





PROGRAMME GUIDE 2024-25



PROGRAMME GUIDE

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- **Detailed Syllabus**
- **Counseling and Study Structure**
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Supported By











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DIPLOMA IN ANIMATION & VISUAL EFFECTS (FS23DAVE)

Diploma in Animation & Visual Effects (FS23DAVE)

डिप्लोमाइन एनिमेशन एण्ड विजुअलइफेक्ट्स(FS23DAVE)

 (A) Duration : 12 Months (D) Courses : 12

 (अ) अवधि : 12 माह (द) कोर्सेस : 12

 (B) Elizibility : 12 Months (D) Courses : 12

 (B)
 Eligibility
 :
 12th Pass
 (E)
 Credit
 :
 40

 (ब)
 पात्रता
 :
 12वीं पास
 (इ)
 क्रेडिट
 :
 40

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Cre	Total Marks	Theory		Practical Marks		Assignment		
Code		dit		Max	Mi n	Ma x	Min	Max	Min	Key Learning Outcomes
				Seme	ester	I				
	History of Animation		100		20	20		30		Understanding the basic concept of Animation and its history
FS23DAVE10 1	History of Animation, Principles of Design and Typography Photography	4		50			8		12	• Knowledge of Principles of Design and Typography
										Basic Concept of photography and its application in animation
FS23DAVE10	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding	4	100	50	20	20	8	30	12	 Knowledge of drawing and its fundamentals and its application Understanding of perspective of still life and color theory, use of primary colors Understanding of Anatomy of hymner hadre and making of
										human body and making of human body in animation form • Concept of storyboarding and its

										use in animation
FS23DAVE10 3	Introduction to Computer Graphics, Digital Animation by Adobe Animate and Video Editing by Premiere, Audio Editing by Adobe Audition (Digital Video Editor2020/ME/NFDC03966)	4	100	50	20	20	8	30	12	 Understanding of user Interface of Adobe Photoshop, Basics (setting, color, resizing, canvas, brush), Selection tools (diff selection techniques, quick mask, color range, background eraser), Basics of Layer management, Photo enhancement and corrections. Knowledge of retouching photos and images, text effect in Photoshop, Filters and effects. Knowledge of digital animation with the use of flash animation by premiere Understanding of audio editing in animation with the use of sound forge
FS23DAVE10 4	Communication Skills & Personality Development	2	100	70	28	-	-	30	12	Basic communication skillsPersonality grooming

FS23DAVE10 5	Modeling, Texturing and Lighting	4	100	50	20	20	8	30	12	 Understanding of Modeling of different objects, character animation and Maya Interface Knowledge of Texture an old looking wooden house with broken window Introduction to nature Lights & its properties, Maya Basic Lights, working with Maya Lights 1-Point, Direct, Spot, Ambient, Area, Volume, Making & Breaking Lights link
FS23DAVE10 6	Safety Practices in the Work Environment	2	100	50	20	20	8	30	12	• Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
				Gran	d Tota	al				
FS23DAVE10 7	Rigging and 3D Character Animation	4	100	50	20	20	8	30	12	 Introduction to Rigging, working with Connections, Joints and IK Handles, creating an Arm Setup, Understanding of Skin Binding and Painting Weights, Facial Rigging Knowledge of Graph Editor & Dope Sheet, Bouncing ball with spacing, Understanding of Final correction with graph editor & Dope Sheet, concept of Self-expressions with different body parts, Use of camera angles & lights

FS23DAVE10 8	Dynamics and Maya TechAnimation	4	100	50	20	20	8	30	12	 Introduction to particle Menus & its attributes, to Fluid Effect, Introduction to Rigid Body and Constraints, Understanding of Hair attributes, Hair Dynamics and Rendering, Creating hair on a character, nCloth, Flag simulation with ncloth, nparticle&Cereal Bowl
FS23DAVE10 9	After Effects, Fusion and Nuke,Real Flow / Maya Bifrost(Roto Artist 2019/ME/MESC/3449)	4	100	50	20	20	8	30	12	 Understanding of Broadcasting its Formats., vfx movies, Compositing, Making of a compositing in Photoshop Understanding of Animation principals how to create Parallax effects in 2D animation through transform properties, Interpolation Understudying of Different masking tools; Animate a layer using mask path, 2D text effects; Fire fx, Knowledge of Paint tools and basic wire removal. Understanding of Workflow of Real flow creating mesh and Interaction with 3D Geo, Use of Ultra motion water splash with Rigid body, Introduction to Breaking Objects and optimizing Simulation

FS23DAVE11 0	Motion Builder &3D Equalizer	3	100	50	20	20	8	30	12	 Introduction and Overview, Exploring Motion Builder's navigation controls, Understanding of Auxiliary Pivots, Motion capture data to a Character, Motion capture data to a Character, Rigid body dynamics, Creating a custom camera, Rendering out movies for previews Understanding of Maya Live Interface, Maya Live - 2D v/s 3D Tracking, Knowledge of basics of auto tracking and solving, Manual tracking Introduction to Tracking using Geometry, Object Tracking,
FS23DAVE11	Introduction to Entrepreneurship	2	100	50	20	20	8	30	12	• Understanding of entrepreneurship development concepts
FS23DAVE11 2	Show Reel Development Project	3	100	50	20	20	8	30	12	 Understanding the whole concept of animation and visual effects and developing a sample show reel Knowledge of whole VFX pipeline

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
1200	480

Details Syllabus

Semester - I

FS23DAVE101: History of Animation, Principles of Design and Typography, Photography

	Understanding the basic concept of Animation and its history
	Knowledge of Principles of Design and Typography
	Basic Concept of photography and its application in animation
	Understanding the meaning of Visual design. Learning to draw frames.
	Introduction to frame composition; Understanding the meaning of different compositions.
	Printers, print media, fonts and their uses.
	Uses of different types of lenses, Filters and Accessories
	Compositions for photography (light, size, angles)
FS	23DAVE102: Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding
	Knowledge of drawing and its fundamentals and its application
	Understanding of perspective of still life and color theory, use of primary colors
	Understanding of Anatomy of human body and making of human body in animation form
	Drawing cartoons with basic forms.
	Cartoon drawing.
	Learning human body proportions.
	Weight and balance of the figure.
	Drawing Stick figures & Drawing Stick figures in poses.
	Gesture drawings.
	Human Skeleton & Human skeleton in orthographic views.
	1pt perspective concept, Definition; Drawing objects in 1pt persp.
	2pt perspective concept, Definition; Drawing objects in 2pt persp.
	3pt perspective concept, Definition; Drawing objects in 3pt persp.
	Composing the objects for Drawing.
	Understand the light behaviors with different materials.
	Pencil rendering, hatching and cross hatching.
	Creating light and shade.
	Monochromatic still life.
	Understanding Primary, Secondary and Tertiary colors.
	Creating color wheel of Primary, Secondary and Tertiary colors.
	Understanding the color tones and tints.

Creating Color scale.
Drawing human figure in Box form & in cylinder form
Human muscle of Head, neck upper body and lower body
Concept of storyboarding and its use in animation
Story and storyboard design
Camera angles for framing
3DAVE103: Introduction to Computer Graphics, Digital Animation Adobe Animate and Video Editing by Premiere, Audio Editing by Adobe Audition (Digital Video Editor 2020/ME/NFDC03966)
Introduction to Digital art and platform.
User Interface of Adobe Photoshop.
Basics (setting, color, resizing, canvas, brush)
Selection tools (different selection techniques, quick mask, color range, background eraser)
Layer management.
Photo enhancement and corrections.
Retouching photos and images
Text effect in Photoshop.
Filters and effects.
Understanding the concept of Matte paint
Matte painting
Coloring the character.
Coloring BG in Photoshop.
Coloring BG in Photoshop. (without any BG drawing)
Knowledge of digital animation with the use of adobe animate
User Interface
Drawing Shapes
Layers and the Timeline
External Images and the Library Panel
Working with Text and Fonts
Graphic Symbols
Graphic Symbols
Frame by Frame Animations
Frame by Frame Animations
Frame by Frame Animations
Shape Tweens
Shape Tweens
Inverse kinematic Bone Tool

	Button Symbols
	Movie Clips
	Filters and Blend Modes
	Usage of editing in animation by adobe premiere
	Concept of Non Linear Editing
	Basic Editing
	Transitions & Integrating Audio
	Advanced Editing
	Titling & Superimposing
	Motion & Filters
	Understanding of audio editing in animation with the use of adobe audition
	Importing and recording in adobe audition
	Editing audio
	Cleaning and restoring audio
	FS23DAVE104: Communication and Personality Development
Comn	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right
	Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles
	The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter
Perso	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self-confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self-acceptance and self-growth

FS23DAVE105: Modeling, Texturing and Lighting

Introduction to Maya interface
Difference between EP & CV
Curve Editing Tools
Types of surface (loft, Revolve etc)
Chessboard using Surface
Modeling a Slipper
Landscape / Mobile phone
Introduction to Basic Primitives
Stair case
Polygon Spaceship
Room Interior
Hand Blocking
Hand Modeling
Face Blocking
Torso Blocking
Leg Modeling
Sofa model
Landscape model
Complete Human Character
Alien Character
Basic overview of hypershades
Working with Maya Surface Nodes-Blinn, Phong& Lambert
Bump & Displacement Maps
Working with Transparency, Reflection & Refraction
Creating or making a wine bottle with glass
Labeling to a bottle with layered shader
Overview of 2D & 3D Texture
Texture a Jacket using layered texturing
Introduction to UV Mapping
UV texture editor
Overview to Planner Mapping & its use
Match or Cigarette box texturing
Character Face UV Unwrap
3D Character UV Unwrap
Character Texture in Photoshop
Overview to 3d Paint
Introduction to Visor tool

Creating 3D environment with Visor
Texture an old looking wooden house with broken window
Introduction to nature Lights & its properties
Maya Basic Lights
Working with Maya Lights 1-Point, Direct, Spot
Working with Maya Lights 2-Ambient, Area, Volume
Understanding Making & Breaking Lights link
Introduction to Key, Fill & Rim Light
Three-point Lighting to a Character
Lighting 3d object with real footage
Lighting to an Interior
Environment lighting
Camera attributes & its angles
Render types & its parameters
Render Passes
Introduction to Mental Ray
Working with Final Gather and GI
Interior light in day time
FS23DAVE106: Safety Practices in the Work Environment
Safety Signs &Colour at work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs &Colour- Sign categories, Sign types.
First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first-aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.
Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.
Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguishers water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.
Safe working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.
Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipment's, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene? Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention. Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage-safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases. Semester - II FS23DAVE107: Rigging, 3D Character Animation ☐ Introduction to Rigging Working with Connections – 1: Connection Editor & SDK (Tripod) Working with Connections – 2: Constraints and Utility Nodes □ Deformers - Lattice, Wrap, Cluster Deformers - Sculpt, Jiggle, Wire, Blend Shapes ☐ Introduction to Joints and IK Handles Creating an Arm Set-up ☐ Arm Set-up: FK/IK Blend and Stretchy ☐ Creating a Leg Set-up Creating a Biped Rig 1: Setting up the Skeleton Creating a Biped Rig 2: Finishing the Rig with Controls Skin Binding and Painting Weights **Facial Rigging** ☐ Introduction to Muscle System Working with Muscle Rig ☐ Rigged Character for Pose Introduction to Animation (Timeline, Slider, Key Frames) Explain the concept of Graph Editor & Dope Sheet □ IK \ FK-ANIMATION ☐ Introduction to Animation Principles Follow Through \ Secondary Movement Acquainted with keys of Basic concept of bouncing ball Bouncing ball with spacing, Timing & distance Different materials bouncing balls together with Concept ☐ Understanding the usage of Graph Editor ☐ Progressive Bouncing Ball with timing, spacing & distance Previous session with Stretch and Squash

Pendulum with Settlement

Box with antenna
Posing for understanding the body balance & arc
Posing with self-reference
Biped Walk cycle progressive with distance
Quadrupeds Walk cycle progressive with distance
Final correction with graph editor & Dope Sheet
Pulling/Lifting/Pushing Heavy weight objects
Run Cycle
Jump with distance
Various Jump with distance & prop
Moving object from one place to another place
Throwing ball on usage of hide & show
Basic mouth expression with - A E I O U
Lip - sync with dialogue
Expressions with Joy, anger, shock, etc.
Expressions with Joy, anger, shock, etc.
Self-expressions with Head, Lips, Eyebrow, Eyes etc
Work on personal show reel under the guidance of mentor
Use of camera angles & lights
FS23DAVE108: Dynamics and Maya Tech Animation
FS23DAVE108: Dynamics and Maya Tech Animation Introduction to particle Menus & its attributes
Introduction to particle Menus & its attributes
Introduction to particle Menus & its attributes Emitters & its Attributes
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles Introduction to Fluid Effect
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles Introduction to Fluid Effect Boat on an Ocean
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles Introduction to Fluid Effect Boat on an Ocean Particles into Glass
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles Introduction to Fluid Effect Boat on an Ocean Particles into Glass Introduction to Soft Bodies & Soft body Surface Simulation
Introduction to particle Menus & its attributes Emitters & its Attributes Particle - Travel on Surface Particle Instancer Making Static Cloud with Particles Introduction to Fluid Effect Boat on an Ocean Particles into Glass Introduction to Soft Bodies & Soft body Surface Simulation Soft Body - Rope Simulation
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	Creating hair on a character
	Introduction to nCloth
	Flag simulation with ncloth
	Introduction to nparticle
	Cereal Bowl
FS23	BDAVE109: After Effects, Fusion and Nuke, Real Flow / Maya Bifrost (Roto Artist-2019/ME/MESC/3449)
	After Effect
	UI & Workflow
	Basic of animation (Text and shape animation)
	Advanced Animation (Curve Editor)
	Creating Presets Like lower third and title animation
	Introduction of 3d layer
	Use of 3d Light Camera
	Creating 3d Motion Graphics & TVC
	Basic of compositing
	Rotoscoping Basic
	Advanced rotoscoping (Character roto)
	Keying Basic
	Keying Advanced
	Compositing a chroma shot
	Tracking and stablise footages
	Effects
	Particles Effects
	Fusion
	UI & Workflow
	Transform, Merge Node
	Basic Animation and Curve Editor
	Roto Node and Rotoscoping
	Rotoscope Advanced (Character, Hair & Motion Blur)
	2D Tracking &Stablize Footage
	Keying with Differents Nodes
	Basic Compositing
	Intro 3d
	3d Compositing
	Diplacement Node & Effects
П	Particles Nodes

