

VNT-BT007Photography.

Course pre-requisites: - Digital Camera [DSLR or Mirrorless] Tripod, HDD, Flash Memory Cards, Memory Card reader LAPTOP Optional.

Course Objectives:

To develop the skill & knowledge of Digital Photography. Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in Photography studios, edit set-up, graphic arts industry and other audio-visual sectors

Course Outcomes:

At the completion of this course students should be able to –

- Define the process, uses, principles and advantages of digital photograph
- Develop the concept of the basics of digital imaging, Raster & Vector Graphics, Resolution, Pixel depth, Aspect Ratio, Dynamic Range, File Formats, File Size, Image Compression etc.
- Visualize the concept of digital platform and various methods of image capture.
- Develop the method of basic image editing techniques.
- Introduce various methods of post-production and retouching techniques.
- Develop the concept of digital output and producing the final product.

Module No	Details	No of Hrs
1	1.1 Understanding FILM and DIGITAL photography 1.2 Learning about the digital revolution. 1.3 Advantages and disadvantages of digital photography over film photography 1.4 Computers as photographic tools 1.5 How photos are used today.	04
2	2.1 Digital image method of storing and processing digital image: Raster and Vector method 2.2 Representation of digital image: Resolution – Pixel Depth – Pixel Aspect Ratio – Dynamic Colour Range – File Size – Colour Models – Image Compression – File Formats – Calculating image resolution for outputs.	05
3	3.1 Hardware and System Software 3.2 Windows/ APPLE MAC Operating System 3.3 Image transportation through PENDRIVE, CD, HDD and CLOUD [Internet.]	05
4	4.1 Digital Image formation – Image Sensors – Different Capturing Method: Digital camera – Scanner – Frame Grabber 4.2 DIGITAL CAMERA: Understanding how digital cameras work – Digital camera types: Floppy Disc type, Flash Card type, Hard Disc type – Overview of current digital cameras and MIRRORLESS.	04
5	5.1 SCANNING: Scanners as input devices- Working of a Scanner– Scanning procedure – Scanning resolution. 5.2 IMAGE EDITING: Image editing through image editing softwares like Adobe Photoshop – Adjustment of Brightness, Contrast, Tonal and Colour Values – Experimenting with Level and Curve.	04
6	6.1 Image size – Resolution – Selection tools and techniques – History – Retouching tools – Layers – Incorporation of text into picture. 6.2 Digital Manipulation: Applying selective effects to images and filters with masks and different digital darkroom effects.	04
7	7.1 Placing photos in other documents – Using photos on the web. 7.2 Printers as output devices – Different types of Print, Proofing, Photo quality printing. 7.3 How can a digital image be printed?	04
TOTAL		30

Reference Books: -

- 1) Digital Photography-A hands on Introduction by Delmer Publishers
- 2) Digital for photographers by Focal Press
- 3) Understanding Digital Cameras by Focal Press
- 4) Teach Yourself Digital Photography in 14 Day by Techmedia 1997
- 5) Adobe Photoshop CC 2019 Bible by Willey India