Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956) ("A++" Grade, NAAC Accredited)



Scheme of Examination for Post Graduate Programme

M.Sc. Graphic Animation and Multimedia

as per NEP 2020 Curriculum and Credit Framework for Postgraduate Programme

With Multiple Entry-Exit, Internship and CBCS-LOCF With effect from the session 2024-25 (in phased manner)

Institute of Mass Communication and Media Technology FACULTY OF COMMERCE AND MANAGEMENT

KURUKSHETRA UNIVERSITY, KURUKSHETRA-136119 HARYANA, INDIA

Programme Learning Outcomes (PLOs) for PG Programmes as per NEP-2020

PLOs	M.Sc. Graphic Animation and Multimedia
	After the completion of Master degree in Graphic Animation and Multimedia the student will be able to:
PLO-1: Knowledge and Understanding	Demonstrate the fundamental and advanced knowledge of the subject and understanding of recent developments and issues, including methods and techniques, related to Graphic animation and Multimedia.
PLO-2: General Skills	Acquire the general skills required for performing and accomplishing the tasks as expected to be done by as Skilled professional in the fields of Graphic animation and Multimedia.
PLO-3: Technical/Professional Skills	Demonstrate the learning of advanced cognitive technical/professional skills required for completing the specialized tasks related to the Profession and for conducting and analyzing the relevant research tasks in different domains of Graphic animation and Multimedia.
PLO-4: Communication Skills	Effectively communicate the attained skills of Graphic animation and Multimedia in well-structured and productive manner to the society At large.
PLO-5: Application of Knowledge and Skills	At large. Apply the acquired knowledge and skills to the problems in the subject area, and to identify and analyze the issues where the attained knowledge and skills can be applied by carrying out research investigations to formulate evidence-based solutions to complex and unpredictable problems associated with the field of Graphic animation and Multimedia or otherwise.
PLO-6: Critical thinking and Research Aptitude	Attain the capability of critical thinking in intra/inter-disciplinary areas of Graphic animation and Multimedia enabling to formulate, synthesize, and articulate issues for designing of research proposals, testing hypotheses, and drawing inferences based on the analysis.
PLO-7: Constitutional, Humanistic, Moral Values and Ethics	Know constitutional, humanistic, moral and ethical values, and intellectual property rights to become a scholar/professional within grained values in expanding knowledge for the society, and to avoid unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.
PLO-8: Capabilities/qualities and mindset	To exercise personal responsibility for the outputs of own work as well as of group/team and for managing complex and challenging work(s) that requires new/strategic approaches.
PLO-9: Employability and job-ready skills	Attain the knowledge and skills required for increasing employment potential, adapting to the future work and responding to the rapidly changing demands of the employers/industry/society with time.

Kurukshetra University, Kurukshetra

Scheme of Examination for Postgraduate Programme

M.Sc. Graphic Animation and Multimedia

As per NEP2020 Curriculum and Credit Framework for

Postgraduate Programme (CBCS LOCF) with effect from the

session 2024-25 (in phased manner)

Framework-1

Scheme-P

Semester	Course Type	Course Code	Nomenclature of course	Theo ry(T) / Practic al (P)	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial			Internal Assessme nt Marks	End Term Exami nation Marks	Total Marks	Examin ation hours					
						To tal	L	Т	Р	Tot al								
1	CC-1	M24- GAM- 101	Story, Script & Storyboarding	Т	4	22	4	0	0	4	30	70	100	3				
	CC-2	M24- GAM- 102	Graphic Design	Т	4	4	4	4	4	0	0	4	30	70	100	3		
	CC-3	M24- GAM- 103	Multimedia Technologies	Т	4			4	0	0	4	30	70	100	3			
	PC-1	M24- GAM- 104	Visual Art and Creativity	Р			4	P 4	_		4	0	0	8	8	30	70	100
	PC-2	M24- GAM- 105	Digital Design Lab	Р	4	-				0	0	8	8	30	70	100	4	
	SEMINAR	M24- GAM- 106	Seminar	S	2		0	0	0	2	0	50	50	1				
2	CC-4	M24- GAM- 201	Animation Techniques	Т	4	22	4	0	0	4	30	70	100	3				
	CC-5	M24- GAM- 202	Multimedia Programming	Т	4	-	_		4		4	0	0	4	30	70	100	3
	CC-6	M24- GAM- 203	User Interface & User Experience (UI /UX)	Т	4				4	0	0	4	30	70	100	3		
	PC-3	M24- GAM- 204	Production Lab	Р	4		0	0	8	8	30	70	100	4				
	PC-4	M24- GAM- 205	3D Modeling & Texturing	Р	4		0	0	8	8	30	70	100	4				

	СНМ	M24- CHM- 201	Constitutional Human and Moral Values, And IPR	Т	2		2	0	0	2	15	35	50	3
	Interns hip	M24- INT - 200	An internship course of 4 summer vacation after IIn every student. Internship employability or for deve	id sei can b	meste De eith	r is to her for	be co enha	ompi ancir	leted l ng the	by	50	50	100	
3		M24- GAM- 301	Gaming Concepts	Т	4	22	4	0	0	4	30	70	100	3
		M24- GAM- 302	3D Rigging & Lighting	Т	4		4	0	0	4	30	70	100	3
	DEC- 1 (Choo se	M24- GAM- 303	Film Appreciation	Т	4		4	0	0	4	30	70	100	3
	any one)	M24- GAM- 304	Artificial Intelligence (AI)	Т	4		4	0	0	4	30	70	100	3
		M24- GAM- 305	Advertisement Design	Т	4		4	0	0	4	30	70	100	3
		M24- GAM- 306	MOOC course from Swayam Portal or other approved Portals	Т	4		4	0	0	4	30	70	100	3
	PC-5	M24- GAM- 307	UI & UX Lab	Р	4		0	0	8	8	30	70	100	4
	PC-6	M24- GAM- 308	Motion Design	Р	4		0	0	8	8	30	70	100	4
	OEC	M24- OEC-327	Image Retouching & Photo Editing	Т	2		2	0	0	2	15	35	50	3
4		M24- GAM- 401	Research Methodology	Т	4	22	4	0	0	4	30	70	100	3
		M24- GAM- 402	3D Animation & Rendering	Т	4		4	0	0	4	30	70	100	3
	CHOOSE	M24- GAM- 403	Print and Publishing	Τ	4		4	0	0	4	30	70	100	3