□ Nuke

Nuke Workflow
Creating Matte paint using Roto& Paint Node
Transformation & Animation
Rotoscope Basic
Rotoscope Advanced (Character, Hair & Motion Blur)
Shuffle & Shuffle Copy
Merge Tools with basic Compositing
Color Correction
Keying Basic
Keying Advanced
Procedural Keying
Tracking 2D, Planer Tracking
Stabilize footage
Introduction to 3D
Import Geometry
Camera & Lights
Camera Projection
3D Tracking
Set Extention Using 3d camera and Projection
3D Compositing
Paint, Cloning, Wire Removal using Roto Paint Node
Sequence paint in photoshop and final touch up & comp in Nuke
Deep Compositing
Relighting using Position Pass, Normal Pass
Stereoscope
Render Project
Furnance Tool
Workflow of Realflow
Real Flow Emitter and Particles Types
Object Emission in Real Flow
Filling glass with water
Importing & scaling 3D Geometry
Creating mesh and Interaction with 3D Geo
Importing Mesh into Maya and basic lighting, Shading
Ultra - motion water splash with Rigid body
Grapes interaction with Fluids
Rigid Body and Soft Body Dynamics
Breaking Objects and optimizing Simulation
Real wave Surface

	Morph Daemon
	Hybrido
	Realflow render kit in Maya with example tsunami in city – $I\&II$
	Use of wet map in Maya.
	Use entire real flow tools; How to optimize the project; Princess came from water. –
	Princess came from water. – II
	Render passes and compositing for project princess came from water.
	Maya Live Interface
	Maya Live - 2D v/s 3D Tracking
	Maya Live - 3D Camera Tracking
	UI and basic workflow of Boujou
	Basic example with auto tracking and solving
	Complicated example with auto tracking and solving
	Manual tracking for the shot where auto tracking is not properly working.
	Auto tracking & Solving
	Solved Camera Zoom
	Solve Lens Distorted Footage
	Tracking using Geometry
	Object Tracking
	GD on various kind of camera moves and problems and their solution
	More Examples
	Generate Z - depth
	Track Stereo Footage
	Integration of Solved data with Various Applications
	Troubleshooting
	FS23DAVE110 Motion Builder, Boujou / Syntheyes / Pftrack
	Introduction and Overview
	Exploring Motion Builder's navigation controls
	Working with the Transport Controls
	Animation with rigid bodies
	Parenting and Aligning objects
	The Control Rig
	Auxiliary Pivots
	Motion capture data to a Character
	Rigid body dynamics
	Keyframes Recording
	Understanding character setup
П	working with skalatons

Creating a custom camera
Rendering out movies for previews Solve Lens Distorted Footage
Workflow of Real flow
Real Flow Emitter and Particles Types
Object Emission in Real Flow
Filling glass with water
Importing & scaling 3D Geometry
Creating mesh and Interaction with 3D Geo
Importing Mesh into Maya and basic lighting, Shading
Ultra-motion water splash with Rigid body
Grapes interaction with Fluids
Rigid Body and Soft Body Dynamics
Breaking Objects and optimizing Simulation
Real wave Surface
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Real flow render kit in Maya with example tsunami in city $-$ I& II
Use of wet map in Maya.
Use entire real flow tools; How to optimize the project; Princess came from water. – \boldsymbol{I}
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Auto tracking & Solving
Solved Camera Zoom
Solve Lens Distorted Footage
Tracking using Geometry
Object Tracking
GD on various kind of camera moves and problems and their solution
More Examples
Generate Z - depth
Track Stereo Footage
Integration of Solved data with Various Applications
Troubleshooting

${\bf FS23DAVE111: Introduction\ to\ Entrepreneurship}$

 $Introduction\ to\ Entrepreneurship-Introduction\ and\ concept\ of\ Entrepreneurship$

Theory of Entrepreneurship – Entrepreneurship in developing countries, Entrepreneurship stimulation, Entrepreneurship and economic growth, Entrepreneurship and Economic system, various theories of Entrepreneurship

 $Growth\ of\ Entrepreneurship-Role\ of\ Entrepreneurship,\ Growth\ of\ Entrepreneurs,\ Prospects\ for\ Entrepreneurship$

Nature and Importance of Entrepreneurship – Entrepreneurship Qualities, Entrepreneurship Functions, Entrepreneurship Vs Entrepreneurs, Opportunity matrix, Entrepreneurship Decision, Role of Entrepreneurship, Growth of Entrepreneurship

Classification and types of Entrepreneurship – Business Entrepreneurs, Types of Entrepreneurship, Entrepreneurship and Motivation, Growth and Entrepreneurship

Nature and scope of management – Scope of Management, Meaning of Management, Characteristics of Management, Objectives of Management, Management as a profession, Organization and Management, Branches of Management, Importance of Management, managerial Skills

Planning – Concepts, processes and types – Importance of Planning, Characteristics of Planning, a Good Plan, Advantages of Planning.

Concepts of an Organization – Organization Concepts, organization theory, formal and informal organization, significance of organization, the organization process, analysis of organization, nature of organization, organization as an art, group dynamics, organization development.

Motivation – Introduction, Meaning, Kinds of Motivation, MC Gregor's Theory X and Theory Y, Coordination, Need Hierarchy theory of Motivation, Motivational Techniques, Financial and Non-Financial Incentives.

Leadership – Introduction, Characteristics of leadership, great man theory of leadership, role of leadership, leadership styles, techniques of leadership, functions of leadership, qualities of leadership, process of leadership, develop voluntary cooperation.

Communication – Introduction, features of communication, Need, Communication Process, communication Process models, Gestural or non - verbal communication, Models of Grapevine, Communication Networks, Barriers of Communication, Effective communication, Improve written communication.

Accounting in an small enterprise – Need, How accounts maintained? Objectives of accounting, Ledger, Trial Balance, Final accounts Balance sheet etc.

Entrepreneurship development institutions -

AISECT model of Entrepreneurship

How to setup and AISECT Centre

Training for self - employment

FS23DAVE112: Show Reel Development Project

Understanding the	whole o	concept	of	animation	and	visual	effects	and	developing	a
sample show reel										
Knowledge of whole V	VFX pip	eline								

Counseling and Study Structure

				Total	Counseling and Study Structure (hours)					
S. No.	Course Code	Title of the Course	Cre dit	Hours of Study	Face to Face Couns eling	Self stud y	Pract ical	Assign ments		
Semester I										
1	FS23DAVE101	History of Animation, Principles of Design and Typography & Photography	4	60	08	22	12	18		
2	FS23DAVE102	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding	4	90	12	33	18	27		
3	FS23DAVE103	Introduction to Computer Graphics, Digital Animation by Adobe Animate and Video Editing by Premiere, Audio Editing by Adobe Audition (Digital Video Editor 2020/ME/NFDC039)	4	120	16	44	24	36		
4	FS23DAVE104	Communication & Personality Development	2	30	04	17	-	09		
5	FS23DAVE105	Modeling, Texturing and Lighting	4	120	16					
6	FS23DAVE106	Safety Practices in the Work Environment	2	30	04	11	06	09		
		Semes	ter II							
7	FS23DAVE107	Rigging and 3D Character Animation	4	120	16	44	24	36		
8	FS23DAVE108	Dynamics and Maya Tech Animation	4	120	16	44	24	36		
9	FS23DAVE109	After Effects, Fusion and Nuke, Real Flow / Maya Bifrost(Roto Artist 2019/ME/MESC/3449)	4	90	12	33	18	27		
10	FS23DAVE110	Motion Builder, Boujou / Syntheyes / Pftrack	3	60	08	22	12	18		
11	FS23DAVE111	Introduction to Entrepreneurship	2	30	04	17	-	09		
12	FS23DAVE112	Show - Reel Development Project	3	90	-	-	90	-		

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23DAVE10	History of Animation, Principles of Design and Typography, Photography	1. A New History of Animation Illustrated Edition; Maureen Furniss; f Thames & Hudson 2. Typography Essentials: 100 Design Principles for Working with Type; Ina Saltz 3. The Beginner's Photography Guide: The Ultimate Step-by-Step Manual for Getting the Most from your Digital Camera Flexibound; DK, (Module referred from external web source)
2	FS23DAVE10 2	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding	1. Masters of Anatomy Book One: The Ideal Male & Female Body; J. Scott Hughes, Adam; Madureira, Joe; Ramos, Humberto; Campbell, Masters of Anatomy 2. The Fundamentals of Drawing Still Life; Barrington Barber 3. Color Theory: An Essential Guide to Color-From Basic Principles To Practical Applications (Artist's Library); Patti Mollica; Walter Foster Publishing 4. Directing the Story: Professional Storytelling and Storyboarding Techniques for Live Action and Animation: Francis Glebas; Focal Press; 1st edition; (Module referred from external web source)
3	FS23DAVE10	Introduction to Computer Graphics, Digital Animation by Adobe Animate and Video Editing by Premiere, Audio Editing by Adobe Audition	1. Introduction to Computer Graphics Hardcover: James D. Foley; Addison Wesley; Subsequent edition 2. Adobe Animate Classroom in a Book 2022; Russell Chun, Adobe Press 3. Adobe Premiere Pro Classroom in a Book 2022, Maxim Jago; Adobe Press 4. Adobe Audition CC Classroom in a Book: Adobe Creative Team (Author), Maxim Jago; Adobe Press (Module referred from external web source)
4	FS23DAVE10	Communication and Personality Development	S68-Effective Communication & Personality Development

			1. Digital Modeling ; William Vaughan Pearson Education				
5	FS23DAVE10 5	Modeling, Texturing and Lighting	2. 3D Art Essentials: The Fundamentals of 3D Modeling, Texturing, and Animation Paperback – Illustrated, Ami Chopine 3. 3D Lighting: History, Concepts and Techniques (Graphics Series); Arnold Gallardo; S. Chand (G/L) & Company Ltd; Har/Cdr edition, (Module referred from external web source)				
	Ü	ng nong					
6	FS23DAVE10 6	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene				
	FS23DAVE10	Rigging and 3D	1. The Art of Rigging (A Definitive Guide to Character Technical Direction with Alias Maya, Volume 1); Kiaran Ritchie, Jake Callery, Karim Biri; CG Toolkit				
7	7	Character Animation	2. Character Animation in 3D: Use traditional drawing techniques to produce stunning CGI animation (Visual Effects & Animation S.); Steve Roberts; ¡Focal Press; 1st edition				
			1. Learning Maya Dynamics Paperba Alias Wavefront ;Alias Wavefront				
8	FS23DAVE10 8	Dynamics and Maya Tech Animation	2. Maya Studio Projects: Dynamics Paperback; Todd Palamar; Sybex; Pap/Dvdr edition (27 October 2009); (Module referred from external web source)				
			1. Nuke 101: Professional Compositing and Visual Effects; Ganbar; Pearson Education India; first edition				
			2. Adobe After Effects CC Classroom in a Book ;Adobe Creative Team; Adobe; Pap/Psc edition				
		After Effects Eusien	3. Digital Compositing with Blackmagic Fusion: Essential Techniques ;Lee Lanier				
9	FS23DAVE10 9	After Effects, Fusion and Nuke, Real Flow /	Routledge; 1st edition				
	Ü	Maya Bifrost	4. Introduction to Sculpting Fluid Dynamics: Real Flow Techniques with Wayne England; Wayne England; The Gnomon Workshop				
			5. Autodesk Maya 2020 Bifrost Extension; SerdarHakanDÜZGÖREN ;SerdarHakan DÜZGÖREN				
			6.Autodesk Maya 2020: A Comprehensive Guide, 12th Edition;				

			Prof Sham Tickoo ; Cadcim Technologies
			7. Nuke 101: Professional Compositing and Visual Effects; Ganbar
			Publisher : Pearson Education India; first edition (13 April 2011); (Module referred from external web source)
	FS23DAVE11 0		1. The Animator Toolkit for Motion Builder; Brad Clark ; Rigging Dojo - Brad Clark, Chad Moore; 1st edition
10		Motion Builder, Boujou /	2. The Art and Technique of Matchmoving: Solutions for the VFX Artist; Erica Hornung ; Routledge; 1st edition
			3. Matchmoving: The Invisible Art of Camera Tracking; Tim Dobbert; Sybex; 2nd edition (Module referred from external web source)
11	FS23DAVE11	Introduction to Entrepreneurship	S56 : Introduction to Entrepreneurship
12	FS23DAVE11 2	Practical -	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson (Module referred from external web source)

CERTIFICATE IN 2D ANIMATION (FS23CA)

Certificate in 2D Animation (FS23CA)

सर्टिफिकेटइन 2Dएनिमेशन(FS23CA)

(A) Duration : 06 Months (D) Courses : 09

(अ) अवधि : 06 माह (द) कोर्सेस : 06

(B) Eligibility: 10th Pass (E) Credit: 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : 20

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Credit	Total Marks	Theory		Practical Marks		Assignment s		V. a. I. a. a. a. Outanaa	
Code				Ma x	Mi n	Max	Min	Max	Min	Key Learning Outcomes	
										 Navigate the Adobe Animate interface and workspace efficiently. 	
										 Create basic shapes and vector graphics using Adobe Animate's drawing tools. 	
FS23CA101	Introduction to Adobe Animate	3	100	50	20	20	8	30	12	 Understand the principles of animation, such as timing, spacing, and anticipation. 	
										 Create and use symbols to streamline your animation process. 	
										 Add sound effects and music to your animations. 	

