SCHEME OF EXAMINATION & SYLLABUS

of

UG Programme (Interdisciplinary)

B.Sc. (Graphics & Animation) Scheme: D

As per National Education Policy 2020

(Multiple Entry-Exit, Internships and Choice Based Credit System)

w.e.f. Academic Session: 2023-2024(In Phased Manner)



INSTITUTE OF MASS COMMUNICATION & MEDIA TECHNOLOGY

Kurukshetra University, Kurukshetra

(A+ Grade NAAC Accredited)

under

Faculty of Commerce and Management, Kurukshetra University, Kurukshetra

GENERAL INSTRUCTIONS FOR EXAMINERS / PAPER SETTERS / SUBJECT TEACHERS

EVALUATION AND EXAMINATION

- The students will be assessed through a system of Continuous Comprehensive Assessment (CCA).
- Evaluation will be done by Internal assessment (broadly 30% of total weightage) and by end term exam for rest 70%).

Theory Internal Assessment shall broadly based on the following defined composition:

- a) Class Participation
- b) Seminar/Presentation/Assignment/Quiz/Class Test, etc.
- c) Mid-Term Exam

Total Internal Assessme nt Marks	Class Participati on	Seminar/Demonstration/Presentation/ Assignment/Quiz/Class Test, etc.	Mid- Term Exam
10	03	02	05
15	04	04	07
20	05	05	10
25	05	07	13
30	05	10	15

Practical Internal Assessment shall broadly be based on the following defined composition:

- a) Class Participation
- b) Seminar/Presentation/Viva-voce/Lab Records, etc.
- c) Mid-Term Exam

Total Internal Assessment Marks (Practical)	Class Participation	Seminar/Demonstration/Viva- Voce/Lab Record etc.	Mid-Term Exam		
05	-	05	NA		
10	-	10	NA		
15	05	10	NA		
30	05	10	15		

MODE OF PAPER SETTING FOR END-TERM EXAMINATION:

Every course irrespective of credit will have an End-Term Examination with every course paper having 09 questions in all. Question No. 1 containing short notes will be compulsory. The students will have to attempt five questions in all selecting at least 1 question from each unit. Duration of the exam will be 3 hours irrespective of credit. These questions shall judge both theoretical and applied knowledge of the students. Case studies may also be given as questions.

Abbreviations used

Abbreviation	Description
AEC	Ability Enhancement Course
C	Credit
CC	Core Course
СС-Н	Core Course in Honours Programme (Subject/Discipline)
CC-HM	Core Course in Minor Subject of Honours Programme
CC-M	Core Course in Minor Subject
DSE	Discipline Specific Elective Course
	Discipline Specific Elective Course in Honours Programme
DSE-H	(Subject/Discipline)
DSEC	Discipline Specific Skill Enhancement Course
MCC	Core Course in Major Subject
MDC	Multidisciplinary Course
PC	Practicum Course
PC-H	Practicum Course in Honours Programme
SEC	Skill Enhancement Course
UG	Under Graduate
V/VOC	Vocational Course
VAC	Value Added Course

Scheme of Examination of UG Programme (Interdisciplinary) B.Sc. (GRAPHICS AND ANIMATION)Scheme: D in accordance with NEP 2020 (Multiple Entry-Exit, Internships and Choice Based Credit System) w.e.f. Academic Session 2023-24(In Phased Manner)

Semester-I

Course Code	Course Title	Course Type		Contact Hours per Week			Credits	Marks					Duration of Exam
		1,700	L	Т	P	Total		T	IA (T)	P	IA (P)	Total	or Laum
B23-GAG- 101	Digital Art & Sketching	CC-A1	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 102	Communication Design	CC-B1	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 103	Fundamentals of Animation	CC-C1	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 104	Computer Applications	CC- M1	2	-	-	2	2	35	15	-	-	50	3 Hours
B23-GAG- 105	Graphics Design-I	MDC-	2	-	2	4	3	35	15	20	05	75	3 Hours
	As Available In Pool Of Subjects Approved By KUK	AEC-1	2	-	-	2	2	35	15	-	-	50	3 Hours
	As Available In Pool Of Subjects Approved By KUK	SEC-1	2	-	2	4	3	35	15	20	5	75	3 Hours
	As Available In Pool Of Subjects Approved By KUK	VAC-1	2	-	-	2	2	35	15	-	-	50	3 Hours
	•	•	•		•	Total C	Credits :24	Tota	l Marks			600	

Semester-II

Course Code	Course Title	Course Type	Cor		Hou	rs per	Credits		Ma	rks			Duration of Exam
			L	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23-GAG- 201	Digital Design and Raster Graphics	CC-A2	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 202	Experimental Animation Techniques	CC-B2	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 203	Comic Design and Character Anatomy	CC-C2	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 204	Science of Communication	CC- M2	2	-	-	2	2	35	15	-	-	50	3 Hours
B23-GAG- 205	Graphics Design-II	MDC-	2	-	2	4	3	35	15	20	05	75	3 Hours
	As Available In Pool Of Subjects Approved By KUK	AEC-2	2	-	-	2	2	35	15	-	-	50	3 Hours
	As Available In Pool Of Subjects Approved By KUK	SEC-2	2	-	2	4	3	35	15	20	5	75	3 Hours
	As Available In Pool Of Subjects Approved By KUK	VAC-2	2	-	-	2	2	35	15	-	-	50	3 Hours
						Total C	Credits :24	Tota	l Marks			600	

Internship of 4 credits of 4-6 weeks duration after 2th semester Exit Option: Under Graduate Certificate in B.Sc. Graphics and Animation with 52 credits.