	M24- GAM- 404	Information security	Т	4		4	0	0	4	30	70	100	3
	404 M24- GAM- 405	Audio Video Production	Т	4		4	0	0	4	30	70	100	3
	M24- GAM- 406	MOOC course from Swayam Portal or other approved portals											
PC-7	M24- GAM- 407	3D Design and Game Engine	Р	4		0	0	8	8	30	70	100	4
PC-8	M24- GAM 408	VFX Production Lab	Р	4		0	0	8	8	30	70	100	4
EEC	M24- GAM- 409	Digital Marketing Entrepreneurship	Т	2		2	0	0	2	15	35	50	3
NO		CANDIDATE OPT STER, HE/SHE WI		DISS UDY	SERT CC-9	[AT] 9, DI	ION EC-2	/ PR 2 AN	OJE D EF	CT WOF			
CC-9	M24- GAM- 401	Research Methodology	Т	4		4	0	0	4	30	70	100	3
DEC- (Choos any	CAM	Print and Publishing	Т	4		4	0	0	4	30	70	100	3
one)	M24- GAM- 404	Information security	Т	4		4	0	0	4	30	70	100	3
	M24- GAM- 405	Audio Video Production	Т	4		4	0	0	4	30	70	100	3
	M24- GAM- 406	MOOC course from Swayam Portal or other approved Portals											
EEC	M24- GAM- 408	Digital Marketing Entrepreneurship	Т	2		2	0	0	2	15	35	50	3
Disser ation/ Projec Work	GAM-	Dissertation/ Project Work	D	12		0	0	0	12	0	300	300	

Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956) ("A++" Grade, NAAC Accredited)



Syllabus for Post Graduate Programme

M.Sc. Graphic Animation and Multimedia

as per NEP 2020 Curriculum and Credit Framework for Postgraduate Programme

With Multiple Entry-Exit, Internship and CBCS-LOCF With effect from the session 2024-25 (in phased manner)

Institute of Mass Communication and Media Technology FACULTY OF COMMERCE AND MANAGEMENT

KURUKSHETRA UNIVERSITY, KURUKSHETRA-136119 HARYANA, INDIA

	Session: 2024-25						
	Part	A - Introducti	on				
Name of Pr			c Animation and Mult	imedia			
Semester	•	First					
Name of th		Story, Script &	Storyboarding				
Course Co	de	M24-GAM-10	1				
CourseTyp		CC-1					
Level of th		400-499					
	te for the course (ifany)						
	rningOutcomes (CLO)	CLO 1: learn	n the idea creation for	writing a story.			
After completing this course, the learner will CLO 2: Understand the grammar fundamentals for							
be able to: writing content							
			erstand the language, d				
		formats		. into the multimedia			
		Tormats	5				
Credits		Theory	Practical	Total			
		4	0	4			
Teaching I	Hours per week	4	0	4			
Internal As	sessment Marks	30	0	30			
	Exam Marks	70	0	70			
Max. Mark		100	0	100			
Examinatio			3 hours				
T		ontents of the					
	s for Paper- Setter: The examine compulsory question by taking co						
	question (Question No. 1) will						
	vill be required to attempt 5 que						
compulsory	question. All questions will carry	equal marks.					
Unit	T	opics		Contact Hours			
Ι	Story						
	Elements of story, Resources and id	less from life S	tory Genres Characters				
	and the story, character driven stories		•				
	Story structures and styles (Linear, N	Ion-Linear, Circ	ular and Episodic)				
	Narrative, non-narrative, abstract,	absurd with re	eference to stories for				
	animated film Basic writing for Anim						
	structure, Conflict, Setting mod	•					
	Dénouement, Resolution						
II	Script						
Anatomy of a Script, Script Elements and Scene Heading, Action,							
	Characters, Dialogue, Parenthetica		-				
	Breaking, Finer Points, Dual Dial		-				
	Montages, A Series of Shots and continuity etc.	Short Lines/Po	etry/Lyrics, transitions,				
	Titles or Opening Credits, and Super	impose or Title,	Title Page, Production				
	Drafts, Top Continued and Bottom C	Continued, Locki					
	Locking Scenes, Header, Do's and D	on'ts.					

	Script Formats, Radio scripts, TV scripts, Anin	mation	film sc	ripts.				
III	Storyboarding							
	Introduction to Storyboard, Importance of StoryBoard, difference between storyboard and Graphic Comic, Difference between Story, Script and Storyboard. Advantages of Storyboard in Animation and Anatomy of a Storyboard.							
IV	Shots							
	Introduction to various shots, Camera angles and Camera Movements used in Storyboard panels. continuity and Timing, Building a sequence of shots. Use of Perspective, Composition, Light & Shadow in Storyboarding.							
Script to Storyboard Designing a storyboard based on a short script, Use of Thumbnails and Quick story sketches, Creating visual narrative using Animatics								
	Suggested Evalua	tion N		al Contact Hours	60			
	Internal Assessment: 30				amination: 70			
> The		30		Theory:	70			
	Participation:	5		Written Ex	amination			
• Semin	nar/presentation/assignment/quiz/class test etc	.: 10						
• Mid-T	Ferm Exam:	15						
	Part C-Learning	<u>; Res</u>	ources					
Recomn	nended Books/e-resources/LMS:							
- Ar	nimation history and production by aparna vats; no	ew del	hi publi	shers; First editi	on 2017			
- Sto	ory: Substance, Structure, Style and the Principles	of Sci	eenwrit	ing by Robert M	IcKee			
- Th	he Way of the Storyteller by Ruth Sawyer							
	omic Book Design: The Essential Guide to Creatir illidge	ig Grea	at Comi	cs and Graphic l	Novels Gary Spencer			
- Fa	cial Expressions: A Visual Reference for Artists,	Mark S	Simon, I	Publisher: Watso	on-Guptill,			
	ne Animation Book: A Complete Guide to Animat artoons to 3- D Animation, Three Rivers Press	ed Filı	nmakin	gFrom Flip-Bo	ooks to Sound			
- Th	e Illusion of Life: Disney Animation, Ollie Johns	ton and	d Frank	Thomas, Publis	her: Disney Editions			
- Ma	aking Comics: Storytelling Secrets of Comics, M.	by S	cott Mc	Cloud				
	he Art of story board by John Hart	-						
	ow to Write for Animation' by Jeffrey Scott's boo	ok						
	nimation Art: From Pencil to Pixel, the world of C		Anime	and CGI- Jerry	Beck			

- The Animation Bible: A Practical Guide to the Art of Animating from Flipbooks to Flash [Paperback], Maureen Furnis

