student should carry out individually one project work and it may be a work using the software packages that they have learned or the implementation of concepts from the papers studied or implementation of any innovative idea focusing on application oriented concepts.
- **3.** The project work should be compulsorily done in the college only under the supervision of the department staff concerned.

VivaVoce

- 1. Viva-Voce will be conducted at the end of the year by both Internal (Respective Guides) and External Examiners, after duly verifying the Annexure Report available in the College, for a total of 100 marks at the last day of the practical session.
- 2. Out of 100 marks, 25 marks for CIA and 75 for CEE (50 evaluation of project report + 25 Viva Voce).

PROJEC	T WORK			
TITLE OF THE	DISSERTATION			
Bonafide W	Vork Done by			
STUDEN	NT NAME			
REG	G. NO.			
GUIDE	ENAME			
Dissertation submitted in partial fulfillment of the requirements for the award of				
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ICAT Design and Mo	edia College, Chennai.			
Colleg	ge Logo			
Signature of the Guide	Signature of the HOD			
Submitted for the Viva-Voce Examination held	l on			
Internal Examiner	External Examiner			
Month	n – Year			
Univers	sity Logo			

CONTENTS

Declaration

Bonafide Certificate

Acknowledgment

I. VISUAL EFFECTS DOCUMENT

- 1. Story Ideation
- 2. Screenplay Writing
- 3. Storyboarding
- 4.Casting & Location
- 5.Budgeting
- 6.Gantt Chart
- 7.Production
- 8.Post production
- 9.Conclusion

Course Outcome VS Programme Outcomes

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

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

UG Programme

Passing minimum

- A candidate shall be declared to have passed in each course if he/she secures not less than 40% marks in the End Semester Examinations and 40% marks in the Internal Assessment and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- ➤ The passing minimum for CIA shall be 40% out of 25 marks (i.e.10 marks) in Theory/ Practical Examinations.
- The passing minimum for University Examinations shall be 40% out of 75 marks (i.e. 30 marks) for Theory /Practical papers.
- The candidates not obtain 40% in the Internal Assessment are permitted to improve their Internal Assessment marks in the subsequent semesters (2 chances will be given) by writing the CIA tests or by submitting assignments.
- Candidates, who have secured the pass marks in the End-Semester Examination and in the CIA but failed to secure the aggregate minimum pass mark (E.S.E + C I.A), are permitted to improve their Internal Assessment mark in the following semester and/or in University examinations.
- A candidate shall be declared to have passed in the Dissertation/Project report/Internship report if he/she gets not less than 40% marks in the Internal Assessment and End Semester Examinations and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- A candidate who gets less than 40% in the Dissertation / Internship/ Project Report must resubmit the thesis. Such candidates need to take again the Viva-Voce on the resubmitted report/thesis.

18.2 Grading of the Courses

The following table gives the marks, Grade points, Letter Grades, and classifications meant

to indicate the overall academic performance of the candidate.

Conversion of Marks to Grade Points and Letter Grade (Performance in Course / Paper)

RANGE OF MA RKS	GRADE POINTS	LETTE R GRADE	DESCRIPTION
90 - 100	9.0 - 10.0	0	Outstanding
80 - 89	8.0 - 8.9	D+	Excellent
75 - 79	7.5 - 7.9	D	Distinction
70 - 74	7.0 - 7.4	A+	Very Good
60 - 69	6.0 - 6.9	A	Good
50 - 59	5.0 - 5.9	В	Average
40 - 49	4.0 - 4.9	С	Satisfactory
00 - 39	0.0	U	Re-appear
ABSENT	0.0	AAA	ABSENT

- a) Successful candidates passing the examinations and earning a GPA between 9.0 and 10.0 and marks from 90 100 shall be declared to have Outstanding (O).
- b) Successful candidates passing the examinations and earning GPA between 8.0 and 8.9 and marks from 80 89 shall be declared to have Excellent (D+).
- c) Successful candidates passing the examinations and earning GPA between 7.5 7.9 and marks from 75 79 shall be declared to have Distinction (D).
- d) Successful candidates passing the examinations and earning GPA between 7.0 7.4 and marks from 70 74 shall be declared to have Very Good (A+).
- e) Successful candidates passing the examinations and earning GPA between 6.0 6.9 and marks from 60 69 shall be declared to have Good (A).
- f) Successful candidates passing the examinations and earning GPA between 5.0 5.9 and marks from 50 59 shall be declared to have Average (B).
- g) Successful candidates passing the examinations and earning GPA between 4.0 4.9

and marks from 40 - 49 shall be declared to have Satisfactory (C).