Semester-III

Course Code	Course Title	Course Type		Contact Hours per Week			Credits		Ma	rks			Duration of Exam
			L	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23-GAG- 301	2D Animation	CC-A3	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 302	Print Design and Vector Graphics	CC-B3	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 303	3D Modeling and Texturing for Games	CC-C3	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 304	Web Designing	CC- M3	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 305	Experimental Animation	MDC-	2	-	2	4	3	35	15	20	05	75	3 Hours
	As Available In Pool Of Subjects Approved By KUK	AEC-3	2	-	-	2	2	35	15	-	-	50	3 Hours
	As Available In Pool Of Subjects Approved By KUK	SEC-3	2	-	2	4	3	35	15	20	5	75	3 Hours
	·					Total C	Credits :24	Tota	l Marks			600	

Semester-IV

Course Code	Course Title	Course Type		Contact Hours per Week			Credits	Marks					Duration of Exam
		. –	L	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23-GAG- 401	Compositing and Visual Effects	CC-A4	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 402	User Interface Design (UI)	CC-B4	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 403	3D Organic Modeling And Texturing	CC-C4	3	-	2	5	4	50	20	20	10	100	3 Hours
	As Available In Pool Of Subjects Approved By KUK	CC- M4(V)	-	-	-	-	4	-	-	-	-	100	3 Hours
	As Available In Pool Of Subjects Approved By KUK	AEC-4	2	-	-	2	2	35	15	-	-	50	3 Hours
	As Available In Pool Of Subjects Approved By KUK	VAC-3	2	-	-	2	2	35	15	-	-	50	3 Hours
	Total Credits :20 Tot							Tota	l Marks			500	

Internship of 4 credits of 4-6 weeks duration after 4th semester Exit Option: Under Graduate Diploma in B.Sc. Graphics and Animation with 96 credits.

Semester-V

Course Code	Course Title	Course Type	Co		Hou	rs per	Credits		Ma	rks			Duration of Exam
			L	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23-GAG- 501	Rigging and Lighting	CC-A5	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 502	Commercial Design	CC-B5	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 503	3D Creature Animation and Rendering	CC-C5	3	-	2	5	4	50	20	20	10	100	3 Hours
	As Available In Pool Of Subjects Approved By KUK	CC- M5(V)	-	-	-	-	4	-	-	-	-	100	3 Hours
	INTERNSHIP						4					100	
		•	•		•	Total (Credits :20	Tota	l Marks		•	500	

Semester-VI

Course	Course Title	Course	Contact Hours per Credits Marks					Duration					
Code		Type	We	ek									of Exam
			L	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23-GAG- 601	Visual Effect	CC-A6	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 602	Gaming Technology	CC-B6	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 603	UX Design	CC-C6	3	-	2	5	4	50	20	20	10	100	3 Hours
B23-GAG- 604	Artificial Intelligence and Cyber Security	CC- M6	3	-	2	5	4	50	20	20	10	100	3 Hours
	As Available In Pool Of Subjects Approved By KUK	CC- M7 (V)	-	-	-	-	4	-	-	-	-	100	-
	Total Credits :20						Total Marks				500		

Exit Option: Bachelor in Graphics and Animation (B.Sc. Graphics And Animation) with 132 credits

SEMESTER I

B23-GAG-101 Digital Art & Sketching

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Know about Art and Indian concept of Art and Diversity of Shapes.
- CLO 2: Know about the Color Concept and different Color schemes.
- CLO 3: Understand the Anatomy and Proportions of human body.
- CLO 4: Develop knowledge of Digital Drawing in Photoshop

UNIT	Topic		Contact Hours
UNIT- I	 Define Art Origin of Art: Study of Prehistoric Indian Art Visual Arts & Its Forms & Creative Pedagogies Diversity of Shapes, Form, Lines, Textures Drawing: Line, Contour, Stippling and Hatching Sketching and Concept Drawing Understanding of Light and Shadow Landscapes and Composition Mandala art: Concept Doodling: Concept 	CLO 1	12
UNIT- II	 Perception of Color and Color Wheel Mixing of Primary, Secondary and Tertiary Colors Tint, Shades, Hues, Tones. Warm Colors and Cool Colors. Different Color schemes (Complimentary, Split Complimentary, Analogous, Triadic etc. 	CLO 2	12
UNIT-III	 Pattern Design and 3D Design Perspectives on the Creative Process Anatomy & Proportions: Body Types, Poses, Facial Expression Painting: Water color, Pencil color Typography: Elements and Features 	CLO 3	12

	Calligraphy: Elements and Features		
UNIT- IV	 Overview of Photoshop Interface Understanding of Pen tool, Brush Tool and Brush Panel Shading and Painting techniques in Photoshop Use of Opacity, Flow and Pattern Digital Panting: Object, Character and Illustration 	CLO 4	12

- Drawing Anatomy
- Pencil shading techniques
- Still Life Drawing & Landscape drawing
- Cartoon character sketch
- Calligraphy & Typography
- Analogous Colors and Color Wheel
- Stone art and Mandala art
- Patterns and 2D design
- Textures and 3d Art
- Poster Designing
- Digital Illustrations (Digital Painting)

- Indian painting by Lokesh Chandra Sharma
- Indian cartoon Art by VeenaBansal
- Aesthetic of art, Krishna's publisher, Author Nupur Sharma
- Graphic design by Narender Singh Yadav

B23-GAG-102 Communication Design

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Become aware of the principles and elements of aesthetic including Indian concept.
- CLO 2: Understand the grammar of visual narratives.
- CLO 3: Gain the ability to compose visuals and visual narratives

- CLO 4: Develop creative problem-solving skills used in communicating visually as an artist.

UNIT	Торіс		Contact
			Hours
UNIT- I	 Historical overview of advertising and its evolution Advertising: Scope and features Elements of Advertising Principals of Advertising Process of Advertising Advertising Model: AIDA Model Understanding the role of graphic design in advertising Design Theory: Gestalt Principal, Visual Perception Graphic Communication: Meaning and Definition 	CLO 1	12
UNIT- II	 Meaning and Definition of Art Elements of Art: Point, Line, Form, Shape, Space, Colour, Texture, Value, Principles of Art: Balance, Rhythm, Harmony, Contrast, Proportion, Dominance, Unity Process of Designing and A-B Testing 	CLO 2	12
UNIT-III	 Aesthetics of Art: Origin of Aesthetics Meaning and definition of Aesthetics, importance of Aesthetics in arts and animation Indian concept of Aesthetics and theory of Ras, Bhava, Shadaang, Auchitya, Alankaar, Rasa Nispatti 	CLO 3	12
UNIT- IV	Golden Rules: Rule of Third, Golden Section,	CLO 4	12

Golden Triangles, Spiral Section, Diagonal, Radial,	
Perspective: One Point, Two Point and Three Point	
Positive & Negative space	

- Comparative Table of different logo designs
- Comparative Table of different Business Cads
- Icon designing by gestalt principal
- Logo Designing by rule of third
- Perspective drawing
- Testing