	S	Session: 2024-2	5		
	Par	t A – Introduc	tion		
Name	of Programme	M.Sc. Graphi	c Animation	and Multir	nedia
Semest	ter	First			
Name	of the Course	Graphic Design			
Course	e Code	M24-GAM-10	2		
	е Туре	CC-2			
	of the course	400-499			
	quisite for the course (if any)				
	e Learning Outcomes (CLO)	CLO 1: Under	stand the basi	c principle	es of graphic design.
	completing this course, the learner will			<u> </u>	<u> </u>
be able	i c				nd color scheme
					of layouts in graphic
					of layouts in graphic
Credit		designing.	Practic	1	Tatal
Crean	LS	Theory			Total
<u> </u>	· •	4	0		4
	ing Hours per week	4	0		4
	al Assessment Marks	30	0		30
	erm Exam Marks	70 100	0		70
Max. N	ination Time	100	0	3 hours	100
Елапп		Contents of th		5 nours	
and on	e compulsory question by taking consorved automatic question by taking consorved automatic question (Ouestion No. 1) will	ourse learning	outcomes (C	LOs) into	consideration. The
and on compul examine compul	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry	ourse learning l consist at le testions; selections; s	outcomes (Cast 4 parts o	LOs) into covering e	consideration. The entire syllabus. The each unit and the
and one compul examine compul Unit	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry	burse learning l consist at le lestions; selections; selections; equal marks. opics	outcomes (C ast 4 parts o ng one ques	LOs) into covering e	consideration. The entire syllabus. The each unit and the Contact Hours
and on compul examine compul	e compulsory question by taking co sory question (Question No. 1) will ee will be required to attempt 5 qu sory question. All questions will carry To Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desi	ourse learning l consist at le nestions; selecti equal marks. opics ics, uses & types ign ign	outcomes (C ast 4 parts o ng one ques	LOs) into covering e	consideration. The entire syllabus. The each unit and the
and one compul examine compul Unit	e compulsory question by taking co sory question (Question No. 1) will ee will be required to attempt 5 qu sory question. All questions will carry To Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visua Elements of Art: Point, Line, Form, Sh Principles of Art: Balance, Rhythm, Ha	ourse learning l consist at le nestions; selecti equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color	outcomes (C ast 4 parts of ng one ques of graphics	LOs) into covering e stion from	consideration. The entire syllabus. The each unit and the Contact Hours
and one compul examine compul Unit I	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visus Elements of Art: Point, Line, Form, Sh Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses	purse learning l consist at le nestions; selecti equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes	outcomes (C ast 4 parts of ng one ques of graphics	LOs) into covering e stion from	consideration. The entire syllabus. The each unit and the Contact Hours 15
and one compul examine compul Unit I	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visus Elements of Art: Point, Line, Form, Sh. Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour se Authoring and process of publishing Publishing types, newspaper and magaz Research papers and publications	purse learning l consist at le lestions; selecti equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes cheme zine publishing	outcomes (C ast 4 parts of ng one ques of graphics	LOs) into covering e stion from	consideration. The entire syllabus. The each unit and the Contact Hours 15
and one compul examine compul Unit I	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visu Elements of Art: Point, Line, Form, Sh Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour so Authoring and process of publishing Publishing types, newspaper and magaz	purse learning l consist at le lestions; selecti equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes cheme zine publishing	outcomes (C ast 4 parts of ng one ques of graphics	LOs) into covering e stion from ue	consideration. The entire syllabus. The each unit and the Contact Hours 15 15
III	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry Te Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visu Elements of Art: Point, Line, Form, Sh Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour se Authoring and process of publishing Publishing types, newspaper and magaz Research papers and publications Packaging and its types, Functions of P	purse learning l consist at le lestions; selecti equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes cheme zine publishing	Total Cont Methods	LOs) into covering e stion from ue ue	consideration. The entire syllabus. The each unit and the Contact Hours 15 15 15 15 15 60
III	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry To Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visus Elements of Art: Point, Line, Form, Sh. Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour se Authoring and process of publishing Publishing types, newspaper and magaz Research papers and publications Packaging and its types, Functions of P Suggest Internal Assessment: 30	ourse learning l consist at le lestions; selective equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes cheme zine publishing eackaging ed Evaluation	outcomes (C ast 4 parts of ng one quest of graphics , Texture, Val Proportion, • Total Cont Methods End	LOs) into covering e stion from ue ue	consideration. The entire syllabus. The each unit and the Contact Hours 15 15 15
III	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry Te Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visu Elements of Art: Point, Line, Form, Sh Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour se Authoring and process of publishing Publishing types, newspaper and magaz Research papers and publications Packaging and its types, Functions of P	purse learning l consist at le l consist at le l consist at le l consist at le leastions; selective equal marks. opics ics, uses & types ign fector graphics gn in advertising al Perception ape, Space, Color trmony, Contrast, pes cheme zine publishing backaging ed Evaluation 30	Total Cont Methods	LOs) into covering e stion from ue ue <u>tact Hours</u> Term Exa	consideration. The entire syllabus. The each unit and the Contact Hours 15 15 15 15 15 60
III IV IV	e compulsory question by taking co sory question (Question No. 1) wil ee will be required to attempt 5 qu sory question. All questions will carry To Introduction to graphics, tools of graph Meaning and definition of graphics des Elements and principles of graphic desig Graphics Overview: Raster graphics, V Understanding the role of graphic desig Design Theory: Gestalt Principal, Visus Elements of Art: Point, Line, Form, Sh. Principles of Art: Balance, Rhythm, Ha Dominance, Unity Logo Design: Principal, element and ty Poster Design: Types, Elements Brochure Design: Types Infographics: concept and uses Colour Theory: Colour wheel, colour se Authoring and process of publishing Publishing types, newspaper and magaz Research papers and publications Packaging and its types, Functions of P Suggest Internal Assessment: 30	ourse learning l consist at le lestions; selective equal marks. opics ics, uses & types ign ector graphics gn in advertising al Perception ape, Space, Color urmony, Contrast, pes cheme zine publishing eackaging ed Evaluation	outcomes (C ast 4 parts of ng one quest of graphics , Texture, Val Proportion, • Total Cont Methods End > Theo	LOs) into covering e stion from ue ue <u>tact Hours</u> Term Exa	consideration. The entire syllabus. The each unit and the Contact Hours 15 15 15 15 15 60 mination: 70 70

• Mid-Term Exam:	15					
Part C- Learning Resources						
Recommended Books/e-resources	MS:					
• Golombisky, K., & Hagen, R	(2017). White space is not your enemy: A beginner's guide to					
communicating visually throu	sh graphic, web & multimedia design. CRC Press.					
• Harrington, R. (2012). Under	anding Adobe Photoshop CS6: The essential techniques for imagi					
professionals. Peachpit Press.						
• Gulbins, J. (2013). Mastering	Photoshop layers: A photographer's guide. Rocky Nook.					

