

A Course (Sept 80 - Dec 80, 13 weeks)

Tests: Weekly, Pass Mark = 60%

A Course Part 2 – Television

Camera Mountings: Pan & Tilt Heads, Vinten (HP, Fulmar, Tern, Portaped, Low Angle Dolly, Heron, MOLE, NIKE), Tripods, Static Éclair, Mobile Éclair, Gully, Falcon, Hoists, Safety, Locking Pins, Pneumatics, Balancing

Camera Operations: Tracking, Crabbing, Elevation, Depression, Panning, Tilting, Framing, Shot Types, Lens, Composition (Mass, Tone, Lines, Balance, Looking Room), Perspective, Eyeline, Control (Iris, Black level, DC Clamp, Gain, Tarif, Gamma,)

Studio Vision Chain: Camera, CCU, Coder, DA, Vision Mixer, Monitoring, External Viewfinder, Matrices, Distributions, Pulse Chains

TV Colour Coding: Colour Difference Signals, PAL, Reference Burst, Quadrature Modulation

Synchronisation: Sync Timing, Genlock, Slavelock, Superlock, Natlock, Synchronisers, D.P.S., Tolerances, SPGs, Pulses

Video Test Waveforms & Measurements: Noise, Distortion, Pulse & Bar, I.T.S., Colour Bars, Sawtooth, Staircase, Testcard

OBS: Vehicles (Production, Support, Generators, Radio Links, Staffing

Vision Mixing: Principles, Synchronism, Cut, Mix, Wipe, Stab Amps, Keying (Luminance, CSO, External, Clip Level), Effects,

Studio Sound Chain: Wallboxes, Jackfields, Cables, Star Quad, Perspective, Sound Desks, SCR, Grams, Tape, Insert Jackfield, Monitoring, Booms, Mic Types

Optics: Mirrors, Plane Mirrors, Cameras & Back Projection, Spherical Mirrors, Convex, Concave, Lenses, Spotlights, Refraction, Displacement, Deviation, Ray Diagrams, Combination Lenses, Telephoto, Reverse Telephoto, Angle Of View, Focal Length, Exposure, Depth Of Field, Zoom Lens

Light: electromagnetic Spectrum, Luminance, Quality, Lamp Types and Uses, Contrast Ratio, Colour Temperature, Simple Lighting Plots

Camera Tubes: Plumbicon, Scanning, Photoconductive Lag, Highlight Beam Lag, Dark Currents, Spectral Response, Resolution

Camera Channel: Head Amplifier, Cable Correction, Gain Control, Aperture Correction, Black Level Clamp, Blanking, Black/White Clippers, Gamma Correction,

Timing, Colour Matrixing, Flare Correction, Pulse Cancellation, Scanning, Bias Lighting, Highlight Beam Lag suppression (ACT, HOP), Shading Correction, Line Up Procedure, Test Charts,

Film: Use in TV, Pros and Cons, Kit, Grading, Film Formats, Speeds, Reversal, Transfer Suite, Line Up, Disc Transfer, Sound Formats, Pilot Tone

Portable Sound Equipment: Tape Recorders, Mics, Booms, Shielding, Slating, Clapperboard, Wild Tracks, Pilot Tone

Videotape: Principles, Quadruplex, Helical Scan, Timebase Correction, Editing,

Practicals: Comms, Oscilloscope, Tape & Grams, Boom Operations, Film Transfer Operations, Synchronising, Film Editing, track Laying, Film Dubbing, Telecine Operations, Lighting, Camera Operations, Camera Line Up, Vision Bays, Monitor Line Up, Tape Editing, Videotape Operations