- Golombisky, K., & Hagen, R. (2017). White space is not your enemy: A beginner's guide to communicating visually through graphic, web & multimedia design. CRC Press.
- Smith, K. (2005). Handbook of visual communication: Theory, methods, and media.
- Lester, E (2000) Visual Communications: Images with Messages. Thomson Learning
- Schildgen, T (1998). Pocket Guide to color with digital applications. Thomsom Learning
- Picture this: Media Representation of Visual Arts and artists. University of Luton Press
- Palmer, Frederic: Visual Elements of Art and Design, 1989, Longman
- Porter, Tom and Goodman, Sue: Manual of Graphic Technique 2: For Architects,
- Graphic Designers, and Artists, 1982, Astragal Books. London
- Palmer. F: Visual Awareness (Batsford, 1972)

B23-GAG-103 Fundamentals of Animation

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Know the History of Animation
- CLO 2: Know about the Animation Industry.
- CLO 3: Learn production Stages and Means of Animation

CLO 4: Get complete knowledge of the different types of Animation

UNIT	Topic		Contact
			Hours
UNIT- I	 Introduction and Definitions of Animation Working and usage of: Zoetrope, Phenakistoscope and Thaumatrope. Types of Animation: Frame by Frame, Stop Motion, Clay Animation and Computer Animation Terms Used in Animation: FPS, Thumbnail, Blueprint, Pencil Test, Screenplay, Blocking and Animatics 	CLO 1	12
UNIT- II	 Overview of Animation Film History: Earlier Stage and Modern Era Walt Disney, Dream Works, Pixar, J-Stuart Blackton, Winsor Mc Cay Overview of Animated Television Channels: Cartoon Network, Discovery Kids, Disney, Pogo, Disney XD and ZEEQ. Indian Animation Industry Father of Indian Animation 	CLO 2	12
UNIT-III	 Pre-Production Idea Generation Story Writing: Structure & Genres Principals of Story Writing: Point of view, Characterization, Plot and Conflict. Script / Dialogue Writing: Types and Structure Model Sheet: Types and Features 	CLO 3	12

	 X-Sheet: Types and Features Storyboard: Structure & Advantages Sound Recording: Process and Features Animatics: Structure, Advantages and Process 		
UNIT- IV	 Production Layout and Illustrations Designing: Process and Features Key-Frames: Types and Uses In-betweens – Cleanups: Process and Features Rendering: Types and Process Post-Production Video Editing: Types Sound Mixing: Features Dubbing: Features Color Correction: Features Rendering Authoring 	CLO 4	12

- Create Concept of Story
- Script Concept
- Model Sheet
- Create Storyboard
- X-Sheet
- Sound Recording
- Animatics

- 'How to Write for Animation' by Jeffrey Scott's book
- THE TOOLS OF SCREENWRITING: A WRITER'S GUIDE TO THE CRAFT AND ELEMENTS OF A SCREENPLAY by David Howard and Edward Mobley; St. Martins/Griffin; New York; 1993.
- Storyboard Design course by Giuseppe Cristiano--- Barron's
- How to write for animation—Jeffery Scott
- The art of layout and storyboarding- Mark T. Byrne
- Egleiter, Marcie (2011) From Word to Image: Storyboarding and the Filmmaking Process.
 Michael
- Wiese Productions. Beiman, Nancy. (2012) Prepare to board. Focal Press.
- Animation History and Production by AparnaVats, New Delhi Publisher, New Delhi.
- Fraioli, James O.(2000) Storyboarding 101: A Crash Course in Professional Storyboarding. Michae
- Wiese Productions. Glebas, Francis.(2008) Directing the Story. Routledge.
- Hart, John. (2007). The Art of the Storyboard: Storyboarding for Film, TV, and Animation. Focal
- Press. Simon, Mark.(2006) Storyboards: Motion In Art. Focal Press.
- Tumminello, Wendy. (2004) Exploring Storyboarding. Course Technology.

B23-GAG-104 Computer Applications

Time- 3Hours Credits – 02 Theory- 35 Internal Assessment- 15 Total Marks – 50

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1:Understand the basic knowledge of computer system.
- CLO 2: Know about the functioning of different parts of computer.
- CLO 3: Knowledge about Operating System.

- CLO 4:Understand the basics of Application Software.

UNIT	Topic		Contact Hours
UNIT- I	 Computer- Origin, Evolution and Generation of Computer Characteristics of Computer Types of Computers Block Diagram of Computer 	CLO 1	12
UNIT- II	 Basic Components of a Computer-: Input Devices Output Devices Storage organization: Primary & Secondary Memory 	CLO 2	12
UNIT-III	 Introduction to Software Types of Software - System software, Application software Operating system and its functions Introduction of MS Window and its various versions 	CLO 3	12
UNIT- IV	 Introduction to MS Word and its uses Various Menus, Toolbars & Buttons Paragraph and Page Formatting Creation & Working with Tables, Mail Merge Introduction to MS PowerPoint and its uses Creating a New Presentation 	CLO 4	12

- Help files from Apache Open Office, https://wiki.openoffice.org/wiki/Documentation
- Channelle Andy, "Beginning OpenOffice 3: From Novice to Professional", aPress Publications
- Beginning OpenOffice 3: From Novice to Professional, Andichannele, Apress.
- Microsoft Office 2016 Step by Step: MS Office 2016 Step by S_p1, By Joan Lambert, Curtis Frye
- Computer Fundamentals By Pradeep K. Sinha, Priti Sinha, BPB Publications, 6th Edition
- Getting Started with LibreOffice 5.0, Friends of OpenDocuments Inc., Http://friendsofopendocument.com
- Documentation from LibreOffice, https://documentation.libreoffice.org/en/english-documentation/

B23-GAG-105 Graphics Design-I

Time-3 Hours
Total Credits – 03
Theory - 35
Internal assessment (T) – 15
Practical-20
Internal assessment (P) – 5
Total Marks – 75

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: To understand about the graphic design and types
- CLO 2:Develop the ability to explore the Graphics Design
- CLO 3: Know about the levels of Colour

- CLO 4: Enhance the knowledge of Poster Design

UNIT	Topic		Contact
			Hours
UNIT- I	 Visual Communication: Concept and Features Graphic Design: concept and scope History and Development of Graphic Design Types of Graphics Info-Graphics: Concept and Features 	CLO 1	12
UNIT- II	 Drawing: Line Drawing, Contour Drawing Layout and Compositing: concept and elements Elements of Graphic Design Principles of Graphic Design 	CLO 2	12
UNIT-III	 Perception of Color and Color Wheel Mixing of Primary, Secondary and Tertiary Colors Tint, Shades, Hues, Tones. Warm Colors and Cool Colors. Different Color schemes (Complimentary, Split Complimentary, Analogous, Triadic etc. 	CLO 3	12
UNIT- IV	 Poster:Types and Elements Design Process Types of Typography Calligraphy 	CLO 4	12

- Line / Contour Drawing
- Still Life Drawing & Landscape drawing
- Light and Shade chart
- Layout and Compositing
- Color Mixing
- Color Wheel
- Calligraphy & Typography
- Mandala art
- Poster Designing

- Indian painting by Lokesh Chandra Sharma
- Indian cartoon Art by VeenaBansal
- Aesthetic of art, Krishna's publisher, Author Nupur Sharma
- Graphic design by Narender Singh Yadav

SEMESTER II

B23-GAG-201 Digital Design and Raster Graphics

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Develop knowledge of software to design raster graphical images
- CLO 2:Understand the difference between different graphics and image file formats
- CLO 3: Develop knowledge of using Photoshop's various tools and techniques.