	Session: 2024-25						
	Part	A - Introduct	ion				
Name of	f Programme	M.Sc. Graphi	c Animation and Mult	imedia			
Semeste	er	First					
Name o	of the Course	Multimedia Te	echnologies				
Course	Code	M24-GAM-10	3				
Course	Туре	CC-3					
Level of	f the course	400-499					
Pre-requ	uisite for the course (if any)						
	Learning Outcomes (CLO)		stand the file organization	tion of different			
	ompleting this course, the learner will						
be able t	to:		the knowledge of	various multimedia			
			s and kiosks.				
			the linking inputs of i	nterconnected			
		multimedia sys		with a dia contant			
Creatite			to secure the created n Practical				
Credits		Theory		Total			
Teaching	ng Hours nor weak	4	0	4 4			
	ng Hours per week Assessment Marks	30	0	4 30			
	rm Exam Marks	70	0	70			
Max. M		100	0	100			
	ation Time		3 hours				
	Part B-C	ontents of the	e Course				
unit and compulse examinee	ions for Paper- Setter: The examin one compulsory question by taking c ory question (Question No. 1) will e will be required to attempt 5 que ory question. All questions will carry	ourse learning consist at lease estions, selecting equal marks.	outcomes (CLOs) into st 4 parts covering en	consideration. The ntire syllabus. The			
I		opics		15			
	Multimedia Elements, Multimedia A Architecture, Multimedia Databases Image Compression Schemes, Color compression, video Image compress File format standards- RTF, TIFF, R	s; Types of Cor ;, gray scale, sti ion, audio com	npression, Binary Ill-video image pression; Data and	15			
11	II Key Technology Issues, Pen Input, Video and Image Display Systems, Print Output Technologies, Image Scanners, Digital Voice and Audio, Video Images and Animation, Full Motion Video; Magnetic Media Technology, Optical Media, WORM optical drives, Cache Management for storage systems.						
III							
IV	Secured Multimedia, Digital Rights Trends, Multimedia encryption, Dig Multimedia Authentication, Pattern,	ital Watermark	ing, Security Attacks; ehavior Recognition,	15			
			Total Contact Hours	60			

Suggested Evaluation Methods						
Internal Assessment: 30		End Term Examination: 70				
> Theory	30	> Theory:	70			
Class Participation:	5	Written Ex	xamination			
• Seminar/presentation/assignment/quiz/class test etc.:	10					
• Mid-Term Exam:	15					
Part C-Learning	Resc	ources				
Recommended Books/e-resources/LMS:						
• Weixel, Fulton, Barksdale.Morse, "Multimedia I	Basics	s", Easwar Press 2004	4.			
• Andleigh PK and Thakrar K, "Multimedia Syste	ns", .	Addison Wesley Lon	gman, 1999.			
• Fred Halsall, "Multimedia Communications", Ad	ldiso	n Wesley, 2000.				
 Ralf Steinmetz, KlaraNahrstedt, "Multimedia, computing, communications and applications", Prentice Hall, 1995. 						

• Tay Vaughan, "Multimedia making It work", TMH 5th Edition 2001.

Se	ession: 2024-25					
Part	A - Introducti	ion				
Name of the Programme	M.Sc. Graphic	Animation and Multi	media			
Semester	First					
Name of the Course	Visual Art and Creativity					
Course Code	M24-GAM-10	4				
Course Type	PC-1					
Level of the course	400-499					
Pre-requisite for the course (if any)						
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	art, including harmony, tex	erstanding the elemen g color, composition, f xture and space.	form, balance,			
		evelop skills in obse				
		e technical skill and ar	<u>1</u>			
		eriment with various t	echniques of			
		g and painting erstand and apply designment completion.	ign process from			
Credits	Theory	Practical	Total			
	0	4	4			
Teaching Hours per week	0	8	8			
Internal Assessment Marks	0	30	30			
End Term Exam Marks	0	70	70			
Max. Marks Examination Time	0	100 4 hours	100			
	L Contents of the					
Practical			Contact Hours			
1. Dimensions of creativity in v			120			
2. Practice of Basic drawing						
3. Contour drawing, Gesture dr	awing					
4. Basic Shapes of Art						
5. Shading Techniques						
6. Working with the elements of	of art (line, shap	e, form, color,				
texture, space)						
7. Working with on the princip						
8. Two Exercises on Still life d	rawing.					
9. Typography Practice						
10. Creating Perspective and Pro						
11. Discussion on Anatomy and12. Create Three Caricatures	Create Tour exe	ercises				
13. Working with painting mater	rials (watercolo	urs acrylice oile)				
14. Discussion on Colour theory		uis, uci y 1105, 0115 <i>)</i>				
15. Painting exercises (landscap		ract).				
16. Warli Art and Gond Art drav	•	·····••/•				
17. Creating Mandala Art on Ca						
18. Dot painting Techniques Pra						
19. Stone Art Practice						
20. Glass Painting or Mirror Ima	nge Art Practice)				

Suggested Evaluation Methods							
Internal Assessment: 30		End Term Ex	amination: 70				
> Practicum	30	Practicum	70				
Class Participation:	5	Lab record, Viva-Voce, write-up and execution of the practical					
• Seminar/Demonstration/Viva-voce/Lab records etc.:	10						
• Mid-Term Exam:	15						
Part C-Learning	Reso	ources					
Recommended Books/e-resources/LMS:							
Indian painting by Lokesh Chandra Sharma							
Indian cartoon Art by Veena Bansal	 Indian cartoon Art by Veena Bansal Aesthetic of art, Krishna's publisher, Author Nupur Sharma 						
• Aesthetic of art, Krishna's publisher, Author Nupu	ır Sh	arma					
Graphic design by Narender Singh Yadav							

Session: 2024-25					
Part	A - Introduct	ion			
Name of the ProgrammeM.Sc. Graphic Animation and Multimedia					
Semester	First				
Name of the Course	Digital Design Lab				
Course Code	M24-GAM-105				
Course Type	PC-2				
Level of the course	400-499				
Pre-requisite for the course (if any)					
Course Learning Outcomes (CLO)	CLO: 1. Understand the difference between different				
After completing this course, the learner will	rill graphics and image file formats.				
be able to:	able to: CLO: 2. Understand Vector Graphic tools.				
	CLO: 3. Kno	ow About Design Proc	cess.		
	CLO: 4. L Graphi	earn the Technique	s to Create Digital		
Credits	Theory	Practical	Total		
	0	4	4		
Teaching Hours per week	0	8	8		
Internal Assessment Marks	0	30	30		
End Term Exam Marks	0	70	70		
Max. Marks	0	100	100		
Examination Time		4 hours			
Part B-C Practical'	ontents of the	Course	Contact Houng		
1. Create five Logos	8		Contact Hours 120		
2. Draw two Posters			120		
3. Make a Web Banner					
4. Make two Hoardings 5. Create Emailers					
6. Make four Flyers					
7. Make two Magazine covers					
8. Make Two Newspaper Adve	rtisement				
9. Infographics Discussion 10. Make a Trifold brochure					
11. Make a French fold brochure	<u>x</u>				
12. Create a Gatefold brochure	·				
13. Make Bi fold brochure					
14. Create a Accordian brochure					
15. Create Five PowerPoint pres 16. Make a Webpage	entations				
17. Typography Practice					
18. Packaging Drawing Practice					
19. Make a Vehicle wrap design					
20. Make a Mock up design	d Evaluation N	lethods			
Internal Assessment: 30		End Term Ex	amination: 70		
Practicum	30	Practicum	70		
Class Participation:	5	Lab record, Viva-V	Voce, write-up and		
Seminar/Demonstration/Viva-voce/Lab re-	cords etc.: 10	execution of	the practical		
• Mid-Term Exam:	15				
Part C-I	Learning Reso	ources			
 Recommended Books/e-resources/LMS: Corel Draw Training Guide Author: Satis 	h Iain M Geet	ha Basics of Illustration	on		
Corel Draw Training Guide, Author: Satish Jain, M. Geetha Basics of Illustration					