FS23CA102	Drawing and Design Tools	3	100	50	20	20	8	30	12	 Create precise paths and shapes with Bézier curves, allowing for smooth and intricate designs. Apply solid colors, gradients, or patterns to shapes and lines for visual depth and interest. Convert frequently used elements into symbols for efficient reuse and reduced file size. Experiment with different blending modes to create unique visual effects, like overlapping shadows or transparency.
FS23CA103	Adobe Illustrator	3	100	50	20	20	8	30	12	 Understand the layout, panels, and tools available. Create precise paths and shapes with Bézier curves, essential for intricate designs. Rotate, scale, skew, and distort shapes to achieve desired compositions and effects. Create, edit, and format text using various fonts, sizes, and styles. Mix and match colors accurately using various color models and swatches.

FS23CA104 Animation Basics(Animator 2022/ME/MESC/05192)		3	100	50	20	20	8	30	12	 To know about principles of animation. To know about animation techniques. To know about storyboarding and planning. 	
FS23CA105	Communication & Personality Development	1	100	70	28	-	-	30	12	 To know about software and tools. Basic communication skills Personality grooming 	
FS23CA106	Motion Tweens , Shape Tweens , Morphing and Easing Animation	3	100	50	20	20	8	30	12	 To know about motion tweens and shape tweens. To know about the morphing. Understand different easing functions. Optimize tween performance. 	
FS23CA107	Character Rigging ,Frame- by-Frame Animation and Lip Syncing	2	100	50	20	20	8	30	12	 Understand the skeleton system and advanced rigging techniques. To know about the traditional animation principles. Understand the audio analysis and phoneme identification. 	
FS23CA108	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	• Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene	

FS23CA109 Show Reel Development	1	100	50	20	20	8	30	12	Understanding the whole concept of 2D Animation and developing a sample show reel
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Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23C2A101: Introduction to Adobe Animate

	Drawing cartoons with basic forms.
	Introduction to the software interface.
	Understanding the workspace: stage, timeline, and tools
	Differentiating between vector and raster graphics.
	Setting up a new project.
	Adjusting document settings and properties.
	Saving and exporting projects in various formats.
	Exploring the drawing tools (pen, brush, pencil).
	Understanding shapes and lines.
	Using the color palette and gradients.
	Creating and managing symbols.
	Understanding instances and their significance.
	Using symbols for animation and interactivity.
	Understanding the timeline and frame-based animation.
	Keyframes, frames, and layers.
	Frame manipulation and navigation.
	Introduction to motion tweens.
	Creating smooth animations with classic tweens.
	Exploring shape tweens for morphing effects.
	Basics of frame-by-frame animation.
	When to use frame-by-frame vs. tweens.
	Creating realistic motion through frame-by-frame.
	Introduction to the Bone tool for skeletal animation.
	Rigging characters for movement.
	Understanding inverse kinematics (IK).
	Introduction to buttons and interactive components.
	Adding actions to frames and buttons.
	Creating simple interactive elements.
	Importing and syncing audio with animations.
	Integrating video files into projects.
	Adding basic audio and video controls.
	Previewing animations.
	Publishing projects for various platforms.
	Understanding masks and their applications.
П	Integrating code into Adobe Animate projects

FS23C2A102: Drawing and Design Tools

	User Interface
	Drawing Shapes
	Layers and the Timeline
	External Images and the Library Panel
	Working with Text and Fonts
	Graphic Symbols
	Frame by Frame Animations
	Shape Tweens
	Inverse kinematic Bone Tool
	Button Symbols
	Movie Clips
	1Filters and Blend Modes
	FS23C2A103: Adobe Illustrator
	Overview of Drawing and Design in Various Industries
	Importance of Drawing and Design Tools in Creative Fields
	Introduction to Digital Drawing Tools
	Understanding Different Design Software
	Basics of User Interface and Navigation in Design Tools
	Sketching and Freehand Drawing
	Understanding Lines, Shapes, and Forms
	Principles of Composition in Design
	Introduction to Color Theory
	Basic Typography in Design
	Introduction to Vector Graphics
	Using Vector Drawing Tools
	Creating Illustrations and Icons
	Working with Paths and Bezier Curves
	Color Gradients and Blending Modes
	Basics of Raster Graphics
	Photo Editing Techniques
F	FS23C2A104: Animation Basics (Animator 2022/ME/MESC/05192)
	Introduction to Adobe Animate CC interface.
	Understanding the workspace: Stage, Timeline, Tools panel, and Properties panel.
	Setting up a new project and document settings.
	Understanding keyframes and frames per second (FPS).

	Creating simple animations using basic shapes.
	Exploring the motion tween and shape tween features.
	Working with the onion skin tool for frame-by-frame animation.
	Introduction to symbols: graphic symbols, movie clips, and buttons.
	Creating reusable assets with symbols.
	Understanding instances and their role in animation.
	Exploring the library and managing symbols.
	Basics of character design for animation.
	Rigging characters for animation using the bone tool.
	Creating walk cycles and other character animations.
	Understanding the principles of squash and stretch.
	Importing audio files into Adobe Animate.
	Syncing animations with sound.
	Adjusting volume and using basic sound editing tools.
	Adding visual effects using filters.
	Exploring blur, glow, and other filter options.
	Creating animated effects for emphasis.
	Introduction to basic interactivity in Adobe Animate.
	Overview of ActionScript and its role in animation.
	Creating simple interactive animations.
	Exporting animations in various formats (SWF, GIF, video).
	Publishing animations for web and other platforms.
	Best practices for optimizing and compressing animations.
	Advanced motion tweening techniques.
	Exploring shape morphing and advanced character animation.
	Working with masks and blending modes.
	FS23C2A105: Communication and Personality Development
Comn	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right
	Nouns : Countable and Uncountable, Pronouns : Personal, Relative and Others, Articles
	The Parts of Speech, The Prepositions, Clauses : Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter

Person	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self confidence b) Mnemonics c) Goal setting d) Time Management and effective planning $$
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self acceptance and self growth
FS	S23C2A106: Motion Tweens, Shape Tweens, Morphing and Easing Animation
	Definition of Motion Tween
	Applying Motion Tween to animate objects
	Keyframing and setting motion paths
	Exploring properties such as position, scale, rotation
	Working with the timeline for precise control
	Introduction to easing and timing functions
	Customizing motion with easing effects
	Creating smooth transitions between keyframes
	Understanding Shape Tween as a tool for morphing shapes
	Key differences between Motion Tween and Shape Tween
	Transforming one shape into another using Shape Tween
	Adjusting parameters for optimal results
	Handling complex shapes and vector graphics
	Troubleshooting common issues in Shape Tweening
	Definition and purpose of morphing in animation
	Real-world examples of morphing effects
	Techniques for achieving smooth morphing transitions
	Integrating morphing into animations for storytelling
FS	23C2A107: Character Rigging,Frame-by-Frame Animation and Lip Syncing
	Importance of character rigging in animation.
	Overview of bones, joints, and IK (Inverse Kinematics).
	Rigging a simple character with basic movements.
	Rigging characters with multiple joints and complex structures.

Ш	exploring additional features like constraints and deformers.
	Best practices in character rigging for efficient animation.
	Understanding the concept of frame-by-frame animation.
	Creating keyframes and in-between frames for smooth animation.
	Techniques for animating characters using frame-by-frame approach.
	Step-by-step guide to creating a walk cycle.
	Animating other character movements (run, jump, etc.).
	Adding personality to character animations through nuanced movements.
	Importance of lip syncing in character animation.
	Introduction to phonemes and their association with lip movements.
	Manual lip-syncing techniques for basic dialogue.
	Lip syncing with automatic audio detection.
	Refining lip sync animations for realistic results.
	Tips and tricks for syncing character expressions with dialogue.
	Bringing rigged characters and animations into a project.
	Exporting animations in different formats for various platforms.
	Integration with other Adobe Creative Cloud applications.

E---laring additional factures libe constraints and deferment

FS23C2A108: Safety Practices in the Work Environment

Safety Signs &Colour at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs &Colour- Sign categories, Sign types.

First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.

Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.

Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.

Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.

Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipments, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?

Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.

Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.

FS23C2A109: Show - Reel Development

□ Understanding the whole concept of Animation and developing a sample show reel

Counseling and Study Structure

			Credi t	Total	Counseling and Study Structure (hours)				
Sl. No.	Course Code	Title of the Course		Hours of Study	Face to Face Counseli ng	Self study	Pract ical	Assignm ents	
1	FS23C2A101	Introduction to Adobe Animate	3	90	12	33	18	27	
2	FS23C2A102	Drawing and Design Tools	2	60	08	22	12	18	
3	FS23C2A103	Adobe Illustrator	2	60	08	22	12	18	
4	FS23C2A104	Animation Basics(Animator 2022/ME/MESC/05192)	2	60	08	22	12	18	
5	FS23C2A105	Communication & Personality Development	1	30	04	17	-	09	
6	FS23C2A106	Motion Tweens, Shape Tweens, Morphing and Easing Animation	2	60	08	22	12	18	
7	FS23C2A107	Character Rigging ,Frame-by-Frame Animation and Lip Syncing	2	60	08	22	12	18	
8	FS23C2A108	Safety Practices in the Work Environment	1	30	04	11	06	09	
9	FS23C2A109	Show Reel Development	1	30	-	-	30	-	

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
			Adobe Animate CC Classroom in a Book: Blanchard on Leadership and Creating High Performing OrganizationsRussell Chun (Author)
1	FS23C2A101	Introduction to Adobe Animate	2. Adobe Animate Classroom in a Book (2023 Release)by Russell Chun (Author)
			3. Beginning Adobe Animate CC: Learn to Efficiently Create and Deploy Animated and InteractiveTOM GREEN (Author), Joseph Labrecque (Author)
			1. DESIGN DRAWING, 3RD EDITION Paperback – Illustrated, by Francis D. K. Ching (Author), Steven P. Juroszek
2	FS23C2A102	Drawing and Design Tools	2. Design Drawing Experiences 2000 Paperback by William Kirby Lockard (Author)
			3. Successful Drawing Hardcover by Andrew Loomis (Author)
	FS23C2A103	Adobe Illustrator (Animator	Adobe Illustrator CC for Dummies 1st Edition by David Karlins (Author)
3			2. Adobe Illustrator CC Classroom in a Book 1st Edition by Brian Wood (Author)
		2022/ME/MESC/05192)	3. Adobe Illustrator Classroom in a Book (2023 release): The Official Training Workbook from Adobe by Brian Wood (Author))
			1. Adobe Animate CC Classroom in a Book: Blanchard on Leadership and Creating High Performing Organizations Russell Chun (Author)
4	FS23C2A104	Animation Basics	2. Adobe Animate Classroom in a Book (2023 Release) by Russell Chun (Author)
			3. Beginning Adobe Animate CC: Learn to Efficiently Create and Deploy Animated and Interactive TOM GREEN (Author), Joseph Labrecque (Author)
5	FS23C2A105	Communication & Personality Development	S68-Effective Communication & Personality Development

6	FS23C2A106	Motion Tweens , Shape Tweens , Morphing and Easing Animation	 Adobe Animate CC Classroom in a Book: Blanchard on Leadership and Creating High Performing Organizations Russell Chun (Author) Adobe Animate Classroom in a Book (2023 Release) by Russell Chun (Author) Beginning Adobe Animate CC: Learn to Efficiently Create and Deploy Animated and Interactive TOM GREEN (Author), Joseph Labrecque (Author)
7	FS23C2A107	Character Rigging ,Frame-by- Frame Animation and Lip Syncing	 Adobe Animate CC Classroom in a Book: Blanchard on Leadership and Creating High Performing Organizations Russell Chun (Author) Adobe Animate Classroom in a Book (2023 Release) by Russell Chun (Author) Beginning Adobe Animate CC: Learn to Efficiently Create and Deploy Animated and Interactive TOM GREEN (Author), Joseph Labrecque (Author)
8	FS23C2A108	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9	FS23C2A109	Show - Reel Development	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson; Kindle Edition, (Module referred from external web source)

CERTIFICATE IN 3D ANIMATION (FS23CTDA)

Certificate in 3D Animation (FS23CTDA)

सर्टिफिकेटइन3Dएनिमेशन(FS23CTDA)

(A) Duration : 06 Months (D) Courses : 09

(अ) अवधि : 06 माह (द) कोर्सेस : 09

(B) Eligibility : 10th Pass (E) Credit : 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : 20

