



व्यावसायिक और तकनीकी शिक्षा के लिए राष्ट्रीय केंद्र

NATIONAL CENTRE FOR VOCATIONAL AND TECHNICAL EDUCATION

In associated with NCVTE Council for Vocational and Technical Education,
An Autonomous, NCT NEW DELHI, Incorporated by GOVERNMENT OF INDIA.
Collaboration with under a scheme of Ministry of Human Resource Development,
GOVERNMENT OF INDIA.

MEDIA EDUCATION

SYLLABUS

NCVTE DIGITAL VIDEOGRAPHY - VCE003

COURSE DURATION: SIX MONTH

SUBJECTS & PAPERS

S.No	SUBJECT CODE	SUBJECTS
1	VCE003-01	VIDEOGRAPHY THEORY
2	VCE003-02	VIDEO PRODUCTION IN SHORT FILM
3	VCE003-03	PRACTICAL



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VIDEOGRAPHY THEORY -VCE003-01

Unit I: Introduction to TV technology

Picture formation-T.V Scanning : Horizontal & Vertical-Frame & field rate-Resolution video bandwidth, sync. blanking signals, colour burst, sensitivity, linearity etc.-Television standards: NTSC, PAL, SECAM.

Unit II: Principle of Video Camera

Primary & secondary colours-Photo conduction, photo voltaic, photo emissive effect-Working principle of video camera-CCD cameras: Three CCD, single CCD colour camera-Variou sizes of pickup devices

Unit III: Components and Controls of Video Camera.

Parts of a video camera-Different controls on video camera-Power switch, preheat, genlock, white balance, gain, iris, pedestal etc.-Zoom control: servo, manual, remote, zoom extenders-Focus control : auto, manual , remote, back focus, macro focus.-Camera view finders (B/W and colour). Its indicators and control.

Unit IV: Balancing of Colours of a video camera.

Colour temperature-White balance: Process and need.-Camera filters-Camera control unit (CCU)-Waveform monitor for output level of video-Vectorscope

Unit V: Video camera lenses.

Perspective-Types and use-normal lens, telephoto lens, wide-angle lens.
Zoom lens-Tripod, types of tripod heads, dolly, trolley & other accessories-Different types of camera angles and use-Camera movements – types & use - Different Types of Television Cameras-NG camera - EFP camera - Studio cameras - Special cameras: underwater camera, Endoscopic camera, Aerial photography camera, remote control camera, high-speed video cameras - Types of microphones used on video camera - Types of audio & video connectors.

Text Book:

1. Peter ward “Studio and outside broadcast Camera”
2. BernardWilkie “Creating special effects for TV & Video”

References:

1. Roy Thomson “Grammar of the shot”
2. Der Lyur & Graham “Basics of Video Production”



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VIDEO PRODUCTION IN SHORT FILM – VCE003-02

Topics include:

- Starting a film project
- Finding financing
- Dealing with legal issues
- Producing shorts vs. feature films
- Learning from failure.