- Corel draw 2020 User Guide
- A Textbook of Vector Calculus by Shanti Narayan (Author), P.K. Mittal (Author)
- Guide to Graphics Design by Scott W. Santoro, Library of Congress Cataloging-in-Publication Data, ISBN 978-0-13-230070-4 (pbk.)
- Graphic Designer's Essential Reference, Visual Elements, Techniques, and Layout Strategies for Graphic Designers by Timothy Samara, ROCKPORT PUBLISHER

Session: 2024-25				
Name of the Programme	M.Sc. Graphic Animation and Multimedia			
Semester	First			
Name of the Course	Seminar			
Course Code	M24-GAM-106			
Course Type: (CC/DEC/PC/Seminar/CHM/OEC/EEC)	Seminar			
Level of the course	400-499			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Demonstrate a technical knowledge of their selected seminar topic. CLO2: Effective presentation and improve soft skills.			
Credits	Seminar			
	2			
Teaching Hours per week	2			
Max. Marks	50			
Internal Assessment Marks	0			
End Term Exam Marks	50			
Examination Time	1 hour			
Instructions for Examiner: Evaluation of the on the parameters as decided by staff council examination/viva-voce examination.	e seminar will be done by the internal examiner(s) of the department. There will be no external			

SEMESTER-II

Se	ession: 2024-25				
Part	A - Introducti	on			
Name of Programme M.Sc. Graphic Animation and Multimedia					
Semester	Second				
Name of the Course	Animation Techniques				
Course Code	M24-GAM-201				
Course Type	CC-4				
Level of the course	400-499				
Pre-requisite for the course (if any)	y)				
Course Learning Outcomes (CLO)	CLO 1: Understand about the origin and development of				
After completing this course, the learner will	will animation. CLO 2: Know about the different Styles of Animation				
be able to:		the word.	les of Animation		
		n Different Principals of	Animation		
	CLO 4: Unde	erstanding of Animation	industry and its scope		
	in differ	rent areas.			
Credits	Theory	Practical	Total		
	4	0	4		
Teaching Hours per week	4	0	4		
Internal Assessment Marks	30	0	30		
End Term Exam Marks	70	0	70		
Max. Marks	100	0	100		
Examination Time		3 hours			
Part B-C Instructions for Paper- Setter: The examir	Contents of the				
unit and one compulsory question by taking c compulsory question (Question No. 1) will examinee will be required to attempt 5 que compulsory question. All questions will carry Unit Te	consist at lease estions, selectin	st 4 parts covering en	ntire syllabus. The		
I Ancient Origin of animation	-pres		15		
Development of Animation: 19 th Ce	ntury. Early 20 ^t	^h Century, Golden			
Age of Animation		contary, contari			
Techniques of Animation: Cel Anim	nation / Frame b	y Frame, Traditional			
Animation, Stop Motion Animation	, Computer Ani	mation $-2D$, $3D$,			
Particles Animation and VFX.					
Animation Styles: Anime, Manga-In	nspired Animati	on, Weston's,			
Filipino Animation					
II 12 Principals of Animation			15		
12 Thepus of Thinhadon	nose to nose		15		
Compare: Straight ahead action and		and Post Production	15		
Compare: Straight ahead action and Pipeline of Animation: Pre-Producti	on, Production		15		
Compare: Straight ahead action and Pipeline of Animation: Pre-Producti Compare production process of 2D	on, Production				
Compare: Straight ahead action and Pipeline of Animation: Pre-Producti	on, Production and 3D Animat	ion	15		
Compare: Straight ahead action and Pipeline of Animation: Pre-Producti Compare production process of 2DIIIPersistence of Vision: Illusion and I LightBox, FlipBook , Frame with ty	on, Production and 3D Animat Motion of Illusi ppes, X-Sheet	on			
Image: Straight and action and Pipeline of Animation: Pre-Producti Compare production process of 2DIIIPersistence of Vision: Illusion and I LightBox, FlipBook , Frame with ty Frame Rate (FPS): 8fps, 10fps, 12fp	Motion of Illusi pes, X-Sheet os, 24fps, 30fps,	ion on 60fps, 120fps			
IIIPersistence of Vision: Illusion and Pipeline of Animation: Pre-Producti Compare production process of 2DIIIPersistence of Vision: Illusion and I LightBox, FlipBook , Frame with ty Frame Rate (FPS): 8fps, 10fps, 12fp Stop Motion Animation: Cut-Out A	Motion of Illusi pes, X-Sheet os, 24fps, 30fps,	ion on 60fps, 120fps			
Image: Straight and action and Pipeline of Animation: Pre-Producti Compare production process of 2DIIIPersistence of Vision: Illusion and I LightBox, FlipBook , Frame with ty Frame Rate (FPS): 8fps, 10fps, 12fp	Motion of Illusi pes, X-Sheet os, 24fps, 30fps,	ion on 60fps, 120fps			
IIICompare: Straight ahead action and Pipeline of Animation: Pre-Producti Compare production process of 2DIIIPersistence of Vision: Illusion and I LightBox, FlipBook , Frame with ty Frame Rate (FPS): 8fps, 10fps, 12fp Stop Motion Animation: Cut-Out A	on, Production and 3D Animat Motion of Illusi pes, X-Sheet os, 24fps, 30fps, nimation, Sand	ion on 60fps, 120fps Animation, Shadow			

Pioneers of Indian Animation: Uday Shankar,	Ram	Mohan, Rajendra		
Kumar, Rajiv Chilaka				
Cartoon Channels and about their Animation S	tyles	: Cartoon Network,		
Nickelodeon, Disney, Pogo, Hungama.	5			
Animation Studio and their role in growth of a	nima	tion: Warner Bros,		
Disney, Hanna-Barbera, Pixar, Dreamworks, A	ardn	nan		
		Total Contact Hours	60	
Suggested Evaluati	on N			
Internal Assessment: 30 End Term Examination: 70			amination: 70	
			-	
Theory	30	Theory:	70	
Class Participation:	30 5	Theory: Written Ex		
		•		
Class Participation:	5	•		
 Class Participation: Seminar/presentation/assignment/quiz/class test etc.: 	5 10 15	Written Ex		
 Class Participation: Seminar/presentation/assignment/quiz/class test etc.: Mid-Term Exam: 	5 10 15	Written Ex		
 Class Participation: Seminar/presentation/assignment/quiz/class test etc.: Mid-Term Exam: Part C-Learning	5 10 15 Resc	Written Ex		
Class Participation: Seminar/presentation/assignment/quiz/class test etc.: Mid-Term Exam: Part C-Learning Recommended Books/e-resources/LMS:	5 10 15 Reso	Written Ex Durces xar Animation Studios.	amination	
Class Participation: Seminar/presentation/assignment/quiz/class test etc.: Mid-Term Exam: Part C-Learning Recommended Books/e-resources/LMS: Lasseter, J. (2001). Principles of Traditional Animatic	5 10 15 Reso on. Pi	Written Ex Durces xar Animation Studios. visney Animation. Disne	amination ey Editions.	