- CLO 4: Understand Image Retouching and Image Manipulation for Advertising

UNIT	Topic		Contact
			Hours
UNIT- I	 Define graphics & types of graphics Elements and Principles of graphic design Difference between vector and raster images. Fonts: Serif, San-Serif, Slab-Serif and Decorative Overview of Designing Industry and Designing Trends Common Image Formats: JPEG, PNG, SVG, TIFF and GIF 	CLO 1	12
UNIT- II	 Introduction to Photoshop: Tools and Menus Layers & Layer styles, Opacity, Masking, Adjustment layers, Blending modes, Image Editing: Retouching, Color Correction, Smoothing skin & wrinkles. Image Manipulation, Filter Gallery Portrait enhancements Working with typography: Threading text, changing font size and Color, using styles, wrapping text, text on a path, creating Outlines, wrapping text around an object, sampling text. 	CLO 2	12

UNIT-III	 Pre-Production Gradient tool and Gradient Map Cloning / Stamping, Patch Tool Noise Reduce and edges sharpness Dodge & Burn Tool Page setup Action and Batch Render Effects: Orton Effect, Retro, Bokeh Filters: Liquify, Vanishing Point, Pattern Maker, Artistic Sound Recording: Process and Features Animatics: Structure, Advantages and Process 	CLO 3	12
UNIT- IV	 Production Photo Collage, Black & White images to Color, Web Banner Social Media: Features, Process and Sizes Magazine cover design: Process, Types and Sizes Digital Flyer Designs: Features and Cartoon character design Promotional designs Layout process: (create press and magazine layouts) Poster design: productive & social Newsletter design 	CLO 4	12

- Black & White to color conversion of image
- Portrait Enhancement & Photo Retouching
- Image Manipulation
- Day to night conversion of Image
- Effects passed exercise
- Typography Designs
- Social Media Designs
- Web Banners
- Magazine Cover page and layouts
- Newsletter Design
- Cartoon Character Designs

- Golombisky, K., & Hagen, R. (2017). White space is not your enemy: A beginner's guide to communicating visually through graphic, web & multimedia design. CRC Press.
- Harrington, R. (2012). Understanding Adobe Photoshop CS6: The essential techniques for imaging professionals. Peachpit Press.
- Gulbins, J. (2013). Mastering Photoshop layers: A photographer's guide. Rocky Nook.

B23-GAG-202 Experimental Animation Techniques

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Understand and apply Principals of Animation
- CLO 2: Learnvarious techniques and styles of Animation.
- CLO 3: Do ideation and imagination of animation.

- CLO 4: Recognize and identify the power of animation which is not restricted to any medium.

UNIT	Topic		Contact Hours
UNIT- I	 Introduction: Define Script, Key terms used in script (Layout of the story, Characters, Situation, Background) Terminology (scene, shot, Fade in and Fade out, Cut to, Scene number, EXT and INT etc.) 	CLO 1	12
	 Classical & Traditional Animation: Define Animation, Persistence of Vision, Animation & Motion Animation Principals Flip Book / Flick Book 		
UNIT- II	 Introduction to Storyboard Camera Shots and Compositions Different Layouts of Storyboard Parts of Storyboard Tools of Storyboard 	CLO 2	12
	 Stop Motion Animation Define Stop Motion Process of Stop Motion Key-Framing and Timing, Animation Different Techniques Basic Lighting Techniques & Camera Setup 		

UNIT-III	Timing & Spacing (On Flipbook and Lightbox) Pendulum Animation Vehicle Animation Walk Cycle (Adolescent & Adult) Jump and Run Leaf Animation Water Drop & Water Splash	CLO 3	12
UNIT- IV	 Developing a Short Experimental Animation Film Cut-Out Animation Mix Media Animation Add Sound and Audio Export and Authoring Stop Motion Animation in Animation & VFX Industry Student will choose a specific technique and implement his idea as a short film or gag. 	CLO 4	12

- Animate Time on flip book
- Develop a Story
- Understand Time and Spacing principal by Pendulum animation
- Squash and Stretch exercise with the use of ball animation
- Object Weight Impact on animation
- Leaf animation to understand staging rules
- Normal walk cycle of cartoon character
- Slow walk cycle of old age character
- Magazine Cover page and layouts
- Animate Humans /Objects with Stop Motion Animation Techniques
- Cut-out / Clay, used to produce story-based animation clip

- Golombisky, K., & Hagen, R. (2017). White space is not your enemy: A beginner's guide to communicating visually through graphic, web & multimedia design. CRC Press.
- Harrington, R. (2012). Understanding Adobe Photoshop CS6: The essential techniques for imaging professionals. Peachpit Press.
- Gulbins, J. (2013). Mastering Photoshop layers: A photographer's guide. Rocky Nook.

B23-GAG-203 Comic Character and Character Anatomy

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Get knowledge about different types of characters design
- CLO 2:Get knowledge of comic history
- CLO 3: Understand the anatomy of organic and non-organic characters.

- CLO 4: Understand the different comic styles along with presentation styles.

