SILVER OAK UNIVERSITY

School of Technology, Design and Computer Application

Silver Oak College of Computer Application

Bachelor of Science Computer Science & Information Technology

Course Name: Principle of Digital Filmmaking

Course Code: 3040003284

Semester: 4th

Prerequisite: Basic understanding of digital media and filmmaking concepts.

Course Objective: To understand the process of Digital Film Making. To explore digital media and techniques for working on any project. To train students in achieving creative and technical competence.

Teaching Scheme:

Teaching Scheme				
L	T	P	Contact Hours	Credit
0	1	2	3	2

Content:

Unit No.	Course Contents	Teaching Hours	% Weightage
1	**Basics of Digital Film Making:** Concept of Digital Film Making, Industry Perspective, Film and Society, Pre-Production, Production, Post Production, Genres, and Audience. Transition from analog to digital formats. Advantages and challenges of digital filmmaking.	3	18
2	**Script Writing and Storyboards:** Research, Idea Formation, Writing a Story for Film Format, Storyboarding. Understanding screenwriting format (e.g., sluglines, action, dialogue). Differences between screenplays, teleplays, and stage scripts.	2	18
3	**Digital Video Cinematography:** Art of Cinematography, Types of Digital Cameras, Composition, Lighting, Types of Shots, Camera Movements, and Angles. Using visuals to convey emotions and narrative. Symbolism and metaphors in cinematography.	3	28
4	**Digital Video Production:** Production Crew, Casting, Indoor & Outdoor Shooting, Direction: Directing and working with the crew. **Digital Video Editing and Releasing:** Non-linear Editing Software, Editing Aesthetics, VFX, Compositing, Color Correction, Releasing Digital Video to Various Platforms.	6	36

Course Outcome:

Sr. No.	CO-Statement	Unit No
CO-1	Understand the fundamentals of digital filmmaking and its processes.	1
CO-2	Learn the techniques of scriptwriting and storyboard creation for digital films.	2
CO-3	Gain practical knowledge of cinematography, including camera usage, lighting, and shot composition.	3
CO-4	Develop skills in production techniques, directing, and editing digital videos.	4

Teaching & Learning Methodology: -

1. The course includes a laboratory, where students have an opportunity to build an appreciation for the concepts being taught in lectures.
2. Lectures with live practical example using Projector and Computer
3. Experiments shall be performed in the laboratory related to course contents

List of Experiments: **Total Hours: 28**

Sr. No.	Practical Name
1	Analyze 3 different film genres and their target audience.
2	Create a short video (1-2 minutes) depicting a social issue and its impact on society.
3	Develop a short story concept (100-200 words) and write a script in proper format.
4	Create a storyboard for a 30-second ad or short film.
5	Conduct research on a specific topic to develop an idea for a short documentary.
6	Demonstrate how to set up a digital camera for filming (ISO, white balance, shutter speed, etc.).
7	Experiment with 3-point lighting setup (key light, fill light, and backlight).
8	Capture 5 different types of shots (e.g., close-up, medium, wide, high angle, low angle).
9	Create a short sequence demonstrating at least 4 camera movements (e.g., pan, tilt, zoom, dolly).
10	Shoot a short scene (1-2 minutes) in an indoor and outdoor setting.
11	Direct a team to shoot a scene based on a provided script.
12	Edit a short video using software like Adobe Premiere Pro or DaVinci Resolve.
13	Add basic VFX (e.g., text overlays) and apply color grading to a raw video.
14	Export a completed video project for YouTube or social media platforms (e.g., Instagram, TikTok).

Major Equipment:

1. Latest PCs with related software
2. Projector
3. Digital Cameras
4. Tripods and Stabilizers
5. Lighting Equipment

Books Recommended:

1. By Jim Owens. Television Production
2. By Gerald Millerson. Lighting for Television and Film
3. By Maxie D. Collier. The IFILM Digital Video Filmmaker's Handbook
4. By Curtis Poole, Ellen Feldman The Digital Producer - Getting It Done with Computer-Based Tools

List of e-Learning Resources:

1. https://www.udemy.com/
2. https://www.coursera.org/
3. https://www.adobe.com/learn/premiere-pro
4. https://www.amazon.com/Filmmakers-Handbook-Comprehensive-Digital-Filmmaking/dp/0452297281

CO-PO-PSO Matrix:

Co. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1	3	2	1		2	1	1		2			3	2	2
CO-2	2		3		3			2			2	2	3	2
CO-3	2	2	3	3		2			3	2			3	3
CO-4	1	2	3	3	3	3	2	3	3		2	3	3	3