- Hooks, E. (2017). Acting for Animators: A Complete Guide to Performance Animation. Routledge. ٠
- Birn, J. (2016). Digital Lighting and Rendering. New Riders.
 Whitaker, H., & Halas, J. (2009).

	Se	ssion: 2024-25			
	Part	A - Introducti	on		
Name o	f Programme	M.Sc. Graphic	Animation and Multin	nedia	
Semeste	-	Second			
Name o	of the Course	Multimedia Programming			
Course	Code	M24-GAM-202			
Course	Туре	CC-5			
Level o	f the course	400-499			
	uisite for the course (if any)				
	Learning Outcomes (CLO) ompleting this course, the learner will	CLO 1: Und	Types and		
be able	1 0	ill Statements CLO 2: Learn the Basic Programming using tags. CLO 3: Study the Networking Approaches. CLO 4: Learn the database system.			
Credits	5	Theory	Practical	Total	
		4	0	4	
Teachi	ng Hours per week	4	0	4	
	Assessment Marks	30	0	30	
	rm Exam Marks	70	0	70	
Max. M		100	0	100	
Examin	nation Time	Contents of the	3 hours		
Unit	ory question. All questions will carry	equal marks. pics		Contact Hours	
I Fundamental of Computer Programming, Programming Environment, Basic Syntax, Data Types, Variables, Keywords, Basic Operators, Decision Making, Control Statements, Numbers, Characters, Arrays, Strings Functions				15	
II	15				
Block and Text level ElementsIIIWeb Development: Introduction to web applications, Client-Side Vs Server-Side Scripting Web Servers: Local Servers and Remote Servers, Internet Information Server (IIS), Personal Web Server (PWS) Static website vs Dynamic website development, Introduction to PHP Framework, Basic PHP syntax, Data types in PHP, Variables, Constants, operators and Expressions, Control statements, Arrays, String, Functions				15	
Arrays, String, Functions IV SQL and Database Management Introduction to Sql: Creating Databases and Tables Sql Queries: Inserting, Deleting, Updating Data, Joins Sorting and Filtering Data Querying Sql Database in PHP			• -		

		Total Contact Ho	ours 60
Suggested Evaluati	on M		
Internal Assessment: 30		End Term	Examination: 70
> Theory	30	> Theory:	70
• Class Participation:	5	Written Examination	
• Seminar/presentation/assignment/quiz/class test etc.:	10		
• Mid-Term Exam:	15		
Part C-Learning	Reso	urces	
Recommended Books/e-resources/LMS:			
• Mercer, Kent, Nowicki, Squier and Choi, "Begin	ning	PHP5", John Wile	y & Sons, Inc., 2004.
 Jeffrey C. Jackson, "Web Technologies: A Comp 2006. 	outer S	Science Perspectiv	e", Pearson Education
 Chris Bates, "Web Programming – Building Intra Edition, 2009. 	anet a	pplications", Wile	y Publications, 3rd
• Deitel, Deitel& Nieto, "Internet and World Wide	Web	- How to Program	n", References:
• HTML & CSS: THE COMPLETE REFERENCE	E by <u>1</u>	Thomas Powell	
• HTML & CSS Easy learn in 7 Days by <u>Albert In</u>	ıdaya	<u>Raj J</u>	
• Let Us C: Authentic guide to C programming lan	guag	e - 19th by <u>Yashav</u>	ant
Kanetkar (Author)			

<u>Kanetkar</u> (Author)
Programming in ANSI C || 9th Edition || by Balagurusamy || McGraw Hill by <u>E Balagurusamy</u>

	Session: 2024-25				
	Part A - Introduction				
Name of	Name of Programme M.Sc. Graphic Animation and Multimedia				
Semeste	· · ·	Second			
Name of	f the Course	User Interface & User Experience (UI /UX)			
Course	Code	M24-GAM-203			
Course '	Туре	CC-6			
Level of	f the course	400-499			
Pre-requ	uisite for the course (if any)				
	Learning Outcomes (CLO)	CLO 1: Generating design ideas based on well-defined			
	mpleting this course, the learner will	goals a	nd scenarios	interfecce voir a	
be able t	to:	design	eloping impactful user systems	interfaces using	
			bloying Wire framing, j	prototyping, and	
		testing	tools for design evalua	tion	
			lying user-centered de	sign principles to	
		enhanc	e User Experiences		
Credits		Theory	Practical	Total	
cicaits		4	0	4	
Teachir	ng Hours per week	4	0	4	
	Assessment Marks	30	0	30	
End Ter	rm Exam Marks	70	0	70	
Max. M		100	0	100	
Examina	ation Time		3 hours		
Part B-Contents of the Course Instructions for Paper- Setter: The examiner will set 9 questions asking two qu					
Instruction	uestions from each				
	one compulsory question by taking co ory question (Question No. 1) will				
examinee	e will be required to attempt 5 que	stions, selectin	g one question from	each unit and the	
	bry question. All questions will carry				
Unit	То	pics		Contact Hours	
I	Concept of User Interface Design (U	T)		15	
	Scope of Interface Design	,			
	Process of UI Design: Empathize, D	efine Ideate D) Peliver Test /		
	Components	erine, ideate, E	venver, rest/		
	Elements of UI Design: Input Controls, Navigation Components, Informational Components, Containers.				
	Principles of UI Design				
	Clarity, Consistency, Accessibility, I Standards, Structure and Hierarchy,				
	Types of UI Design				
II	Concept of UV Decien			15	
	Concept of UX Design				
	Process of UX Design: Product Defin Design, Validation (Testing)	nition, Product	Research, Analysis,		

	8 Stages: Project Definition and Scope, Unders Research, Ideation (Sketching and low fidelity fidelity mockups and prototype, Usability Testi Quality Assurance or UX Audit.	prot	otypin	g), High	
	Elements of User Experience				
	Functional Layout & Interaction design				
	UX Principles: Doherty Threshold, Occam's Ra Postel's Law, Tesler's Law	azor,	Pareto	Principle,	
III	Gestalt Principles				15
	Concept of Microcopy				
	Concept of Wireframing: low fidelity and high				
	Difference Between UI and UX				
IV	Concept of Grids				15
	User Persona and Scenario				
	Concept Of Prototypes				
	Market Competitive Analysis				
	Research Methodology				
				al Contact Hours	60
	Suggested Evaluation	on N	iethod	ls End Term Exa	mination: 70
> Th		30	A	Theory:	70
-	Participation:	5	-	Written Exa	-
	nar/presentation/assignment/quiz/class test etc.:	10			

Part C-Learning Resources Recommended Books/e-resources/LMS:

• Mid-Term Exam:

• A Project Guide to UX Design: For user experience designers in the field or in the making (2nd. ed.). Russ Unger and Carolyn Chandler. New Riders Publishing, USA, 2012.