UNIT	Торіс		Contact Hours
UNIT- I	 Introduction: Character Designing: History, Types and Process Caricature: Features and Types Concept of Model Sheet / Expression Sheet Comic Book: History and Development 	CLO 1	12
UNIT- II	 Shape Language and Design Cartoon Character Anatomy & Proportions Body Types and Poses, (Fingers, Hands, Arms, Foot and Legs) Eyes, Nose, Lips and Hairs: Structure and types (Realistic and Cartoonish) (Male & Female) Facial Expression: Anger, Disgust, Fear, Happiness, Sadness and Surprise Development of Character Design; Design Character with Shapes and Forms 	CLO 2	12
UNIT-III	Comic Design	CLO 3	12
UNIT- IV	 Production Hand Drawing and Coloring Techniques Splash, Explosion, Cracking, Fire Concept Character: Features and Scope Techniques and use Perspective Angles 	CLO 4	12

- Human & Cartoon Character Anatomy
- Design Pattern and Layout
- Reviews of any Comic Book
- Model Sheet & Expression Sheet
- Composition in Comic
- Cartoon character sketch and Conversation
- Comic Book Strip
- Action Sheet of Cartoon Character
- Perspective Angles
- Study of Comic Characters and make Slam Book
- Final Output (Comic Book)

- Blair, P. (1994). Cartoon animation. Walter Foster Publishing.
- Indian painting by Lokesh Chandra sharma
- Indian cartoon Art by VeenaBansal
- Aesthetic of art, Krishna's publisher, Author Nupur Sharma sGraphicdesign by Narender Singh Yadav

B23-GAG-204 Science of Communication

Time- 3Hours Credits – 02 Theory- 35 Internal Assessment - 15 Total Marks – 50

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

After completing the Course, the student will be able to:

- CLO1: Understand the basic concepts, functions and barriers of communication.
- CLO 2:Know about the principles and forms of communication.
- CLO3: Learn about the various levels of communication and Indian concept of communication
- CLO4: Understand the different models of communication

UNIT	Topic		Contact
			Hours
UNIT-	• Definition, concept, process and elements of communication	CLO 1	12
I	Need and scope of communication in society		
	Functions of communication		
	Barriers in communication		
UNIT-	Principles of communication	CLO 2	12
II	Socialization and communication		
	Verbal communication		
	Non-verbal communication		
	Traditional forms of Communication		
UNIT-	Levels of communication and interaction :intra-personal,	CLO 3	12
III	interpersonal, Group, public and mass communication.		
	 Indian concept of communication 		
UNIT-	Models of Communication	CLO 4	12
IV	Aristotle		
	• SMR		
	• SMCR		
	Berlo		
	Shannon ad Weaver		
	 Osgood 		
	• Schramm		

- Dennis, Mcquail, Mass Communication Theory, Sage Publication, New Delhi.
- Schramm, W. &Roberts, D.F., The Process and Effects of Mass Communication, Urbana, IL: University of Illinois Press.
- Rayudu. C.S., Communication, Himalaya Publishing House, Mumbai
- Joshi, P.C., Communication & Nation—Building Perspective and Policy, Publication Division, New Delhi.
- Malhan P.N., Communication Media, Yesterday, Today and Tomorrow, Publication Division, New Delhi.
- Agee, Warren K., Ault Philip H., Introduction to Mass Communication, Oxford &IBH Publishing Company, New Delhi

B23-GAG-205 Graphics Design-II

Time-3 Hours
Total Credits – 03
Theory - 35
Internal assessment (T) – 15
Practical-20
Internal assessment (P) – 5
Total Marks – 75

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Get knowledge about design application software
- CLO 2:Get knowledge of design enhancement
- CLO 3: Understand the concept of formatting
- CLO 4:To know about the different communication design

UNIT	Topic		Contact
			Hours
UNIT- I	Introduction to Adobe Photoshop	CLO 1	12
	 Page Setup and margins 		
	 Layer: Concept and Types 		
	 Layer panel: Components 		
	 Selection Tools: Types and uses 		
UNIT- II	Alignment and Distribution	CLO 2	12
	Ruler and Guidelines		
	 Editing Tools: cropping and sizing 		
	 Image Enhancement Levels, Curve and HSB 		
UNIT-III	Background & foreground Colour	CLO 3	12
	Gradient: Types and Uses		
	Colour Modes and Swatches		
	Effects and Filters		
	Text and Paragraph Tools		
UNIT- IV	Digital and communication design	CLO 4	12
	Digital Flyer: Sizes and Process		
	Google Banners: Types		
	 Logo: Concept and Types 		
	Communication Designs		

- Image Enhancement
- Photo Manipulation
- Digital Flyer
- Google Banners
- Typography Design
- Logo

- Golombisky, K., & Hagen, R. (2017). White space is not your enemy: A beginner's guide to communicating visually through graphic, web & multimedia design. CRC Press.
- Harrington, R. (2012). Understanding Adobe Photoshop CS6: The essential techniques for imaging professionals. Peachpit Press.
- Gulbins, J. (2013). Mastering Photoshop layers: A photographer's guide. Rocky Nook.

SEMESTER III

B23-GAG-301 2D Animation

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO1: Explore the Classical and Traditional Animation Terms and Techniques
- CLO 2: Defining and Types of 2D Animation
- CLO 3: Understanding the Principals of Animation.
- CLO 4: Gain skills in the Character Design and Character Animation.

UNIT	Topic		Contact
			Hours
UNIT- I	Traditional Animation techniques	CLO 1	12
	 Traditional Animation History, Types and Process: Classical, Traditional, Cutout, Puppet, Stop Motions 12 Principles of Animation Straight Ahead Action and Pose to Pose Techniques X-Sheet Timing and Spacing Chart: Slow and Fast Action, General principles of timing, Usage of Acting into animation: Character acting, Mass and weight, Volume, Line of action, Path of action 		
UNIT- II	 Classical Animation techniques Head Rotation: Human, Animal and Bird Facial expressions: Lip movement, Eyebrows and Change of expression Follow through and overlapping action: Hair and Cloth animation Style of Animation-Parallax, Multilane and Morph Animation Typographical Animation: Tittle Animation & Logo Animation Loop Animation 	CLO 2	12

UNIT-III	Interface of Animate	CLO 3	12
	 Drawing Tools, Color Timeline, Keyframes, Framerate Importing vectors, bitmap, video Tracing and illustrations Understanding graphics and symbols Onion skins, Nesting Animation Publishing for Flash, HTML5 etc. 		
UNIT- IV	Advance Traditional Animation Techniques in Animate	CLO 4	12
	 Understanding Tweens: Motion Tween, Classical Tween, Shape Tween Easing, Editing Property Curves Creating and Using Masks Bones and Workflows, Inverse Kinematics, Disabling and Constraining Joints Bouncing Ball Animation Theory Walk Cycle Study Run Cycle Study Character Jump Study 		