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Cre	Total	Theory		Practical Marks		Assignme nts		Key Learning Outcomes	
Code	Title of the Course	dit	Mark s	M ax	Min	Max	Min	Ma x	Mi n	Key Learning Outcomes	
FS23CTDA101	(Modeller2019/ME/MESC/3 443)		100	50	20	20	8	tools and techniques modelling in Autodes Understanding the of hypershades, MAYA Nodes-Blinn, Phongo Knowledge of working		 tools and techniques for prop modelling in Autodesk Maya Understanding the overview of hypershades, MAYA surface Nodes-Blinn, Phong& Lambert Knowledge of working with transparency, reflection & 	
FS23CTDA102			100	50	20	20	8	30	12	 Understanding the concept of nature lights and its properties, Key, Fill & Rim light Basic knowledge of MAYA lights, direct, spot, ambient, area and volume Familiarity with making and breaking light links with camera attributes and its 	

										angles.
FS23CTDA103	Introduction to Rigging and Skinning	3	100	50	20	20	8	30	12	 Understanding of basics of Rigging, connections and deformers Basic knowledge of Joints and IK handles Familiarization with skinning, paint skinning, weight tool and component editor.
FS23CTDA104	A104 Principles of Character Animation		100	50	20	20	8	30	12	 Basic introduction of Animation including timeline, slider, key frames along with its principles Knowledge of follow through secondary movement, acquainted with keys of basic concepts of bouncing ball with spacing, time and distance. Understanding the different materials of bouncing balls used together with concept. Understanding the usage of Graph editor with progressive bouncing balls, stretch, squash.
FS23CTDA105	Communication & Personality Development	1	100	70	28	-	-	30	12	Basic communication skillsPersonality Grooming
FS23CTDA106	Fundamentals of Maya Dynamics, Introduction to Hair Fur and Cloth Simulation	3	100	50	20	20	8	30	12	 Familiarity with the particles Menus & its attributes along with emitters and its attributes Understanding the concept of fluid effects, field, soft bodies, rigid body and constraints Knowledge of basics of fur, hair and their attributes. Familiarity with the basics of n Cloth and flag simulation with

										n Cloth
FS23CTDA107	Basics of Adobe After Effects	2	100	50	20	20	8	30	12	 Understanding the concept of Broadcasting, its format and VFX movies Knowledge of compositing, Photoshop, work area, panels, etc. Basics of animation principles, parallax effects in 2D animation, Knowledge of color theory, chrome, 2.5D layer system, lighting parameters
FS23CTDA108	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
FS23CTDA109	Show-Reel Development	1	100	-	-	100	40	-	-	Understanding the whole concept of 3D Animation and developing a sample show reel

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23CTDA 1: Basics of 3D Modeling & Fundamentals of Texturing Technique (Modeller 2019/ME/MESC/3443)

Introduction to Maya interface
Difference between EP & CV. Curve Editing Tools
Types of surface (loft, Revolve etc)
Chessboard using Surface
Modeling a Slipper
Introduction to Basic Primitives
Stair case
Room Interior
Hand Blocking
Hand Modeling
Face Blocking
Face Modeling
Torso Blocking
Torso Modeling
Leg Blocking
Leg Modeling
Sofa model
Basic overview of hypershades
Working with Maya Surface Nodes - Blinn, Phong& Lambert
Bump & Displacement Maps
Working with Transparency, Reflection & Refraction
Creating or making a wine bottle with glass
Overview of 2D & 3D Texture
Texture a Jacket using layered texturing
Introduction to UV Mapping
UV texture editor
Overview to Planner Mapping & its use
Match or Cigarette box texturing
Character Face UV Unwrap
3D Character UV Unwrap
Character Texture in Photoshop
Overview to 3D Paint
Introduction to Visor tool

FS23CTDA 2: Lighting and Camera Setup

Introduction to nature Lights & its properties
Maya Basic Lights
Working with Maya Lights 1-Point, Direct, Spot
Working with Maya Lights 2-Ambient, Area, Volume
Understanding Making & Breaking Lights link
Introduction to Key, Fill & Rim Light
Three-point Lighting to a Character
Lighting to an Interior
Environment lighting
Camera attributes & its angles
Render types & its parameters
Creating and Illuminating a Stage Show
Interior light in day time Drawing Stick figures in poses
FS23CTDA 3: Introduction to Rigging and Skinning
Introduction to Rigging
Working with Connections-1: Connection Editor & SDK (Tripod)
Working with Connections-2: Constraints and Utility Nodes
Deformers-Lattice, Wrap, Cluster
Deformers-Sculpt, Jiggle, Wire, Blend Shapes
Introduction to Joints and IK Handles
Creating an Arm Set-up
Arm Set-up: FK/IK Blend and Stretchy
Creating a Leg Set-up
Creating a Biped Rig 1: Setting up the Skeleton
Creating a Biped Rig 2: Finishing the Rig with Controls
Skin Binding and Painting Weights
Facial Rigging
Introduction to Muscle System artoons with basic forms.
FS23CTDA 4: Principles of Character Animation
Introduction to Animation (Timeline, Slider, Key Frames)
Explain the concept of Graph Editor & Dope Sheet
IK \ FK - Animation
Introduction to Animation Principles
Follow Through \ Secondary Movement
Acquainted with keys of Basic concept of bouncing ball

	Bouncing ball with spacing, timing & distance
	Different materials bouncing balls together with concept
	Understanding the usage of Graph Editor
	Progressive Bouncing Ball with timing, spacing & distance
	Previous session with Stretch and Squash
	Pendulum with Settlement
	Box with antenna
	Posing for understanding the body balance & arc
	Biped Walk cycle progressive with distance
	Quadrupeds Walk cycle progressive with distance
	Final correction with graph editor & Dope Sheet
	Pulling / Lifting / Pushing Heavy weight objects
	Run Cycle
	Jump with distance
	Moving object from one place to another place
	Throwing ball on usage of hide & show
	Basic mouth expression with - A E I O U
	Lip-sync with dialogue
	Expressions with Joy, anger, shock, etc
	FS23CTDA 5: Communication and Personality Development
Comm	FS23CTDA 5: Communication and Personality Development
Comm	
	nunication Skills
	Aunication Skills English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right
	Aunication Skills English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing <i>Right</i> Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building,
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary Developing Ability of Question and Answer, Body Language and Its Use in Speaking,
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter
Person	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter mality Development Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self

	Techniques in Personality development I a) Self-confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self-acceptance and self-growth
FS	23CTDA 6: Fundamentals of Maya Dynamics, Introduction to Hair Fur and Cloth Simulation
	Introduction to particle Menus & its attributes
	Emitters & its Attributes
	Particle - Travel on Surface
	Particle Instancer
	Making Static Cloud with Particles
	Introduction to Fluid Effect
	Boat on an Ocean
	Particles into Glass
	Introduction to Soft Bodies
	Soft Body - Rope Simulation
	Introduction to Rigid Body and Constraints
	Rope bridge simulation
	Introduction to Fur & its attributes
	Fur on Character: Baldness/Length/Color Map Baking
	Grass in an Environment
	Introduction to Hair attributes
	Hair Styling
	Hair Dynamics and Rendering
	Creating hair on a character
	Introduction to nCloth
	Flag simulation with ncloth
	Creation of Character Cloth
	Introduction to nparticle
	Cereal Bowl
	FS23CTDA 7: Basics of Adobe After Effects
	Drawing "1; What is Broadcasting?
	Broadcasting Formats.
	General Discussion about VFX movies
	What is Compositing? Make a compositing in Photoshop; Brief description of work area and panels.
	Preferences settings; Project settings; Create a basic compositing with compare to Photoshop.

Ш	Shortcut for trimming, split layer, jump to next-previous frames, etc.
	Animation principals; How to create Parallax effects in 2D animation through transform properties.
	Create Curtain, Clouds, etc using different Filters.
	What is Precompositing? Make Solar system with Precompositing.
	Describe Different masking tools; Animate a layer using mask path; Vegas and Stroke effects on mask path with simple motion graphics.
	Roto Principals; Mask an image using roto principal.
	Roto on a moving character.
	Color Theory; Brightness-Contrast, Level, Curves, Color Balance, HSB, etc with Photoshop
	Basic chroma removal filter with some simple examples; How to create hollow man effects.
	2.5D layer system with an example; Lighting parameters with an example.
	2D text effects; Fire FX, dancing text, etc; 3D text effects and how to use animation presets.
	Simple tracking and stabilizing (one point and two point)
	Paint tools and basic wire removal; Complicate wire/rig removal using Photoshop and after fx.
	Fire effects; Particle for motion graphics.

FS23CTDA 8: Safety Practices in the Work Environment

Safety Signs & Colour at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs & Colour- Sign categories, Sign types.

First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.

Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.

Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.

Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.

Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipments, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?

Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.

Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.

FS23CTDA 9: Show-Reel Development

Understanding the whole concept of 3D Animation and developing a sample show reel

Counseling and Study Structure

				Total	Counseling and Study Structure (hours)				
Sl. No.	Course Code	Title of the Course	Cre dit	Hours of Study	Face to Face Counsel ing	Self study	Prac tical	Assignm ents	
1	FS23CTDA101	Basics of 3D Modeling & Fundamentals of Texturing Technique (Modeller 2019/ME/MESC/3443)	3	90	12	33	18	27	
2	FS23CTDA102	Lighting and Camera++ Setup	3	60	08	22	12	18	
3	FS23CTDA103	Introduction to Rigging and Skinning	3	60	08	22	12	18	
4	FS23CTDA104	Principles of Character Animation	3	120	16	44	24	36	
5	FS23CTDA105	Communication & Personality Development	1	30	04	17	-	09	
6	FS23CTDA106	Fundamentals of Maya Dynamics, Introduction to Hair Fur and Cloth Simulation	3	60	08	22	12	18	
7	FS23CTDA107	Basics of Adobe After Effects	2	60	08	22	12	18	
8	FS23CTDA108	Safety Practices in the Work Environment	1	30	04	11	06	09	
9	FS23CTDA109	Show-Reel Development	1	30	-	-	30	-	

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23CTDA101	Basics of 3D Modeling & Fundamentals of Texturing Technique (Modeller2019/ME/ME SC/3443)	1. Digital Modeling; William Vaughan; Pearson Education 2. 3D Art Essentials: The Fundamentals of 3D Modeling, Texturing, and Animation Paperback – Illustrated; Ami Chopine; Routledge; 1st edition (28 April 2011) (Module referred from external web source)
2	FS23CTDA102	Lightening and Camera Setup	1. 3D Lighting: History, Concepts and Techniques (Graphics Series); Arnold Gallardo ;S.Chand (G/L) & Company Ltd; Har/Cdr edition (1 October 2000), (Module referred from external web source)
3	FS23CTDA103	Introduction to Rigging and Skinning	1. The Art of Rigging (A Definitive Guide to Character Technical Direction with Alias Maya, Volume 1); Kiaran Ritchie, Jake Callery, Karim Biri ; CG Toolkit (January 1, 2005), (Module referred from external web source)
4	FS23CTDA104	Principles of Character Animation	1. Character Animation in 3D: Use Traditional Drawing Techniques to Produce Stunning CGI Animation (Visual Effects & Animation S.); Steve Roberts; Focal Press; 1st edition (16 June 2004) 2. The Animators Survival Kit; Richard Williams; Farrar, Straus and Giroux; Fourth Edition, Revised (September 25, 2012)., (Module referred from external web source)
5	FS23CTDA105	Communication and Personality Development	S68-Effective Communication & Personality Development
6	FS23CTDA106	Fundamentals of Maya Dynamics, Introduction to Hair Fur and cloth simulation	1. Learning Maya Dynamics Paperback; Alias Wavefront ; Alias Wavefront (1 July 2002) 2. Maya Studio Projects: Dynamics Paperback; Todd Palamar ; Sybex; Pap/Dvdr edition 3. Beginning VFX with Autodesk Maya; Abhishek Kumar; Publisher: Apress 4. Breathe life into a 3D character with Maya's cloth and hair tools ; Creative Bloq Staff (3D World) (Module referred from external web source)
7	FS23CTDA107	Basics of Adobe After Effects	1. Adobe After Effects CC Classroom in a Book, Adobe Creative Team; Adobe; Pap/Psc

			edition (10 July 2013) (Module referred from external web source)
8	FS23CTDA108	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9	FS23CTDA109	Practical - Project/ Intership: Show Reel Development Project	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson,; Kindle Edition February 1st 2021 (Module referred from external web source)

CERTIFICATE IN VISUAL EFFECTS (FS23CIVE)

Certificate in Visual Effects (FS23CIVE)

सर्टिफिकेटइनविजुअलइफेक्ट्स(FS23CIVE)

(A) Duration: 06 Months (D) Courses: 09

(अ) अवधि : 06 माह (द) कोर्सेस : 09

(B) Eligibility: 10th Pass (E) Credit: 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : 20

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Cre	Total Mark			Practical Marks		Assignmen ts		Key Learning Outcomes
Code		dit	s	Max	Min	Max	Min	Max	Min	
										Understanding the fundamental drawing, cartoon with basic forms
FS23CIVE10	Fundamentals of Drawing, Perspective and Color	3	100	50	20	20	8	30	12	 Knowledge about the human body proportions, weight and balance of figure, human skeleton in orthographic views
	Theory									 Familiarity with drawing stick figures and gesture drawings
										Understanding the concept of perspective drawing and drawing perspective