15

- The Elements of User Experience: User-Centered Design for the Web and Beyond, Second Edition Jesse James Garrett, Pearson Education. 2011.
- The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques, Third Edition by Wilbert O. Galitz, Wiley Publishing, Inc.
- Adobe XD in CC,Classroom in a Book, The official training workbook from Adobe By Brian Wood, ADOBE PRESS
- The UX Book Process and Guidelines for Ensuring a Quality User Experience, Rex Hartson and Pardha S. Pyla, Elsevier, 2012

ession: 2024-25					
A - Introductio	n				
M.Sc. Graphic	Animation and Multir	nedia			
Second					
Production Lab					
M24-GAM-204					
400-499					
CLO: 1 Unde	erstand the concents o	f web designing			
CLU: 2Know					
CLO: 3.Able	to apply principals of	f animation by using			
		motion onimation			
		Total			
		4			
-		8			
		30			
		70			
0		100			
	Course				
's		Contact Hours			
		120			
eader>, <main>, a</main>	nd <footer>.</footer>				
	l, password,				
outton).					
	on>, and tags.				
ger versions.					
ige.					
ts its layout based	on the screen size				
t-family, font-size	e, font-weight, color,				
1 1 11	Box Model Practice: Create a box with a border, padding, and margin to understand the CSS box model.				
n a border, padding	g, and margin to				
n a border, padding	g, and margin to				
	g, and margin to gation bar or a grid of				
a responsive navig	ation bar or a grid of				
a responsive navig					
a responsive navig	ation bar or a grid of				
a responsive navig images responsive	ation bar or a grid of , ensuring they scale				
a responsive navig images responsive rithmetic operation	ation bar or a grid of , ensuring they scale				
a responsive navig images responsive rithmetic operation	ation bar or a grid of , ensuring they scale				
	M.Sc. Graphic A Second Production Lab M24-GAM-204 PC-3 400-499 CLO: 1. Unde CLO: 2Know CLO: 3.Able tradition CLO: 4. Lear Theory 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A - Introduction M.Sc. Graphic Animation and Multir Second Production Lab M24-GAM-204 PC-3 400-499 CLO: 1. Understand the concepts of CLO: 2Know the process of Web d CLO: 3.Able to apply principals of tradition animation. CLO: 4. Learn the concept of stop Theory Practical 0 4 0 8 0 30 0 30 0 100 4 hours 2 Contents of the Course 3 's			

7. Prime Number Checker			
Write a program to check if a given number is prin	ne.		
Array Manipulation		ding the movimum and	1
Implement functions to perform operations on arra			
minimum values, calculating the average, and sort order.	ing in	e array in ascending	
8. Welcome message Script			
Write a PHP script that prints "welcome message!	" to th	e web nage	
Basic Form Handling: Create an HTML form that			
(name, email) and process the form data using PH			
information on a new page.			
9. Simple Calculator			
Develop a PHP script that performs basic arithmet	ic ope	rations (addition,	
subtraction, multiplication, and division) based on			
String Manipulation: Write a PHP script that takes			
various manipulations: convert to uppercase, lowe	rcase,	reverse the string, and	
find the length of the string.			
10.Functions practice			
Call by value			
Call by reference			
Recursion	• •	• 1 1	
11. Timing and Spacing Bases exercise by us		-	
12. Straight a Head action and Pose to Pose	to ac	tion by using	
tradition animation techniques			
13. Anticipation and Secondary action Expe			
14. Squash and Stretch and Exaggeration in	1 obje	ct and character	
15. Staging Experiment by using different co	ompos	ition techniques	
16. Control Speed by using Stop motion anim	nation	technique	
17. Cut out animation experiment			
18. Experimental with different medium by	using	stop motion	
animation techniques	C		
19. Create GIF Files by Using Computer Bas	sed Ai	nimation	
20. Understand the concept of Tweening an	nd Or	ion Skin	
Suggested Evaluat	ion N	lethods	
Internal Assessment: 30		End Term Ex	amination: 70
> Practicum	30	Practicum	70
Class Participation:	5	Lab record, Viva-V	Voce, write-up and
• Seminar/Demonstration/Viva-voce/Lab records etc.	10	execution of	the practical
• Mid-Term Exam:	15		
Part C-Learning		ources	
Recommended Books/e-resources/LMS:			
• Mercer, Kent, Nowicki, Squier and Choi, "Beginning	ng PH	P5", John Wiley & Son	s, Inc., 2004.
Mercer, Kent, Nowicki, Squier and Choi, "BeginninJeffrey C. Jackson, "Web Technologies: A Comput	-	-	

- 2009.Deitel, Deitel& Nieto, "Internet and World Wide Web How to Program", References:
- HTML & CSS: THE COMPLETE REFERENCE by Thomas Powell
- HTML & CSS Easy learn in 7 Days by <u>Albert Irudaya Raj J</u>
- Let Us C: Authentic guide to C programming language 19th by <u>Yashavant Kanetkar</u> (Author)
- Programming in ANSI C || 9th Edition || by Balagurusamy || McGraw Hill by E Balagurusamy

Se	ssion: 2024-25				
Part	A - Introduct	ion			
Name of the Programme	e of the Programme M.Sc. Graphic Animation and Multimedia				
Semester	Second				
Name of the Course	3D Modeling & Texturing				
Course Code	M24-GAM-205				
Course Type	PC-4				
Level of the course	400-499				
Pre-requisite for the course (if any)					
Course Learning Outcomes (CLO)	CLO: 1. Know about 3D Modeling concept				
After completing this course, the learner will be able to:	r will CLO: 2. Know about the different techniqu Modeling				
	CLO: 3. Und	lerstand Texture & Shad	ing WUU		
Credits		velop knowledge of U Practical	Total		
Creatis	Theory				
Teaching Hours not weak	0	4	4		
Teaching Hours per week Internal Assessment Marks	0	<u>8</u> 30	<u>8</u> 30		
End Term Exam Marks	0	70	70		
Max. Marks	0	100	100		
Examination Time		4 hours	100		
Part B-C	ontents of the				
Practical'	S		Contact Hours		
1. Working on Interface, Tools and	Panels		120		
2. Creating Project and Reference S	Setup				
3. Polygon Modeling Technique Pr	actice				
Working with Elements of polyg					
5. Working with Modifiers: Twist,		form, Smooth, Mesh			
Smooth, Boolean and Symmetry					
6. Working with Editing Tools: Att					
Extrude, Bridge, Insert Vertex, V		eld, Connect			
7. Nurbs Modeling Technique Prac					
8. Working on EP and CV curve to					
9. Create Environment and Scenes	Modeling				
10. Create a Lower Body Modeling	of Character				
11. Create a Upper Body Modeling	of Character				
12. Create Face and Head Modeling					
13. Working on Objects and Gaming	g Assets Model	ing			
14. Practice on UV Projections: Plan		ndrical Maps,			
Spherical Maps, Automatic Map					
15. Working on Hyper-shade Editor					
16. Work using UV Editor and UV					
17. Create 2d Texture in Adobe Pho					
18. Environment and Scenes Texturi					
19. Low Poly Game Assets Texturin					
20. Character Skin Texturing Practic					