- Human & Cartoon Character Anatomy
- Develop Character
- Model Sheet & Expression Sheet
- Bouncing Ball: Heavy and Light weigh
- Cartoon character sketch and Conversation
- Walk Cycle: Adult, Old Age and Heroic Walk
- Acting with Animation
- Feather falling
- Character jumping over a gap
- 360deg Character Head Turn
- Logo Animation

- Richard Williams Expanded Edition; The Animator's Survival Kit
- Preston Blair; Cartoon Animation
- The ILLUSION OF LIFE: DISNEY ANIMATION, Ollie Johnston, Frank Thomas
- Richard Williams Expanded Edition; The Animator's Survival Kit
- Preston Blair; Cartoon Animation
- Harold Whitaker and John Halas, Timing for Animation, Focal Press; 2 editions (2September 2009)
- John Culhane, Disney's Aladdin The Making of an Animated Film Hyperion, Disney Editions; Reprint edition (2 September 1993)

B23-GAG-302 Print Design and Vector Graphics

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Understand Vector Graphic tools
- CLO 2: Able to Create Communication Material
- CLO 3: To Know About Design Process.

- CLO 4: Gain Knowledge of Different Printing Technologies.

UNIT	Topic		Contact
			Hours
UNIT- I	IntroductionDesign: Function and Process	CO 1	12
	 User Interface: Title Bar, Menu Bar, Color Palette, and Toolbox 		
	 Page Counter Bar: Add Page, Remove page and Master pages 		
	 Create and Edit Geometric and organic Shapes: Bezier, linear, angular, smooth and close path. View Modes: Normal, Wireframe, Draft, Enhanced and Pixels 		
	 Selection and Distributing: Skewing, Blending, Curve Lines, Straight Lines, Rotating an Object, Group and Ungroup, Break Apart and Coloring. Shape tools - Weld, Trim, Intersect, Simplify, and Front minus Back, Back minus Front. 		
UNIT- II	Create and Edit	CO 2	12
	 Font and Different Types of Font Family's: Application and Characteristics Text Tool: Entering Artistic Text, Entering Paragraph Text, Converting Text Formatting Text, Font Size Characteristics Image Tool: Import, Trace and Edit then Export Color: Color Scheme, Color Theory, Gradient tool. Effects - Lens, Power Clip, Perspective, Rollover, 		

	 Convert to Bitmap Page Setup: Size Setup and Edit Business Card: Size, Elements and Functions Poster: Size, Element, Characteristics and Functions Logo: Types, Process and Characteristics Editing Tools: Attach, Detach Bevel, Chamfer, Extrude, Bridge, Insert Vertex, Weld, Target Weld, Connect. 		
UNIT-III	 Adobe InDesign: Interface, Menu and Toolbar Master page: Function and Characteristics Managing and Transforming Objects Text Formatting: Heading and Body Text Column and Layout: Functions Graphics, Styles sheet and Pre-flight, printing and PDF's 	CO 3	12
UNIT- IV	 Printing Technology Printing: Definition and Scope Various Types of Printing Process: Letter Press, Offset, Flexography, Gravure, Screen Digital and Thermography Printing Application and Functions of Different Printing Techniques 	CO 4	12

- Business Card: For Company and Individual
- Poster : Commercial ,Typography Poster
- Logo Designfor Commercial and Government Organizations
- Label Design
- Package Design
- Hoarding/banner
- Two pagers
- Book cover
- Newsletter Design
- Magazine Cover
- Printing Process

- Corel Draw Training Guide, Author: Satish Jain, M. GeethaBasics 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
- The Complete Graphic Design By Ryan Hembree, ROCKPORT PUBLISHER
- Adobe InDesign CC Classroom in a Book by Kelly Kordes Anton, Tina DeJarld

B23-GAG-303 3D Modeling and Texturing

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Know about 3D Modeling concept
- CLO 2: Know about the different techniques of 3D Modeling
- CLO 3: Understand Texture & Shading.

- CLO 4: Develop knowledge of UVW Unwrapping.

UNIT	Topic		Contact
			Hours
UNIT- I	Introduction Introduction to 3Dimensions and 2 Dimensions 3DS May Interfaces Workshope Teelber Many and	CLO 1	12
	 3DS Max Interface: Workspace, Toolbar, Menu and Command Panel 3D Production Process Project and Reference Setup in 3Ds Max 		
UNIT- II	 Polygon Modelling 3D Modeling: Primitives Objects and Compound Polygon Modeling Technique: Shift Drag and Extrude Polygon Modeling: Creating and Editing 3d models Elements of polygon modeling: Vertex, Edges, Boarder, Polygon and Element Modifiers: Twist, Bend, Path Deform, Smooth, Mesh Smooth and Turbo Smooth, Boolean, Symmetry, Copy & Clone Editing Tools: Attach, Detach Bevel, Chamfer, Extrude, Bridge, Insert Vertex, Weld, Target Weld, Connect. 	CLO 2	12
UNIT-III	 Surface Modeling Spline Modeling: Creating and Editing 3d models Tools of polygon modeling: Vertex, line and Spline Patch Modeling: Creating and Editing 3d models Tools of polygon modeling: CV and EP Curves 	CLO 3	12

UNIT- IV	Texturing	CLO 4	12
	Material Editor		
	Different Materialand Shader		
	Texturing and Mapping		
	 UVW Maps and Unwrapping 		
	Creating Texture in Adobe Photoshop		
	 Different Types of Rendering 		
	Timeline and Camera Animation		

- Interface, Tools and Panels
- Primitive Modeling
- Modeling Objects Through Different Modeling Techniques
- Introduce Modeling Modifiers
- Low Poly Furniture / Architectural / Mechanical Modeling
- High Poly Furniture / Architectural ModelingTwo pagers
- 3D Scene / Interior Modeling
- Games Assets Modeling
- Object Coloring and Texturing
- Texturing Through Unwrapping
- Create Texture in Adobe Photoshop
- Different 3D Maps
- Virtual Camera Setup
- Timeline and Output

- Mastering Autodesk 3ds Max by Jeffrey M. Harper
- 3Ds Max bible by Kelly L. Murdock
- 3ds Max Modeling for Games Volume II by Andrew Gahan
- Architectural rendering with 3ds Max and V-Ray Photorealistic Visualization by Markus Kuhlo, Enrico Eggert (z-lib.org)

B23-GAG-304 WEB DESIGNING

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1 Become familiar with web design and learn how to implement web theories into practice.
- CLO 2: Learn the Software of the web designing using Dreamweaver and CSS.
- CLO 3: Use knowledge of HTML tags and CSS code to create personal and business websites following current professional and/or industry standards.