	Introduction to Computer									 Understanding the concept of digital art, platform, user interface of Adobe Photoshop Basic understanding of selection different techniques, quick mask,
FS23CIVE10 2	Graphics	3	100	50	20	20	8	30	12	 color range, etc. Understanding of layer management, photo enhancement, corrections, filters, text effect in Photoshop and matte painting
										Understanding the concept of nonlinear editing, transition & Integrating audio
FS23CIVE10	Video Editing by Premiere, Audio Editing by Adobe Audition	3	100	50	20	20	8	30	12	 Basic knowledge of advance editing, tilting & superimposing, motion and filters
3										 Familiarity with importing and recording in sound forge audio editing, cleaning and restoring
										 Understanding of basics of Maya interface, curves &nurbs modeling.
FS23CIVE10 4	Basics of MAYA	3	100	50	20	20	8	30	12	• Familiarization with basic of overview of hypershades, Maya surface, nodes-blinn, phong& lambert
										 Overview of 2D&3D texturing, UV mapping, unwrapping and

										texturing • Basic introduction of nature lights & its properties, Maya basic lights, key fills & Rim lights to character and rendering
FS23CIVE10 5	Communication & Personality Development	1	100	70	28	-	-	30	12	Basic communication skillsPersonality grooming
FS23CIVE10 6	Dynamics and Maya Tech Animation	2	100	50	20	20	8	30	12	 Basic introduction of particle Menus & Emitters & its attributes Knowledge of fluid effects, boat on an ocean Understanding the concept of fur, its attributes, character Familiarity with hair dynamic, rendering ncloth, nparticles and cereal bowl
FS23CIVE10 7	After Effects and Fusion (Compositor 2022/ME/MESC/05200)	3	100	50	20	20	8	30	12	 Basic introduction of VFX Broadcasting and its formats Understanding the concept of compositing, animation principles, parallax effects in 2D animation Familiarity with the basics simple character roto, check errors, hair, motion blur roto Knowledge of 3D tools, render 3D space, shadow for chrome shot,

										lighting and camera projection
FS23CIVE10 8	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	• Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
FS23CIVE10 9	Show- Reel Development	1	100	50	20	20	8	30	12	 Understanding the whole concept of visual effects and developing a sample show reel Knowledge of whole VFX pipeline

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23CIVE101: History of Fundamentals of Drawing, Perspective and Color Theory

	Drawing cartoons with basic forms.
	Cartoon drawing.
	Learning human body proportions.
	Weight and balance of the figure.
	Drawing Stick figures.
	Drawing Stick figures in poses.
	Gesture drawings.
	Human Skeleton.
	Human skeleton in orthographic views.
	Understanding the concept of Perspective Drawing.
	1pt perspective concept, Definition. Drawing objects in 1pt persp.
	Drawing structure 1pt persp.
	2pt perspective concept, Definition. Drawing objects in 2pt persp.
	Drawing structure 2pt persp.
	3pt perspective concept, Definition. Drawing objects in 3pt persp.
	Drawing structure 3pt persp.
	Understanding Primary, Secondary and Tertiary colors.
	Creating color wheel of Primary, Secondary and Tertiary colors.
	Understanding the color tones and tints. Creating Color scale.
	FS23CIVE102: Introduction to Computer Graphics
	Introduction to Digital art and platform.
	User Interface of Adobe Photoshop.
	Basics (setting, color, resizing, canvas, brush)
	Selection tools (diff selection techniques, quick mask, color range, background eraser)
	Layer management.
	Photo enhancement and corrections.
	Text effect in Photoshop.
	Filters and effects.
	Understanding the concept of Matte paint
П	Matte painting

FS23CIVE103: Video Editing by Premiere, Audio Editing by Adobe Audition

	Concept of Non Linear Editing
	Basic Editing
	Transitions & Integrating Audio
	Advanced Editing
	Titling & Superimposing
	Motion & Filters
	Importing and recording in Sound forge
	Editing audio
	Cleaning and restoring audio
	FS23CIVE104: Basics of MAYA
	Introduction of Maya Interface
	Introduction to Curves &Nurbs modeling
	Introduction to Polygon modeling
	Basic Polygonal modeling
	Inorganic modeling
	Image based modeling.
	Basic overview of hypershades
	Working with Maya Surface Nodes-Blinn, Phong& Lambert
	Bump & Displacement Maps
	Working with Transparency, Reflection & Refraction
	Overview of 2D & 3D Texture
	UV mapping & unwrapping
	Texturing
	Introduction to nature Lights & its properties
	Maya Basic Lights
	Working with Maya Lights 1-Point, Direct, Spot
	Working with Maya Lights 2-Ambient, Area, Volume
	Introduction to Key, Fill & Rim Light
	Three-point Lighting to a Character
	Understanding Rendering
	FS23CIVE105: Communication and Personality Development
Comn	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing $Right$
	Noune: Countable and Uncountable Pronoune: Personal Relative and Others Articles

	The Parts of Speech, The Prepositions, Clauses : Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter
Perso	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self acceptance and self growth
	FS23CIVE106: Dynamics and Maya Tech Animation
	Introduction to particle Menus & its attributes
	Emitters & its Attributes
	Particle - Travel on Surface, particle Instancer
	Introduction to Fluid Effect
	Boat on an Ocean
	Introduction to Soft Bodies & Soft body Surface Simulation
	Soft Body - Rope Simulation
	Introduction to Rigid Body and Constraints
	Rope bridge simulation
	Introduction to Fur & its attributes
	Fur on Character : Baldness/Length/Color Map Baking
	Introduction to Hair attributes
	Hair Dynamics and Rendering
	Introduction to nCloth
	Flag simulation with ncloth
	Introduction to nparticle
	Cereal Bowl

FS23CIVE107: After Effects and Fusion (Compositor 2022/ME/MESC/05200)

What is Broadcasting? Broadcasting Formats; General Discussion about VFX movies
What is Compositing? Make a compositing in Photoshop.
Brief description of work area and panels. Preferences settings, Project settings. Create a basic compositing with compare to Photoshop."
Animation principles. How to create Parallax effects in 2D animation through transform properties.
Create Curtain, Clouds, etc using different Filters.
What is Precompositing? Make Solar system with Precompositing; Various use of Precompositing; Make Lava effect with the use of Precompositing; Time remapping - Freeze, Reverse, Stretch and how to play with time vs time graph.
Describe Different masking tools; Animate a layer using mask path.
$\label{thm:condition} \mbox{\sc Vegas and Stroke effects on mask path with simple motion graphics; Mask an image using roto principal."}$
Make some Double Role with steady camera.
Roto on a moving character; Hair roto, motion blur roto.
Sin city effects and simple day to night.
Basic Chroma removal filter with some simple examples.
How to create hollow man effects."
2D text effects. fire fx, dancing text, etc. 3D text effects and how to use animation presets.
Simple tracking and stabilizing. (one point and two point)
Basic Interface, Custom Preferences, use of Bins.
Show some work of movie/project in Fusion; Fusion Pipeline.
Introduce tools; Create a basic compositing with reference to after effects/Photoshop and with their workflow.
How to apply keys on a property with basic example; Displace a text on curtain.
Understanding Timeline; Interpolation, looping using Spline.
Define various tools for masking; Use of pre-mask and post-mask.
Simple character Roto& check errors
Hair, motion blur roto.
Introduction to color correction tools with \sin city fx example; Day to Night (extract luma matte)
Compose 3D render passes
How to use text tool?
Tools to remove Chroma, Basic Chroma remove, garbage masking for keying
One point, two point and four-point tracking
Stabilize shot, extend the tracking information
Introduction to 3D tools; Render 3D space; Interaction 3D tools with 2D tools.
Create shadow for a Chroma shot using camera and lighting.

☐ Camera projection using 3D tools in fusion.

FS23CIVE108: Safety Practices in the Work Environment

Safety Signs &Colour at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs &Colour- Sign categories, Sign types.

First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.

Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.

Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.

Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.

Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipments, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?

Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.

Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.

FS23CIVE109: Show - Reel Development

Understanding the whole concept of visual effects and developing a sample show reel
Knowledge of whole VFX pipeline

Counseling and Study Structure

		Course Code Title of the Course Credit		Total	Counseling and Study Structure (hours)						
S. No.	Course Code			Hours of Study	Face to Face Counse ling	Self study	Practi cal	Assignm ents			
1	FS23CIVE101	Fundamentals of Drawing, Perspective and Color Theory	2	60	08	22	12	18			
2	FS23CIVE102	Introduction to Computer Graphics	2	60	08	22	12	18			
3	FS23CIVE103	Video Editing by Premiere, Audio Editing by Adobe Audition	2	60	08	22	12	18			
4	FS23CIVE104	Basics of MAYA	2	60	08	22	12	18			
5	FS23CIVE105	Communication & Personality Development	1	30	04	17	-	09			
6	FS23CIVE106	Dynamics and Maya Tech Animation	2	60	08	22	12	18			
7	FS23CIVE107	After Effects and Fusion (Compositor 2022/ME/MESC/0 5200)	3	90	12	33	18	27			
8	FS23CIVE108	Safety Practices in the Work Environment	1	30	04	17	-	09			
9	FS23CIVE109	Show- Reel Development	1	30	-	-	30	-			

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23CIVE101	Fundamentals of Drawing, Perspective and Color Theory	1. The Fundamentals of Drawing Still Life; Barrington Barber; Arcturus Publishing Ltd 2. Color Theory: An Essential Guide to Color-From Basic Principles To Practical Applications (Artist's Library); Patti Mollica; Walter Foster Publishing, (Module referred from external web source)
2	FS23CIVE102	Introduction to Computer Graphics	1. Introduction to Computer Graphics Hardcover; James D. Foley; Addison Wesley; Subsequent edition (Module referred from external web source)
3	FS23CIVE103	Video Editing by Premiere, Audio Editing by Adobe Audition	1.Editing Digital Video (Digital Video and Audio Series); Robert Goodman, Patrick McGrath ; McGraw-Hill Education TAB; Pap/Cdr edition), (Module referred from external web source)
4	FS23CIVE104	Basics of MAYA	1.Autodesk Maya 2020 Basics Guide Kelly L. Murdock; SDC Publications; 1st edition (Module referred from external web source)
5	FS23CIVE105	Communication and Personality Development	S68-Effective Communication & Personality Development
6	FS23CIVE106	Dynamics and Maya Tech Animation	1. Learning Maya Dynamics Paperback; Alias Wavefront ; Alias Wavefront 2. Maya Studio Projects: Dynamics Paperback ; Todd Palamar ; Sybex; Pap/Dvdr edition (Module referred from external web source)
7	FS23CIVE107	After Effects and Fusion (Compositor 2022/ME/MESC/05200)	1. Adobe After Effects CC Classroom in a Book; Adobe Creative Team; ¡Adobe; Pap/Psc edition) 2. Digital Compositing with Blackmagic Fusion: Essential Techniques; Lee Lanier; ¡Routledge; 1st edition (Module referred from external web source)
8.	FS23CIVE108	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9.	FS23CIVE109	Practical - Project/ Intership: Show Reel Development Project	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson; Kindle Edition, (Module referred from external web source)

CERTIFICATE IN GRAPHICS DESIGN (FS23CGD)

Certificate in Graphics Design (FS23CGD)

सर्टिफिकेटइनग्रफिक्सडिजाइन(FS23CGD)

(A) Duration: 06 Months (D) Courses: 09

(अ) अवधि : 06 माह (द) कोर्सेस : 09

(B) Eligibility: 10th Pass (E) Credit: 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : 20

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Credit	Total	Theory		Practical Marks		Assignment s		V. I Out	
Code		Credit	Marks	Ma x	Mi n	Max	Min	Max	Min	Key Learning Outcomes	
	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding		100					30		Drawing cartoons with basic forms	
		3					8			 Learning human body proportions. 	
FG00 GGD101					20) 12	• Gesture drawings.	
FS23CGD101				50		20				Human Skeleton & Human skeleton in orthographic views	
										• 1pt,2pt,3pt perspective concept Composing the objects for Drawing.	