Suggested Evaluation Methods				
Internal Assessment: 30		End Term Examination: 70		
Practicum	30	Practicum	70	
Class Participation:	5	Lab record, Viva-	Voce, write-up and	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	10	execution of	the practical	
• Mid-Term Exam:	15			
Part C-Learning Resources				
Recommended Books/e-resources/LMS:				

- Autodesk Maya 2019 Workbook Author: Sham Tickoo
- Advanced Maya Texturing and Lighting Paperback Illustrated, 29 May 2015 by Lee Lanier .
- Mastering Autodesk Maya 2016: Autodesk Official Press BY Palamar T.
- Chris Legaspi, Anatomy for 3D Artists: The Essential Guide for CG Professionals, 3dtotal Publishing, 2015, ISBN: 978-1909414242
- Lee Lanier, Advanced Maya Texturing and Lighting, Sybex, 2015, ISBN: 978-1118983522

Se	ession: 2024-25			
Part	A - Introducti	ion		
Name of the Programme	Common to all PG Programmes			
Semester	Second			
Name of the Course	Constitutional, Human and Moral Values, and IPR			
Course Code	M24-CHM-201			
Course Type	СНМ			
Level of the course	400-499			
Pre-requisite for the course (if any)	-			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	 CLO-1: Learn the different Constitutional Values, Fundamental rights and duties enshrined in the India Constitution. CLO-2: Understand humanism, human virtues and values, and idea of international peace. CLO-3: Grasp the basic concepts of Moral Values and Professional Conduct which are required to become a part of the civil society and for developing professionalism. CLO-4: Understand concepts of Intellectual Property Rights, Copyright, Patent, Trademark etc., and about threats of Plagiarism. 			
Credits	Theory	Practical	Total	
	2	0	2	
Teaching Hours per week	2	0	2	
Internal Assessment Marks	15	0	15	
End Term Exam Marks	35	0	35	
Max. Marks	50	0	50	
Examination Time		3 hours		
Instructions for Paper- Setter: The examination unit and one compulsory question by taking compulsory question (Question No. 1) will examinee will be required to attempt 5 question.	course learning of consist at leas estions, selectin	uestions asking two quotecomes (CLOs) into st 4 parts covering er	consideration. The tire syllabus. The	
compulsory question. All questions will carry			~ ~ ~	
	pics		Contact Hours	
I Constitutional Values: Historical Perspective of Indian Constitution; Basic Values enshrined in the Preamble of the Indian Constitution; Concept of Constitutional Morality; Patriotic Values and Ingredients Nation Building; Fundamental Rights and Duties; Directive Principles of the State Policy.			8	
II Humanistic Values: Humanism, Human Virtues and Civic Sense; Social Responsibilities of Human Beings; Ethical ways to deal with human aspirations; Harmony with society and nature; Idea of International Peace and Brotherhood (Vasudhaiv Kutumbkam).			7	
III Moral Values and Professional Conduct Understanding Morality and Moral Values; Moral Education and			8	

Character Building; Ethics of Relations:				
	Pe	ersonal, Social and	1	
Professional; Introduction to Gender Sensitization; Affirmative approach				
towards Weaker Sections (SCs, STs, OBC				
Conduct in Higher Education Institutions; Prof		,,		
IV Intellectual Property Rights:	7			
Meaning, Origins and Nature of Intellectual Property Rights (IPRs);				
Different Kinds of IPRs – Copyright, Patent, Trademark, Trade				
Secret/Dress, Design, Traditional Knowle				
Offences of IPRs – Remedies and Penalties; B	0	Ũ		
of UGC.		U I I		
Note: Scope of the syllabus shall be restricted	d to	generic and		
introductory level of mentioned topics.				
Total Contact Hours		s 30		
Suggested Evaluation	on N		aminations 25	
Internal Assessment: 15	15	End Term Ex		
> Theory	15	> Theory	35	
• Class Participation:	4	Written Ex	amination	
• Seminar/presentation/assignment/quiz/class test etc.:				
• Mid-Term Exam:	7			
Part C-Learning Recommended Books/e-resources/LMS:	Reso	ources		
New Delhi, 20th ed., 2008. Dhar, P.L. & R.R. Gaur, <i>Science and Humanism</i> , Commo George, Sussan, <i>How the Other Half Dies</i> , Penguin Press Govindarajan, M., S. Natarajan, V.S. Sendilkumar (<i>Values</i>), Prentice Hall of India Private Ltd, New Delhi, 2 Harries, Charles E., Michael S. Pritchard & Michael J. New Delhi, 2003.	s, 19 eds.) 004. Roł	76. , Engineering Ethic. pins, Engineering Eth	s (Including Humar	
llich, Ivan, <i>Energy & Equity</i> , Trinity Press, Worcester, 1 Meadows, Donella H., Dennis L. Meadows, Jorgen Rand <i>Club of Rome's Report</i> , Universe Books, 1972. Myneni, S.R, Law of Intellectual Property, Asian Law Hou	ders		ns, Limits to Growth	
Meadows, Donella H., Dennis L. Meadows, Jorgen Rand Club of Rome's Report, Universe Books, 1972.	ders use. Righ Prot	& William W. Behren ets, India, IN: PHI lean ectionand Manageme	rning Private nt. India, IN:	

Reddy, N.H., SantoshAjmera, Ethics, Integrity and Aptitude, McGraw Hill, New Delhi.

Sharma, Brij Kishore, Introduction to the Constitution of India, New Delhi,

Schumacher, E.F., Small is Beautiful: A Study of Economics as if People Mattered, Blond & Briggs, Britain, 1973.

Singles, Shubham et. al., *Constitution of India and Professional Ethics*, Cengage Learning India Pvt. Ltd., Latest Edition, New Delhi, 2018.

Tripathy, A.N., *Human Values*, New Age International Publishers, New Delhi, 2003.
Wadehra, B.L., Law relating to Intellectual Property, Universal Law Publishing Co. **Relevant Websites, Movies and Documentaries:** *Value Education Websites*, http://uhv.ac.in, http://www.uptu.ac.in. *Story of Stuff*, http://www.storyofstuff.com
Cell for IPR Promotion and Management: http://cipam.gov.in/.
World Intellectual Property Organization: https://www.wipo.int/about-ip/en/
Office of the Controller General of Patents, Designs & Trademarks: http://www.ipindia.nic.in/
Al Gore, *An Inconvenient Truth*, Paramount Classics, USA.
Charlie Chaplin, *Modern Times*, United Artists, USA. *Modern Technology – The Untold Story*, IIT, Delhi.
A. Gandhi, *Right Here Right Now*, Cyclewala Productions.