- CLO 4: Use critical thinking skills to design and create websites.

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UNIT	Topic		Contact
			Hours
UNIT- I	 Introduction The Basic Dreamweaver Environment Creating a site profile, the importance of a site profile Organizing the files & folders, folder and file naming rules Creating folders and webpage files 	CLO 1	12
UNIT- II	 Opening a file for editing, titling pages, creating divisions Adding headings, Paragraph vs. line breaks, tags: logical vs. physical, lists, linking to other websites, linking to the user files, inserting images on web pages, changing images into links, adding an Email link. 	CLO 2	12
UNIT-III	 CSS design, its types Working of style sheet: font, margins, link colors, stylish headlines, paragraphs, Types of images, organizing images, Inserting and formatting tables. 	CLO 3	12

UNIT- IV	 Form elements, Head elements, Page templates Form objects, accessible forms Flash elements, Multimedia contents, browser compatibility testing Uploading the website on web, uploading changes, maintaining website 	CLO 4	12	
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- Introduction to Dreamweaver workspace.
- Page setting in Dreamweaver.
- Create a dynamic web page which defines all text formatting tags of HTML.
- Create a Time table using Dreamweaver.
- Use flash elements on webpage.
- Create webpage to include image and various options related to image.
- Create link on webpage using CSS.
- Create a layout of webpage.
- Create employee registration form using HTML tag.
- Apply style sheet in Web page (inline, embedded and link)

- Macromedia Dreamweaver 8 for Windows and Macintosh: Visual QuickStart Guide by Dori Smith; Peachpit Press. Copyright.
- Macromedia Dreamweaver 8 Unleashed by Zak Ruvalcaba; Sams Publishing. Copyright
- Macromedia Dreamweaver MX: Training from the Source, Volume 1 by Khristine Annwn Page; Macromedia Press. Copyright.
- Macromedia Dreamweaver MX Killer Tips by Joseph Lowery, Angela C. Buragli; New Riders. Copyright.
- Macromedia Dreamweaver 8: Training from the Source by Khristine Annwn Page; Prentice Hall Professional. Copyright.

B23-GAG-305 Experimental Animation

Time-3 Hours
Total Credits – 03
Theory - 35
Internal assessment (T) – 15
Practical-20
Internal assessment (P) – 5
Total Marks – 75

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1: Understand and apply Principals of Animation
- CLO 2: Learn various techniques and styles of Animation.
- CLO 3: Do ideation and imagination of animation
- CLO 4: Recognize and identify the power of animation which is not restricted to any medium

UNIT	Topic		Contact Hours
UNIT- I	Classical & Traditional Animation: Define Animation Types of Animation Persistence of Vision, Animation & Motion Animation Principals Flip Book / Flick Book	CLO 1	12
UNIT- II	 Introduction to Storyboard Camera Shots and Compositions Different Layouts of Storyboard Parts of Storyboard Tools of Storyboard 	CLO 2	12
UNIT-III	 Stop Motion Animation Define Stop Motion Process of Stop Motion Key-Framing and Timing, Animation Different Techniques Basic Lighting Techniques & Camera Setup 	CLO 3	12
UNIT- IV	Developing a Short Experimental Animation Film	CLO 4	12

Add Sound and Audio
Export and Authoring
Stop Motion Animation in Animation & VFX
Industry
Student will choose a specific technique and
implement his idea as a short film or gag.

- Develop a Story
- Motion and Animation
- Understand Time and Spacing principal by Pendulum animation
- Squash and Stretch exercise with the use of ball animation
- Object Weight Impact on animation
- Animate Humans /Objects with Stop Motion Animation Techniques
- Cut-out / Clay, used to produce story-based animation clip

- Williams, R. (2012). The animator's survival kit: A manual of methods, principles and formulas for classical, computer, games, stop motion and internet animators.
 Macmillan.
- Animation History and Production by Aparna vats, publisher New Delhi.
- Thomas, F., & Johnston, O. (1995). The illusion of life: Disney animation. Hyperion.
- Laura Moreno (2014) THE CREATION PROCESS OF 2D ANIMATED MOVIES
- Wells, P. Understanding animation. Routledge.
- Blair, P. (1994). Cartoon animation. Walter Foster Publishing.
- Gasek, T. (2017). Frame-by-frame stop motion: The guide to non-puppet photographic animation techniques (2nd ed.). CRC Press.
- Priebe, K. A. (2011). The advanced art of stop-motion animation. Cengage Learning.

SEMESTER IV

B23-GAG-401Compositing and Visual Effects

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1Understand the Concept of Composition and Visual Effects
- CLO 2: To Know different Techniques of Post Production
- CLO 3: Gain Knowledge about Post Production Tools.
- CLO 4: Learn about functions of keys as tool.

UNIT	Topic		Contact
			Hours
UNIT- I	 Introduction Introduction to after effects Adobe After Effect Interface: Workspace, Toolbar and Menu Project Setup: Elements of Project Panel Create and Edit Composition Slide Show of Multiple Images 	CLO 1	12
UNIT- II	 Compositing Timeline: Elements and Parts of Timeline Layer Parenting (Parent and Child Relationship) Animation: Key, and Types of Keys Graph Editor: Curve Tools 2D Composition, Pre-Comp and 3D Composition Motion Graphics: Typography, lines, Shapes and Images 	CLO 2	12
UNIT-III	Techniques	CLO 3	12

	 Roto-Scoping: Roto Brush and Organic and Geometrical Mask Stamp Tool: Wire Removal and Object Removal Rig or wire removal with clone stamp tool 		
UNIT- IV	 Effects & Rendering Wiggle, Stroke, Beam, CC Sphere and Blur Particles: Create, Edit and Animation Keying: Chroma Key, Colour Range Colour Correction and Colour Balance Camera: Create, Edit and Animate Rendering Setup: Sequence and Video with Audio 	CLO 4	12

- Interface, Tools and Panels
- Project Setup, Key Animation
- 2D Composition: Slide Show of Images
- Typography Animation
- Motion Poster
- Opening Titling / Logo Animation
- Produce a video based on Character Cloning
- Motion Graphics Advertisement
- Roto-scoping: Copy Character from Video and Compose it in New Video
- Tracking: Track Organic and Non- Organic Objects
- News Channel Interface Animation