FS23CGD102	Exploring the Adobe Photoshop interface and Working Method of Vector & Rasterize Graphics	3	100	50	20	20	8	30	12	 Introduction Photoshop Describe the different color modes in Photoshop Describe the working of Layer comps List the different types of Shape tools Explain different types of conversion methods between modes
FS23CGD103	Exploring the Adobe Illustrator interface and Working Method of Vector Graphics	3	100	50	20	20	8	30	12	 Working with Adobe Illustrator Working with Shape, Gradients, Drawing tools Brush Tool, Painting, and Working with Effects Working with Graphics, Symbols, and 3D Effects Exporting, Creating Web Graphics, and Print Graphics
FS23CGD104	Creating Graphics for Print Media in Corel Draw (GRAPHIC DESIGNER 2019/ME/MESC/3418)	3	100	50	20	20	8	30	12	 Describe the basic features of CorelDraw Draw lines, insert calligraphy, and use reshaping tools in CorelDraw Work with layers and symbols in CorelDraw

										 Apply perspective, bevel, and powerclip effects in CorelDraw Convert objects to bitmaps and apply different effects to bitmaps
FS23CGD105	Communication & Personality Development	1	100	50	20	20	8	30	12	Basic communication skillsPersonality grooming
FS23CGD106	Creating Brochure, Books and Magazine graphics and Publishing Process	3	100	50	20	20	8	30	12	 Introduction – Media Publishing Work with documents and master pages Work with table and cell styles Create a book and export a book to Interactive PDF file using form fields
FS23CGD107	Web-based Platform Canva& Social Media	2	100	50	20	20	8	30	12	 Basic understanding of new Web-based graphics, Create a design. The Canva editor Collaborate on Canva designs Working in the Projects Page Upload and import to Canva Create student activities and assignments in Canva

			Getting started with Canva
			for design
			• Print Advertising
			• Canva Design Skills for Students
			• Typography & Layout
			• Creating a logo
			• Canva on your mobile
			• Presentations to impress from the experts
			• Graphic Design Basics
			• Social media mastery
			• Canva for the classroom
			• Branding your business
			• Introduction of Social Media Platform
			• Creating Post on Facebook, Twitter, Instagram
			Size and resolution
			 Basic knowledge of Multiple File Text, Images and Videos
			 Understand the Social Media Platforms and How They Can Be Used
			• Create A Professional Social Media Profile Image Using Just a Smartphone

										Master the Art of Posting on Social Media Platforms
										Source and Store Social Media Posting Ideas So That You Always Have Something to Share
										 Create A Social Media Marketing Post to A High Standard That Gets Engagement
										Understand the Power of Social Media Communities and How Powerful They Can Be for Brand Building
FS23CGD108	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
FS23CGD109	Show - Reel Development	1	100	50	20	20	8	30	12	Understanding the whole concept of graphic design and developing a sample show reel

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23CGD101: Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding

	Knowledge of drawing and its fundamentals and its application
	Understanding of perspective of still life and color theory, use of primary colors
	Understanding of Anatomy of human body and making of human body in animation form
	Drawing cartoons with basic forms.
	Cartoon drawing.
	Learning human body proportions.
	Weight and balance of the figure.
	Drawing Stick figures & Drawing Stick figures in poses.
	Gesture drawings.
	Human Skeleton & Human skeleton in orthographic views.
	1pt perspective concept, Definition; Drawing objects in 1pt persp.
	2pt perspective concept, Definition; Drawing objects in 2pt persp.
	3pt perspective concept, Definition; Drawing objects in 3pt persp.
	Composing the objects for Drawing.
	Understand the light behaviors with different materials.
	Pencil rendering, hatching and cross hatching.
	Creating light and shade.
	Monochromatic still life.
	Understanding Primary, Secondary and Tertiary colors.
	Creating color wheel of Primary, Secondary and Tertiary colors.
	Understanding the color tones and tints.
	Creating Color scale.
	Drawing human figure in Box form & in cylinder form
	Human muscle of Head, neck upper body and lower body
	Concept of storyboarding and its use in animation
	Story and storyboard design
	Camera angles for framing
FS	23CGD102: Exploring the Adobe Photoshop interface and Working Method of Vector & Rasterize Graphics
	Explain the various tools in the toolbox
	Use Preset Manager
	Describe the different color modes in Photoshop
	Describe the Preference panel

Work with layers
List the features of blending modes
Create an Adjustment layer
Describe the working of Layer comps
Describe Smart Objects
Describe Smart Filters
Explain Painting tools
Describe brush presets
List the different types of Shape tools
Describe Path Selection tools
Create a work path
Create a clipping path
Crop images using different Crop tools
Describe the Retouching tools
Explain the commands used for color correction
Describe the Histogram palette
Use the Liquefy command and apply effects to an image
Explain Lens Correction filter
Describe Vanishing Point
Explain the Filter Gallery
Describe the features of in-built filters
Discuss about Typefaces
Describe channels, bit depths, and spot channels
Explain different types of conversion methods between modes
Define actions
Use the Batch command
Explain the Photo merge feature
Use the Automate commands available in Photoshop
Create data-driven graphics
Explain slices
Save files for Web
Explain the Zoomify feature
Create a rollover
Create a Web Photo Gallery
Create an animated GIF file
Work with 3D files
Create a 3D model
Edit textures in a 3D model
Describe the Timeline palette

Create images for videos
Edit videos
23CGD103: Exploring the Adobe Illustrator interface and Working ethod of Vector Graphics (Graphic Designer 2019/ME/MESC/3418)
Illustrator Workspace Environment
Working with Documents
Working with Objects
Modifying Fill and Stroke Attributes
Saving Documents
Learner's Guide &
Work Assignments
Layers, and Text
Session Contents:
Gradients and Patterns
Drawing Tools
Working with Groups, Layers, and Transparencies
Working with Text
Learner's Guide &
Work Assignments
Session Contents:
Measuring Objects
Live Paint Tool and Live Paint Bucket Tool
Working with Brushes
Adding Effects
Compound Paths
Clipping Mask
Tracing Raster Graphics
Converting Tracing to Paths
Graphic Styles
Applying Appearance Attributes
Symbols
Working with Three Dimensions in Illustrator
Perspective Grids
Actions
Learner's Guide &
Work Assignments
Creative Illustrations
Printing

	Exporting Files
	Illustrator for the Web
	Slices
	Save for the Web
	Scalable Vector Graphics
	Data-driven Graphics and Variables
	Printing
J	FS23CGD104: Creating Graphics for Print Media in Corel Draw (Graphic Designer 2019/ME/MESC/3418)
	Describe the basic features of CorelDraw and the common features between CorelDraw and Illustrator $$
	Perform actions like drawing, selecting, changing order, transforming, duplicating, and organizing objects in $CorelDraw$
	Navigate around CorelDraw document and save it
	Draw lines, insert calligraphy, and use reshaping tools in CorelDraw
	Apply fills and outlines to illustrations in CorelDraw
	Use pages and layout tools and different viewing modes
	Work with layers and symbols in CorelDraw
	Use artistic and paragraph text in CorelDraw
	Edit and format artistic and paragraph text in CorelDraw
	Perform actions such as text wraps and linking of text
	$Find \ and \ replace \ text \ and \ special \ characters, \ insert \ formatting \ codes, \ and \ identify \ fonts \ in \ CorelDraw$
	Apply envelopes, distortion effects, blends, and contours in CorelDraw
	Apply transparency, drop shadow effect, extrude, and lens effect in CorelDraw
	Apply perspective, bevel, and powerclip effects in CorelDraw
	Create boundaries to objects and copy and clone the effect of one object to another in $CorelDraw$
	Import and export projects
	Work with bitmap images
	Describe the importance of Internet toolbar
	Set the behavior of an object to a Web page
	Save documents created on CorelDRAW as PDF files
	Print objects/documents created on CorelDRAW
	Convert objects to bitmaps and apply different effects to bitmaps
	Publish files to PDFs
	Merge documents

FS23CGD105: Communication and Personality Development

Comm	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right
	Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles
	The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter
Person	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self-confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self-acceptance and self-growth
FS	23CGD106: Creating Brochure, Books and Magazine graphics and Publishing Process
	Describe workspace
	Work with panels
	Customize the workspace
	Work with documents
	Create pages
	Work with master pages
	Create liquid layouts
	Create alternate layouts
	Create templates
	Work with text frames
	Format text using different styles
	Create tables
	Modify tables

Work with table and cell styles
Create a text wrap around objects
Create text on path
Apply strokes and colors
Import and place graphics
Working with image layers
Link graphics
Create clipping paths
Create a book
Export a book to Interactive PDF file using form fields
FS23CGD107: Web-based Platform Canva& Social Media
Basic understanding of new Web-based graphics,
Create a design.
The Canva editor
Collaborate on Canva designs
Working in the Projects Page
Upload and import to Canva
Create student activities and assignments in Canva
Getting started with Canva for design
Print Advertising
Canva Design Skills for Students
Typography & Layout
Creating a logo
Canva on your mobile
Presentations to impress from the experts
Graphic Design Basics
Social media mastery
Canva for the classroom
Branding your business
Introduction of Social Media Platform
Creating Post on Facebook, Twitter, Instagram
Size and resolution
Basic knowledge of Multiple File Text, Images and Videos
Understand the Social Media Platforms and How They Can Be Used
Create A Professional Social Media Profile Image Using Just a Smartphone
Master the Art of Posting on Social Media Platforms
Source and Store Social Media Posting Ideas So That You Always Have Something to Share
Create A Social Media Marketing Post to A High Standard That Gets Engagement

Understand the Power of Social Media Communities and How Powerful They Can Be for Brand Building
FS23CGD108: Safety Practices in The Work Environment
Safety Signs & Color at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs & Color- Sign categories, Sign types.
First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.
Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipment/instruments, Basic steps of safe lifting and handling.
Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.
Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.
Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipment, Office safety procedures, Emergency action plan.
Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?
Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.
Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.
FS23CGD109: Show - Reel Development
Understanding the whole concept of graphic design and developing a sample show reel

Counseling and Study Structure

				Total	Counseling and Study Structure (hours)						
S. No.	Course Code	Title of the Course	Credit	Hour s of Stud y	Face to Face Couns eling	Self study	Practi cal	Assig nmen ts			
1	FS23CG D101	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study, Storyboarding	3	60	08	22	12	18			
2	FS23CG D102	Exploring the Adobe Photoshop interface and Working Method of Vector & Rasterize Graphics	3	90	12	33	18	27			
3	FS23CG D103	Exploring the Adobe Illustrator interface and Working Method of Vector Graphics	3	60	08	22	12	18			
4	FS23CG D104	Creating Graphics for Print Media in Corel Draw (GRAPHIC DESIGNER 2019/ME/MESC/3418)	3	60	08	22	12	18			
5	FS23CG D105	Communication & Personality Development	1	30	04	17	-	09			
6	FS23CG D106	Creating Brochure, Books and Magazine graphics and Publishing Process	3	90	12	33	18	27			
7	FS23CG D107	Web-based Platform Canva& Social Media	2	30	04	11	06	09			
8	FS23CG D108	Safety Practices in the Work Environment	1	30	04	11	06	09			
9	FS23CG D109	Show - Reel Development	1	30	-	-	30	-			

Study Modules & Books Information

Sr. No	Course Code	Subject Name		Modules/Books to be used
			1.	LEARN PENCIL DRAWING AND SHADING - Book 1&2: Education Based Art Book; Notion Press; 1st edition
1	FS23CGD10	Fundamentals of Drawing, Perspective, Still Life and Color Theory, Anatomy Study,	2.	Drawing: A Complete Guide (Art of Drawing); Search Press; Illustrated edition
		Storyboarding	3.	Basic Human Anatomy: An Essential Visual Guide for Artists; Monacelli Studio, (Module referred from external web source)
			1.	Adobe Photoshop Classroom in a Book (2021 release); Adobe Press; 1st edition
2	FS23CGD10 2	Exploring the Adobe Photoshop Interface and Working Method of Vector & Rasterize Graphics		Adobe Photoshop: The Complete Tutorial for Beginners to Learn; Adan Kalcanto
		-	3.	Photoshop CC Bible ; \(\) Wiley; 1st edition, (Module referred from external web source)
	FS23CGD10		1.	Learn Adobe Illustrator CC for Graphic Design and Illustration: Adobe Certified Associate Exam Preparation; Pearson Education; Second edition; Pearson Education
3		Exploring the Adobe Illustrator Interface and Working Method of Vector Graphics	2.	Adobe Illustrator Classroom in a Book (2022 release); Pearson Education (US); 1st edition
				Adobe Illustrator CC A Complete Course and Compendium of Features; Rocky Nook; Illustrated edition, (Module referred from external web source)
			1.	CorelDraw Training Guide; †BPB; First edition
	FS23CGD10	Creating Graphics for Print Media in	2.	Corel Draw: The Official Guide; McGraw Hill Education; First edition
4	4	Corel, Draw (GRAPHIC DESIGNER 2019/ME/MESC/3418)		CorelDraw 2017 & Home and Student Suite X8 - Training Book with many Exercises; Lindeman Group, (Module referred from external web source)
5	FS23CGD10 5	Communication & Personality Development		3-Effective Communication & Personality velopment
6	FS23CGD10 6	Creating Brochure, Books and Magazine Graphics and Publishing	1. 2. 3.	Adobe InDesign Classroom in a Book; Pearson Education (US); 1st edition Adobe InDesign Keyboard Shortcuts; U. C-Abel Books; 1st edition
		Process		Adobe InDesign Classroom in a Book; Adobe Press; 1st edition, (Module referred from external web source)

7	FS23CGD10 7	Web-based Platform Canva	 Social Media Modeling and Computing; Springer; 2011th edition Instagram Marketing: The Guide Book for Using Photos on Instagram; Newstone Publishing Social Media Marketing 2021: The Ultimate Mastery to use the secrets of digital Business and become an Influencer; Andrai Ventures LLC, (Module referred from external web source)
8	FS23CGD10 8	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9	FS23CGD10 9	Practical - Project/ Intership: Show Reel Development Project	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson; Kindle Edition, (Module referred from external web source)

CERTIFICATE IN BLENDER (FS23CB)

Certificate in blender (FS23CB)

सर्टिफिकेटइनब्लेण्डर(FS23CB)

(A) Duration: 06 Months (D) Courses: 09

(अ) अवधि : 06 माह (द) कोर्सेस : 09

(B) Eligibility : 10th Pass (E) Credit : 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : 20

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	T: 11 6 11 C	Credi	Total	Theory		Practical Marks		Assignment s		War I a service Out a service
Code	Title of the Course	t	Marks				Min	Max	Min	Key Learning Outcomes	
FS23CB101	Introduction blender interface	3	100	50	20	20	8	30	12	 Navigating the interface Menus, search, and shortcuts Creating and Modifying objects Making a scene and adding lights Rendering your scene 	
FS23CB102	Modeling and Sculpting (Modeller 2022/ME/MESC/05210)	2	100	50	20	20	8	30	12	 Overview of character creation tools Creating concepts with Grease Pencil Creating sculpture Optimizing model 3D modelling edit mode 	