- h) Candidates earning GPA between 0.0 and marks from 00 39 shall be declared to have Re-appear (U).
- i) Absence from an examination shall not be taken as an attempt.

From the second semester onwards the total performance within a semester and continuous performance starting from the first semester are indicated respectively **by** Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA).

These two are calculated by the following formulate

GRADE POINT AVERAGE (GPA) = $\Sigma_i C_i G_i / \Sigma_i$

 C_{i}

GPA = <u>Sum of the multiplication of grade</u>

points by the credits of the courses

Sum of the credits of the courses in

a Semester

18.3 Classification of the final result

The final result of the candidate shall be based only on the CGPA earned by the candidate.

- a) Successful candidates passing the examinations and earning CGPA between 9.5 and 10.0 shall be given Letter Grade (O+) and those who earned CGPA between 9.0 and 9.4 shall be given Letter Grade (O) and declared to have First Class –Exemplary*.
- b) Successful candidates passing the examinations and earning CGPA between 7.5 and 7.9 shall be given Letter Grade (D), those who earned CGPA between 8.0 and 8.4 shall be given Letter Grade (D+) and those who earned CGPA between 8.5 and 8.9 shall be given Letter Grade (D++) and declared to have First Class with Distinction*.
- c) Successful candidates passing the examinations and earning CGPA between 6.0 and 6.4 shall be given Letter Grade (A), those who earned CGPA between 6.5 and 6.9 shall be given Letter Grade (A+), and those who earned CGPA between 7.0 and 7.4 shall be given Letter Grade (A++) and declared to have First Class.
- d) Successful candidates passing the examinations and earning CGPA between 5.0 and 5.4 shall be given Letter Grade (B) and those who earned CGPA between 5.5 and 5.9 shall be given Letter Grade (B+) and declared to have passed in the Second Class.

- e) Successful candidates passing the examinations and earning CGPA between 4.0 and 4.4 shall be given Letter Grade (C) and those who earned CGPA between 4.5 and 4.9 shall be given Letter Grade (C+) and declared to have passed in the Third Class.
 - f) Absence from an examination shall not be taken as an attempt.

CGPA	Grade	Classification of Final Result
9.5 – 10.0		First Class –
9.0 and	0+	Exemplary*
above but	0	
below 9.5		
8.5 and		First Class with
above but		Distinction*
below 9.0		
8.0 and	D++	
above but	D+	
below 8.5	D	
7.5 and		
above but		
below 8.0		
7.0 and		First Class
above but		
below 7.5		
6.5 and	A++	
above but	A+	
below 7.0	A	
6.0 and		
above but		
below 6.5		
5.5 and		Second Class
above but		
below 6.0	B+	
5.0 and	В	
above but		
below 5.5		
4.5 and		Third Class
above but		
below 5.0	C+	
4.0 and	C	
above but		
below 4.5		
0.0 and		Re-appear
above but	U	
below 4.0		

Final Result

CUMULATIVE GRADE POINT AVERAGE (CGPA) = $\Sigma_n \Sigma_i C_{ni} G_{ni} / \Sigma_n \Sigma_i C_{ni}$ CGPA = Sum of the multiplication of grade points by the credits of the entire programme

Sum of the credits of the course for the

entire Programme

Where 'Ci' is the Credit earned for Course i in any semester; 'Gi' is the Grade Point obtained by the student for Course <u>i and 'n' refers to the semester</u> in which such courses were credited.

CGPA (Cumulative Grade Point Average) = Average Grade Point of all the Courses passed starting from the first semester to the current semester.

Note: * The candidates who have passed in the first appearance and within the prescribed Semesters of the UG Programme (Major, Allied, and Elective courses alone) are eligible for this classification.