

Photography & Videography

Skill Based Elective I Photography

(Semester – III)

Unit I

Origin & Development of Photo Camera – Various film formats – digital camera – CCD & CMOS sensors – memory chips – Image downloading.

Unit II

Functions & Operations of a digital camera – f-stop value – ASA/ISO – shutter speed – color temperature – white balance - lenses - focal length – types of lenses - depth of field.

Unit III

Modes of Photography: Program, Shutter priority, Aperture priority, Manual, Portrait, Landscape, Sports, Aerial and Time-laps photography.

Unit IV

Composition of photographs – available light photography – flash photography.

Unit V

Basic photo sizes – varieties of color Skill Based Elective knowledge of: color labs – laser prints – flex printing – album making – photo color correction and depth variations.

References

Amateur Photography, K.A. Stayanarayan, Vikas Book depot Bangalore- 560 009, 2003
Photography, a DO it yourself Book, O.P. Sharma, Hindi Pocket book Pvt. Ltd., G.T.Road, New Delhi, 2005

Skill Based Elective II

(Semester – IV)

Image Processing

Unit I

Introduction to Raster Graphics – Color Profiles – Pixels – Resolution – Menus – Sub Menus

Unit II

Standard File Formats & Sizes-downloading files from Digital Cameras & Mobile Phones, DVD Movies – Image Scanning Techniques – Flat Bed & Drum Scan

Unit III

Image Editing: Basic Color Correction (Levels & Curves), Retouching, Restoring Old Images, B/W to Color Image, Working with Backgrounds

Unit IV

Working with Layers – Layers Styles – Filters & its applications

Unit V

Automation – Contact Sheet and Action settings

References

Adobe Creative Team, Pearson Technology Group, USA, Photoshop 7 Classroom in a Book,2004
Deke Mcclelland, Willey Publishing. Inc., Photoshop 7 Bible, 2005

Skill Based Elective III

(Semester – V)

Videography I

Unit I

Basic design of a video camera – development and application – various video formats

Unit II

Parts & function of a digital video camera: focus - iris – zoom – white balance – filters – recorders/capturing/storage units

Unit III

Camera support system – Camera movements – Pan, Tilt, Pedestal, Dolly, Trolley, Crane

Unit IV

Indoor Shooting with lights and Outdoor shooting – setting White Balance-Filters and their uses lighting systems

Unit V

Sound recording with inbuilt & external microphones

References

Photography & Videography, Electron, Balaji Publishers 103, Fine Craft road Chennai, 2000
Modern Photography & Videography Course A.H. Hashmi , Manoj Publications, Delhi, 2003

Skill Based Elective IV

(Semester – V)

Non – Linear Editing

Unit I

Overview of computer video editing-Premiere Project Settings and Preferences-Understanding main Premiere editing windows (Project, Monitor, Timeline)

Unit II

Introduction to editing tools-Setting in and out points-Adding audio tracks-Using ripple edit to synchronize audio

Unit III

Introduction to transitions - Applying slow and fast motion effects

Unit IV

Razor edit cuts - Fade to black - Transparency layers in Premiere - Adding a super-imposed graphic logo with transparency- Animation paths - Camera blur filter - Exporting to Web, CD-ROM

Unit V

Creating a simple title - Creating a simple graphic - Creating a rolling title - Adding titles to a Premiere project - Adding tracks to the timeline - Adding titles to the timeline - Changing the speed of a title - Updating a title

References

Robert M. Goodman & Patrick McGrath, Editing Digital Video : The Complete Creative and Technical Guide, 2003

Adobe Creative Team, Pearson Technology Group, USA, Premier 6.5 Classroom in a Book,2004

Skill Based Elective V
Videography - II

(Semester - VI)

Unit I

Various types of pins, cables and connectors – Video capture – capture card – storing devices – compressed & uncompressed file formats

Unit II

Digital video editing – transitions

Unit III

Audio Dub – CD & DVD Conversion

Unit IV

Special Effects – Chroma key and video titling

Unit V

Maintenance and precaution for camera and lighting equipments

References

Robert M. Goodman & Patrick McGrath, Editing Digital Video : The Complete Creative and Technical Guide, 2003
Adobe Creative Team, Pearson Technology Group, USA, Premier 6.5 Classroom in a Book,2004

**Skill Based Elective VI
Audio Special Effects**

(Semester – VI)

Unit I

Overview of computer audio effects – Sound Forge Settings and Preferences-Understanding

Unit II

Introduction to tools-Setting in and out points-Adding audio tracks-Using ripple edit to synchronize audio

Unit III

Introduction to Audio Effects – Pitching - Tempo

Unit IV

Special Effects – Fade in – Fade out – Flanger – Surround Expansion – Surround Reverb – Voice Modulation – Chorus – Distortion

Unit V

Multi Track – Import - Export Audio – Enhancement

References

Robert M. Goodman & Patrick McGrath, Editing Digital Audio : The Complete Creative and Technical Guide, 2000