FS23CB103	Texturing and shading	3	100	50	20	20	8	30	12	 Overview of texturing Creating different types of materials Shader Editor Unwrapping Pain texture, Paint Gourdy
FS23CB104	Rigging and lighting	3	100	50	20	20	8	30	12	 Bone Basics - Bone Parenting, Hierarchy & the Mirror Command Naming & Orientation Joints Constraint IK & Parenting Binding the model Weight Painting Introduction to Lighting Main/Keylight Fill light Background + rimlight The position of the light Hard and soft lighting The Point Lamp The Spot Lamp The Sun Lamp Lighting with Emmisive Surfaces Lighting With HDRI
FS23CB105	Communication & Personality Development	1	100	70	28	-	-	30	12	Basic communication skillsPersonality grooming

FS23CB106	Animation	2	100	50	20	20	8	30	12	 Overview of animation Creating armature and refining armature Shape keys and drivers Set keyframe Common animation tools Animate Gourdy
FS23CB107	Visual effects and simulation	3	100	50	20	20	8	30	12	 Overview of visual effects in Blender Geometry Nodes magic Creating cloth Hair simulation Fluids Creating fire Add an effect Camera setting and render animation Render Layers & Render Passes
FS23CB108	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	 Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
FS23CB109	Show - Reel Development	1	100	50	20	20	8	30	12	Understanding the whole concept of blender and developing a sample show reel

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23CB101: Introduction blender interface

	Navigating the interface
	Menus, search, and shortcuts
	Creating and Modifying objects
	Making a scene and adding lights
	Rendering your scene
FS	23CB102: Modeling and Sculpting (Modeller 2022/ME/MESC/05210)
	Overview of character creation tools
	Creating concepts with Grease Pencil
	Creating sculpture
	Optimizing model
	3D modelling edit mode
	FS23CB103: Texturing and shading
	Overview of texturing
	Creating different types of materials
	Shader Editor
	Unwrapping
	Pain texture, Paint Gourdy
	FS23CB104: Rigging and lighting
	Bone Basics - Bone Parenting, Hierarchy & the Mirror Command
	Naming & Orientation Joints
	Constraint
	IK & Parenting
	Binding the model
	Weight Painting
	Introduction to Lighting
	Main/Keylight
	Fill light
	Background + rimlight
	The position of the light
	Hard and soft lighting
	The Point Lamp
	The Spot Lamp
	The Area Lamp

	The Sun Lamp
	Lighting with Emmisive Surfaces
	Lighting with HDRI
	FS23CB105: Communication and Personality Development
Comm	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing $Right$
	Nouns : Countable and Uncountable, Pronouns : Personal, Relative and Others, Articles
	The Parts of Speech, The Prepositions, Clauses : Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification, Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building, Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking, Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter
Perso	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self acceptance and self growth
	FS23CB106: Animation
	Overview of animation
	Creating armature and refining armature
	Shape keys and drivers
	Set key frame
	Common animation tools
	Animate Gourdy
	FS23CB107: Visual effects and simulation
	Overview of visual effects in Blender
	Geometry Nodes magic
	Creating cloth

Hair simulation
Fluids
Creating fire
Add an effect
Camera setting and render animation
Render Layers & Render Passes

FS23CB108: Safety Practices in the Work Environment

Safety Signs & Colour at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs & Colour- Sign categories, Sign types.

First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.

Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.

Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.

Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.

Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipments, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?

Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.

Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.

FS23CB109: Show - Reel Development

Understanding the whole concept of blender and developing a sample show reel.

Counseling and Study Structure

				Total	Counsel		l Study S ours)	tructure
Sl. No.	Course Code	Title of the Course	Credit	Hours of Study	Face to Face Counsel ing	Self stud y	Practi cal	Assignm ents
1	FS23CB101	Introduction blender interface	3	90	12	33	18	27
2	FS23CB102	Modeling and Sculpting (Modeller 2022/ME/MESC/05210)	3	60	08	22	12	18
3	FS23CB103	Texturing and shading	3	60	08	22	12	18
4	FS23CB104	Rigging and lighting	3	60	08	22	12	18
5	FS23CB105	Communication & Personality Development	1	30	04	17	-	09
6	FS23CB106	Animation	2	60	08	22	12	18
7	FS23CB107	Visual effects and simulation	3	60	08	22	12	18
8	FS23CB108	Safety Practices in the Work Environment	1	30	04	11	06	09
9	FS23CB109	Show - Reel Development	1	30	-	-	30	-

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23CB101	Introduction to Blender Interface	1. Blender 3D for Beginners: The Complete Guide: The Complete Beginner's Guide to Getting Started with Navigating, Modeling, Animating, Texturing, Lighting, Compositing and Rendering within Blender; DananThilakanathan; Createspace Independent Pub, (Module referred from external web source)
2	FS23CB102	Modeling and Sculpting (Modeller 2022/ME/MESC/05210)	1. Blender Master Class – A Hands–On Guide to Modeling, Sculpting, Materials, and Rendering; Ben Simonds; No Starch Press; 1st edition (Module referred from external web source)
3	FS23CB103	Texturing and Shading	1. Blender 3D Incredible Models: A comprehensive guide to hard-surface models, including polygon modeling, texturing, and rendering: A comprehensive modeling, procedural texturing, and rendering; ArijanBelec; Packt Publishing Limited, (Module referred from external web source)
4	FS23CB104	Rigging and Lighting	1. Death to the Armatures: Constraint-Based Rigging in Blender; Christopher Kuhn; Kuhn Industries 2. Aesthetic 3D Lighting: History, Theory, and Application Paperback -8; Lee Lanier; f Routledge; 1st edition, (Module referred from external web source)
5	FS23CB105	Communication and Personality Development	S68-Effective Communication & Personality Development
6	FS23CB106	Animation	1. Blender 2.5 Character Animation Cookbook Kindle Edition; VirgilioVasconcelos ; Packt Publishing, (Module referred from external web source)
7	FS23CB107	Visual Effects and Simulation	1. Learn Blender Simulations the Right Way: Create attractive and realistic animations with Mantaflow, rigid and soft bodies, and Dynamic Paint; Stephen Pearson; Packt Publishing Limited, (Module referred from external web source)
8	FS23CB108	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9	FS23CB109	Practical - Project/ Intership: Show Reel Development Project	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; Daniel Johnson; f Kindle Edition February 1st 2021, (Module referred from external web source)

CERTIFICATE IN VIDEO EDITING AND MOTION GRAPHICS(FS23CVEMG)

Certificate in Video Editing and Motion Graphics(FS23CVEMG)

सर्टिफिकेटइनविडियो एडिटिंग(FS23CVEMG)

(A) Duration : 06 Months (D) Courses : 09

(अ) अवधि : 06 माह (द) कोर्सेस : 09

(B) Eligibility: 10th Pass (E) Credit: 20

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : **20**

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the Course	Credi t	Total Marks	Theory		Practical Marks		Assignment s		Was I a seed an Out a seed	
Code				Ma x	Mi n	Max	Min	Max	Min	Key Learning Outcomes	
FS23CVEMG10	Introduction to Adobe Premiere Pro Training	3	100	50	20	20	8	30	12	 Adobe Premiere Pro Interface Nonlinear editing Workflow Setting up a project Setting up a sequence Importing footage and assets Media Browser uses Importing images The Media Cache The Project Panel Working with Bins 	

										 Organizing Media with content Analysis Monitoring Footage Modifying clips
FS23CVEMG 102	Video Editing	3	100	50	20	20	8	30	12	 The rules of video editing The video editing essentials of Adobe Premiere Pro Program Monitor Control Controlling Resolution Using Markers Using sync Lock and track lock Finding timeline gaps Moving clips in a sequence Edit Point and Handles Adding Transitions into footage Fine tuning Transitions Adding Audio transitions

FS23CVEMG 103	Advanced Editing Techniques and Audio Editing Mixing (Digital Video Editor 2020/ME/NFDC03966)	3	100	50	20	20	8	30	12	 Four-point editing Retiming clips Replacing clips and footage Nesting Sequence Regular and Advanced Trimming Motion Effect Adjustment Clip position, size and rotation Key frame Interpolation Motion related effects Multi camera Process Multi camera Sequence Multiple camera switch Working with the Audio Interface Audio Characteristics Adjusting Audio volume and audio gain Adjusting audio levels in a sequence Using audio effects Applying effects in the audio mixer Key framing effect
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FS23CVEMG 104	Adobe After Effects Motion Graphics	2	100	50	20	20	8	30	12	 Create new compositions with appropriate settings. Apply advanced text animation techniques using text animators. Employ deinterlacing techniques for smoother playback. Apply rotoscoping techniques specifically for character animation. Understand keying fundamentals for background removal. Apply color correction techniques to achieve desired color balance, exposure, and contrast. Utilize advanced keying techniques using the Color Correction effect. Master motion tracking techniques for accurate tracking and attaching of graphics. Understand the 3D workspace
										techniques for accurate tracking and attaching of graphics.
										 in After Effects. Implement wire removal techniques to eliminate unwanted objects from

										Utilize Photoshop for sequence painting to enhance footage seamlessly.
										Implement displacement effects using displacement maps effectively.
										Design and implement particle effects using After Effects particles.
										Design and create dynamic motion graphics sequences for various media applications.
										Create professional pack shots and TV commercial animations with advanced animation and effects techniques.
FS23CVEMG 105	Communication & Personality Development	1	100	70	28	-	-	30	12	Basic communication skillsPersonality grooming
FS23CVEMG 106	Color Correction and Grading	3	100	50	20	20	8	30	12	 Color Balance Exposure Special color effects Look development Using alpha channels Alpha channel transparencies and color keying
										Mattes and opacity effect

FS23CVEMG 107	Composting Techniques Managing Projects	2	100	50	20	20	8	30	12	 Using alpha channels Alpha channel transparencies and color keying Mattes and opacity effect Exporting frames, clips and sequences Working with Adobe Media Encoder
FS23CVEMG 108	Safety Practices in the Work Environment	1	100	50	20	20	8	30	12	Familiarity with electrical safety, fire safety, first aid, food safety, primary health and basic hygiene
FS23CVEMG 109	Show- Reel Development	1	100	50	20	20	8	30	12	 Understanding the whole concept of Video editing and developing a sample show reel Knowledge of whole video editing pipeline

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
900	360

Detailed Syllabus

FS23CVEMG101: Introduction to Adobe Premiere Pro Training

	Adobe Premiere Pro Interface
	Nonlinear editing
	Workflow
	Setting up a project
	Setting up a sequence
	Importing footage and assets
	Media Browser uses
	Importing images
	The Media Cache
	The Project Panel
	Working with Bins
	Organizing Media with content Analysis
	Monitoring Footage
	Modifying clips
	FS23CVEMG 102: Video Editing
	The rules of video editing
	The video editing essentials of Adobe Premiere Pro
	Program Monitor Control
	Controlling Resolution
	Using Markers
	Using sync Lock and track lock
	Finding timeline gaps
	Moving clips in a sequence
	Edit Point and Handles
	Adding Transitions into footage
	Fine tuning Transitions
	Adding Audio transitions
FS	S23CVEMG 103: Advanced Editing Techniques and Audio Editing Mixing (Digital Video Editor 2020/ME/NFDC03966)
	Four-point editing
	Retiming clips
	Replacing clips and footage
	Nesting Sequence
П	Regular and Advanced Trimming

	Motion Effect Adjustment
	Clip position, size and rotation
	Keyframe Interpolation
	Motion related effects
	Multicamera Process
	Multicamera Sequence
	Multiple camera switch
	FS23CVEMG104: Motion graphics after effects
	Working with the Audio Interface
	New Compostion, Animation and Blending in Layers
	Text Layer, Animating Text
	Deinterlacing a footage, Masking, Rotoscopy-shape based
	Rotoscopy - character
	Keying Basics
	Color Correction
	Advanced Keying with CC
	Tracking and Stabilizing
	3D Interface and 3D Camera Tracking
	Wire Removal
	Sequence painting with Photoshop
	Displacement Map
	AFX particles
	Motion Graphics
	Motion Graphics
	Pack Shot-TVC
	FS23CVEMG105: Communication and Personality Development
Comn	nunication Skills
	English Language - Listening, Speech, Pronunciation, Reading, Spelling, Writing Right
	Nouns: Countable and Uncountable, Pronouns: Personal, Relative and Others, Articles
	The Parts of Speech, The Prepositions, Clauses: Coordinate, Subordinate, Relative Adverbs, Adjectives and Adjective Phrases, Verb
	The Model Auxiliaries, Adverb, Adverb Phrases Comparisons and Intensification Linking Devices, Subject Verb Agreement, Tenses, Common Errors, Word Building Vocabulary
	Developing Ability of Question and Answer, Body Language and Its Use in Speaking Group Discussions, Interview Skills
	Composition - Making a Technical Report, E-Mails and Text Messages Composing, Letter Writing, Paragraph Writing, E-mail Writing, Writing Resume, Writing a Cover Letter

Perso	nality Development
	Soft Skills Development, Body Language, Behavioral and Symptomatic Soft Skills, Etiquette and Manners, Positive Thinking, Motivation, Goal setting, Team building, Self Confidence, Leadership Skills, Time Management
	Introduction to Personality a) Basic of Personality b) Human growth and Behavior c) Theories in Personality d) Motivation
	Communication skills and Personality Development a) Intra personal communication and Body Language b) Inter personal Communication and Relationships c) Leadership Skills d) Team Building and public speaking
	Techniques in Personality development I a) Self confidence b) Mnemonics c) Goal setting d) Time Management and effective planning
	Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self hypnotism d) Self acceptance and self growth
	FS23CVEMG106: Color Correction and Grading
	Color Balance
	Exposure
	Special color effects
	Look development
	Using alpha channels
	Alpha channel transparencies and color keying
	Mattes and opacity effect
	FS23CVEMG107: Composting Techniques & Managing Projects
	Using alpha channels
	Alpha channel transparencies and color keying
	Mattes and opacity effect
	Exporting frames, clips and sequences

FS23CVEMG108: Safety Practices in the Work Environment

Working with Adobe Media Encoder

Safety Signs &Colour at Work: Safety Signs - Cause for accidents, Safe attitudes; Safety Signs &Colour- Sign categories, Sign types.