- Adobe Creative Cloud AFTER EFFECT CC 2015, Classroom in a book, The official training workbook from adobe, By Brie Gyncild& Lisa Fridsma
- Secrets of Hollywood Special Effects by Robert E. McCarthy, Focal Press
- Creating Motion Graphics with After Effect, third edition: Volume-2: Advanced Techniques by Trish & Chris Meyer, CMP BOOKS
- Creative After Effects 7Workflow Techniques for Animation, Visual Effects and Motion Graphics ByAngie Taylor, Focal Press is an imprint of Elsevier
- The VES Handbook of Visual Effects, Industry standard VFX Practices and Procedures Edited By: Jeffery A. Okun and Susan Zwerman, Focal Press is an imprint of Elsevier
- HOW TO READ A FILM The World of Movies, Media, and Multimedia, Language, History, TheoryThird Edition, Completely Revised and Expanded by Jame s Monaco, New York Oxford OXFORD UNIVERSITY PRESS

B23-GAG-402 User Interface Design (UI)

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1 Understand the Function and Application of Digital Advertising
- CLO 2: Learn the Techniques to Create Digital Graphics
- CLO 3: To Know the Process of User Interface Designing.

- CLO 4: Understand the Elements of Digital Design.

UNIT	Topic		Contact
			Hours
UNIT- I	 Digital Advertising Meaning and Definition of digital advertising Social media optimization Sizes and resolution for social media Types and Elements Production process of Digital Advertising and Graphics Function and Characteristics of Digital Advertising 	CLO 1	12
UNIT- II	 Tools and Techniques Interface: Workspace, Tools, Rulers, Grids, Guides, and Crop Marks and other panels Concept of Art board and Layer, Page Property Create and Edit Shapes, Shape Builder Tool Align and Distribution, Grouping, Blending Modes, Clipping masks Image: Import, Placement, Tracing and Edit Color & Painting: Colors Selection, Color Swatches, Color Guide, Brushes and Strokes, Gradient panel and Gradient tool 	CLO 2	12

UNIT-III	Effects & Output	CLO 3	12
	 Masking: Function and Characteristics Drop shadows, Glow, 3D Effect and Distortion and Transformation Path finder, Rasterize, Stylize and Wrap Export: Export for Web and Print, Export Selection Function and application of Different File Formats: .PDF, PNG JPEG, SVG, TIFF 		
UNIT- IV	 Adobe Experience Design (XD) Overview of User Experience Design (UX) vs. User Interface Design (UI) Understanding common file formats and Working with the Design and Prototype views Principals and Process of User Interface Design Create Prototypes: low fidelity and high fidelity Create and Combine Shapes, Add Images Buttons: Types and Functions Information Hierarchy, Color: Solid, Gradient and Transparent Text: Choose and Treatment Drop Shadow, Background Blur, Stroke size and Color Navigating around the user interface UI Kits: Android and IOS 	CLO 4	12

- Interface of Adobe Illustrator
- Web banners / Social Media Post Design
- Google ad Banners
- Classified Advertisements
- Newspaper Advertisement
- Social Media Cover Design
- E-Mailers Design
- Interface of Adobe XD
- Button and Card Design
- User Interface design
- Prototype Design for Android and IOS

- The Essential Guide to User Interface Design an Introduction to GUI Design Principles and Techniques, Third Edition by Wilbert O. Galitz, Wiley Publishing, Inc.
- The Elements of Graphic Design, Second Edition by Alexw. White, Published by Allworth Press
- A Designer's Research Manual, Second Edition by Jenn + Ken Visocky O'Grady
- Adobe Illustrator CC, Classroom in a Book, The official training workbook from Adobe by Brian Wood, ADOBE PRESS
- UI Design with Adobe Illustrator by Rick Moore, ADOBE PRESS
- Adobe XD in CC, Classroom in a Book, The official training workbook from Adobe By Brian Wood, ADOBE PRESS
- UX AND UI DESIGN STRATEGY A STEP-BY-STEP GUIDE ON UX AND UI DESIGN By PAMALA B. DEACON, Printed in the United States of America 2020 by Pamala B. Deacon

B23-GAG-403 3DOrganic Modeling and Texturing

Time-3 Hours
Total Credits – 04
Theory - 50
Internal assessment (T) – 20
Practical-20
Internal assessment (P) – 10
Total Marks – 100

Note- The question paper will contain nine questions. Students are required to attempt five questions in all. There will be two questions in each Unit from Unit-I to Unit-IV. Students are required to attempt one question from each unit from I to IV. Q. No. 1 containing short notes covering the entire syllabus is compulsory. All the questions will carry equal marks. The students can attempt question paper either in English or in Hindi language.

COURSE LEARNING OBJECTIVES:

- CLO 1 Understand the basic 3D animation MAYA software
- CLO 2: Know about the different types of Modeling
- CLO 3: Production Stages how to build the character.

- CLO 4: Understand the basics types of texturing.

UNIT	Topic		Contact
			Hours
UNIT- I	 Introduction 3D Animation: Features and Application Production Pipeline of 3d Animation Overview of 3D Animation Industry and Artist Profiles in Industry Interface of Autodesk 3Ds Maya: Workspace, Tools, Menu and other Panels Create and Edit: Standard Primitive & Extended Primitives Objects, Pivoting and Aligning etc. 	CLO 1	12
UNIT- II	Quadruped Modeling	CLO 2	12
UNIT-III	 Biped Modeling Human Body Parts with Low poly and High poly Modeling and anatomy Upper Body Modeling 	CLO 3	12

	 Lower Body Modeling Face and Head Models Cloth and Hair Modeling 		
UNIT- IV	 Texturing Hyper shade: Features and Application Material and Shader: Types, Features and Application Texturing Maps (Opacity, Bump, Reflection) Process of UVW Unwrapping (Flatter, Cylindrical, Spherical) Create 2d Texture in Adobe Photoshop 	CLO 4	12

- Interface, Tools and Panels
- Object Modeling and Texturing
- Environment and Scenes Modeling
- Environment and Scenes Texturing
- Human Body Parts Modeling and Texturing
- Lower Body Modeling of Character
- Upper Body Modeling of Character
- Face and Head Modeling
- Cloth and Hair Modeling
- Skin Texturing
- Concept Character Modeling

- Autodesk Maya 2019 Workbook Author: Sham Tickoo
- Advanced Maya Texturing and Lighting Paperback Illustrated, 29 May 2015 by <u>Lee Lanier</u>.
- Mastering Autodesk Maya 2016: Autodesk Official Press BY Palamar T.