First Aid & Artificial Respiration: First Aid - Introduction, first aid and Its aim, Recovery position, Cardiopulmonary resuscitation (CPR), Wound, Shock, Convulsion, Extensive burns, Minor burns and scalds, Chemical burns, Electric shock, Fracture, first—aid box; Artificial Respiration - Respiration, Artificial respiration, Mouth to nose method of artificial respiration, Artificial respiration in case of cardiac arrest, Important points to note after giving artificial respiration to victims.

Safe Lifting and Carrying Techniques: Causes of injury, Types of injury and methods to prevent them, Points that make an objects/load difficult to carry, Preparation before lifting or shifting heavy loads, Correct body posture before beginning the lift in kinetic method of lifting, Manual lifting techniques using kinetic method, shifting of working tables, Shifting of electronic equipments/instruments, Basic steps of safe lifting and handling.

Fire and Fire Extinguishers: Fire, Fuel, Heat, Oxygen, Controlled and uncontrolled fire, Controlling and extinguishing fire, Fire extinguishers, Types of fire extinguisher - water-filled extinguishers, foam, extinguishers, dry powder extinguishers, carbon dioxide type extinguishers, halon extinguishers, General procedure to be adopted in the event of a fire.

Safe Working Measure: Electric shock, action and treatments; Hazard identification, risk assessment and risk control; Workstation layout and ergonomic guidelines.

Managing Health and Safety at Work: Introduction, General office safety, Types of office accidents, Office hazard control, Office environment, Hazards from electrical equipments, Office safety procedures, Emergency action plan.

Personal Hygiene: Introduction, how to maintain good hygiene, how to ensure food safety, Grooming, what are the consequences of not maintaining good hygiene?

Public and Home Safety: Introduction, Safety at home, Activities that have a potential for accidents, Things that are normally used at home and have a potential for accidents, Public safety, Prevention.

Common Food Borne Diseases and Infections: Introduction, The Farm – beginning of the food chain, Food processing-preventing food-borne illness and improving quality, Transport and storage—safeguarding food, Food safety and retailing, Food safety in the home, Food borne diseases.

FS23CVEMG109: Show - Reel Development

Understanding the whole concept of video editing and developing a sample show reel
Knowledge of whole video editing

Counseling and Study Structure

				a Total –			l Study S ours)	tructure
Sl. No.	Course Code	Title of the Course	Credi t	Hours of Study	Face to Face Counseli ng	Self stud y	Practi cal	Assignm ents
1	FS23CVEM G 101	Introduction to Adobe Premiere Pro Training	3	60	08	22	12	18
2	FS23CVEM G 102	Video Editing	3	60	08	22	12	18
3	FS23CVEM G 103	Advanced Editing Techniques and Audio Editing Mixing (Digital Video Editor 2020/ME/NFDC03966)	3	60	08	22	12	18
4	FS23CVEM G 104	Adobe after effects motion graphics	3	60	08	22	12	18
5	FS23CVEM G 105	Communication & Personality Development	1	30	04	17	-	09
6	FS23CVEM G 106	Color Correction and Grading	2	60	08	22	12	18
7	FS23CVEM G 107	Composting Techniques & Managing Projects	3	90	12	33	18	2
8	FS23CVEM G108	Safety Practices in the Work Environment	1	30	04	11	06	09
9	FS23CVEM G 109	Show- Reel Development	1	30	-	-	30	-

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23CVEMG101	Introduction to Adobe Premiere Pro Training	1. Editing Digital Video (Digital Video and Audio Series); Robert Goodman, Patrick McGrath; McGraw-Hill Education TAB; Pap/Cdr edition, (Module referred from external web source)
2	FS23CVEMG102	Video Editing	1. Editing Digital Video (Digital Video and Audio Series); Robert Goodman, Patrick McGrath; McGraw-Hill Education TAB; Pap/Cdr edition (Module referred from external web source)
3	FS23CVEMG103	Advanced Editing Techniques and Audio Editing Mixing (Digital Video Editor 2020/ME/NFDC03966)	1. Editing Digital Video (Digital Video and Audio Series) Robert Goodman, Patrick McGrath; McGraw-Hill Education TAB; Pap/Cdr edition (Module referred from external web source)
4	FS23CVEMG104	Adobe after effects motion graphics	1. Adobe After Effects Classroom in a Book (2023 release) Paperback – Import, 2 March 2023, Lisa Fridsma, Adobe Press; 1st edition (2 March 2023) (Module referred from external web source)
5	FS23CVEMG105	Communication and Personality Development	S68-Effective Communication & Personality Development
6	FS23CVEMG106	Color Correction and Grading	1. Editing Digital Video (Digital Video and Audio Series); Robert Goodman, Patrick McGrath; †McGraw-Hill Education TAB; Pap/Cdr edition, (Module referred from external web source)
7	FS23CVEMG107	Composting Techniques & Managing Projects	1. Editing Digital Video (Digital Video and Audio Series); Robert Goodman, Patrick McGrath; †McGraw-Hill Education TAB; Pap/Cdr edition), (Module referred from external web source)
8	FS23CVEMG108	Safety Practices in the Work Environment	S 69 : Safety Practices, Primary Health & Personal Hygiene
9	FS23CVEMG109	Practical - Project/ Intership: Show Reel Development Project	1. How to Build a Great Acting Showreel: Showreels from Scratch, Casting Types and Editing Your Demo Reel; DanielJohnson; f Kindle Edition (Module referred from external web source)

CERTIFICATE IN DRAWING AND DIGITAL ART (CDDA)

Certificate in drawing and digital art (CDDA)

सर्टिफिकेटइनड्रवाइंग एण्ड डिजिटलआर्ट(CDDA)

(A) Duration : 03 Months (D) Courses : 03

(अ) अवधि : 03 माह (द) कोर्सेस : 03

(B) Eligibility: 10th Pass (E) Credit: Non-credit

(ब) पात्रता : 10वीं पास (इ) क्रेडिट : नॉन-क्रेडिट

(C) Contents and Scheme of Examination

(स) पाठ्यक्रमविषय सूची एवंपरीक्षा योजना

Course	Title of the	Credi	Total	Theory		Practical Marks		Assignment s		Van Laaming Outagna
Code	Course	t	Marks	Ma x	Mi n	Max	Min	Max	Min	Key Learning Outcomes
FS23CDDA10 1	Principles of Design & Fundamentals of Drawing	Non- credit	100	20	8	50	20	30	12	 Understanding the meaning of Visual design. Learning to draw frames. Drawing cartoons with basic forms. Cartoon drawing. Learning human body proportions. Weight and balance of the figure. Drawing Stick figures & Drawing Stick figures in poses. Gesture drawings. Human Skeleton & Human skeleton in orthographic views. 1pt perspective concept, Definition; drawing objects in 1pt persp. Composing the objects for Drawing. Understand the light behaviors

										 with different materials. Pencil rendering, hatching and cross hatching. Creating light and shade. Monochromatic still life. Understanding Primary, Secondary and Tertiary colors. Creating color wheel of Primary, Secondary and Tertiary colors. Understanding the color tones and tints. Creating Color scale. Drawing human figure in Box form & in cylinder form Human muscle of Head, neck upper body and lower body Story and storyboard design Camera angles for framing
FS23CDDA10 2	Live Portrait & Caricature	Non- credit	100	20	8	50	20	30	12	 Technique for Drawing Caricatures Facial Features and How to Draw Them Face Elements in a Caricature Draw 3/4 Caricatures Modern Techniques to Draw Babies and Elderly People Live Samples after Photos to Learn More Use Bodies for a Proper Sense of Humor
FS23CDDA10 3	Introduction Computer Graphics	Non- credit	100	20	8	50	20	30	12	Introduction to Digital art and platform.

(Photoshop)			• User Interface of Adobe Photoshop.
			 Basics (setting, color, resizing, canvas, brush)
			 Selection tools (different selection techniques, quick mask, color range, background eraser)
			• Layer management.
			 Photo enhancement and corrections.
			 Retouching photos and images
			• Text effect in Photoshop.
			• Filters and effects.
			• Understanding the concept of Matte paint
			Matte painting
			Digital Painting
			• Coloring the character.
			• Coloring BG in Photoshop.
			• Coloring BG in Photoshop. (without any BG drawing)

Note: For a PASS - A Student would require to secure 40% for both Theory and Practical.

Grand Total	Pass
300	120

Detailed Syllabus

FS23CDDA101: Principles of Design & Fundamentals of Drawing

Understanding the meaning of Visual design. Learning to draw frames.
Drawing cartoons with basic forms.
Cartoon drawing.
Learning human body proportions.
Weight and balance of the figure.
Drawing Stick figures & Drawing Stick figures in poses.
Gesture drawings.
Human Skeleton & Human skeleton in orthographic views.
1pt perspective concept, Definition; drawing objects in 1pt persp.
Composing the objects for Drawing.
Understand the light behaviors with different materials.
Pencil rendering, hatching and cross hatching.
Creating light and shade.
Monochromatic still life.
Understanding Primary, Secondary and Tertiary colors.
Creating color wheel of Primary, Secondary and Tertiary colors.
Understanding the color tones and tints.
Creating Color scale.
Drawing human figure in Box form & in cylinder form
Human muscle of Head, neck upper body and lower body
Story and storyboard design
Camera angles for framing
FS23CDDA102: Live Portrait & Caricature
Technique for Drawing Caricatures
Facial Features and How to Draw Them
Face Elements in a Caricature
Draw 3/4 Caricatures
Modern Techniques to Draw Babies and Elderly People
Live Samples after Photos to Learn More
Use Bodies for a Proper Sense of Humor
FS23CDDA103: Introduction Computer Graphics (Photoshop)
Introduction to Digital art and platform.
User Interface of Adobe Photoshop.
Basics (setting, color, resizing, canvas, brush)

Selection tools (different selection techniques, quick mask, color range, background eraser)
Layer management.
Photo enhancement and corrections.
Retouching photos and images
Text effect in Photoshop.
Filters and effects.
Understanding the concept of Matte paint
Matte painting
Digital Painting
Coloring the character.
Coloring BG in Photoshop.
Coloring BG in Photoshop. (without any BG drawing)

Counseling and Study Structure

Sl. No.				Total	Counseling and Studies (hours)		_	-	
	Course Code	Title of the Course	Credit	Hours of Study	Face to Face Counse ling	Self study	Pract ical	ct Assignm ents	
1	FS23CDD A101	Principles of Design & Fundamentals of Drawing	Non- credit	60	08	34	18	-	
2	FS23CDD A102	Live Portrait & Caricature	Non- credit	60	08	34	18	-	
3	FS23CDD A103	Introduction Computer Graphics (Photoshop)	Non- credit	60	08	34	18	-	

Study Modules & Books Information

Sr. No	Course Code	Subject Name	Modules/Books to be used
1	FS23CDDA101	Principles of Design & Fundamentals of Drawing	1. General Principles of Design, Drawing, Importance of Safety: Ese 2021: Prelims Gseaby Made Easy; MADE EASY Editorial Board; Made Easy Publications; Fifth edition
			2. The Fundamentals of Drawing Still Life; Barrington Barber; Arcturus Publishing Ltd (Module referred from external web source)
2	FS23CDDA102	Live Portrait & Caricature	1. Caricatures (Collins Learn to Draw) (Collins Learn to Draw S.), Alex Hughes; Collins, (Module referred from external web source)
3	FS23CDDA103	Introduction Computer Graphics (Photoshop)	1. Adobe Photoshop 6: Introduction to Digital Images (Against the Clock Series) Spiral-bound – Import, Ellenn Behovian Against The Clock; Pearson; Pap/Cdr edition), (Module referred from external web source)

SHORT TERM CERTIFICATE PROGRAMS

S.No.	Program List	Duration	Eligibility
1	Certificate in Photo Editing with Adobe Photoshop (FS23CPEAP)	10 days	10th Pass
2	Certificate in Graphics Design with Adobe Illustrator (FS23CGDAI)	10 days	10th Pass
3	Certificate in Video Editing with Adobe Premiere Pro (FS23CVEAPP)	10 days	10th Pass
4	Certificate in Motion Graphics and Compositing with Adobe After Effect (FS23CMGCAAE)	10 days	10th Pass
5	Certificate in Photography (FS23CIP)	10 days	10th Pass
6	Certificate in Videography (FS23CIV)	10 days	10th Pass

Short terms programs are listed separately along with Academy Programs. The respective Academy can conduct relevant Short Term programs choosing from a list of short term courses. The exam scheme of each program is:

(1) Theory Paper : 70 Marks

(2) Assignment : Not Applicable for short term certificate programmes

(3) Practical/Project : 30 Marks

Thus, every short term program evaluation shall be done on the basis of 100 marks

Note: For Short Term Certificate Programs, only Certificates are provided by the University after conducting examination.