

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
|---------------------------------------|------------------|--|----------|----------------------|---------|-------------------------------|
| 4 | 23.12.13 | Tv-transmitter & Receiver Synchronization | 9 | Class Room | | |
| 3 | 24.12.13 | Geometric form & Aspect ratio | 11 | 11 | | |
| 2 | 26.12.13 | Image continuity & Interlaced scanning | 11 | 11 | | |
| 4 | 02.1.14 | Picture resolution & composite video signal | 11 | 11 | | |
| 3 | 03.1.14 | Horizontal & vertical syncs & Scanning Sequence | 11 | 11 | | |
| 1 | 06.1.14 | colour signal generation & encoding | 11 | 11 | | |
| 4 | 07.1.14 | perception of brightness & colour | 11 | 11 | | |
| 3 | 08.1.14 | colour additive mixing & video signals for colours | 11 | 11 | | |
| 2 | 09.1.14 | Luminance signal & colour difference signals | 11 | 11 | | |
| 1 | 10.1.14 | encoding of colour difference signals | 11 | 11 | | |
| 1 | 17.1.14 | formation of chrominance signal & PAL encoder | 11 | 11 | | |
| TV SIGNAL TRANSMISSION & PROPAGATION. | | | 11 | classroom | | |
| 1 | 20.1.14 | Picture signal transmission | 11 | 11 | | |
| 4 | 21.1.14 | +ve and -ve modulation. | 11 | 11 | | |
| 3 | 22.1.14 | VSB transmission & sound signal transmission | 11 | 11 | | |
| 2 | 23.1.14 | std channel B-W & T-V transmitter | 11 | 11 | | |
| 1 | 24.1.14 | TV Signal Propagation Interference. | 11 | 11 | | |
| 1 | 27.1.14 | TV broadcast channels | 11 | 11 | | |
| 4 | 28.1.14 | TV transmission - Antennas. | 11 | 11 | | |

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| 3 | 29.1.14 | Video-camera tube | <u>III</u> | Class room | | |
| 2 | 30.1.14 | - continuation - | | | | |
| 1 | 31.1.14 | Silicon Diode Array vidicon | | | | |
| 1 | 3.2.14 | & its character -stcs | | | | |
| 4 | 4.2.14 | Monochrome TV camera tube | | | | |
| 3 | 5.2.14 | colour camera tube | | | | |
| 2 | 6.2.14 | CCD - storage sensor. | | | | |
| → PICTURE TUBES → | | | <u>IV</u> | class room | | |
| 1 | 7.2.14 | Monochrome picture tube | | | | |
| 1 | 10.2.14 | Electrostatic focusing & Beam deflection | | | | |
| 4 | 11.2.14 | picture tube char- acteristics & specifi- cations. | | | | |
| 3 | 12.2.14 | colour TV picture tubes | | | | |
| 2 | 13.2.14 | American 525 line B/W TV system | | | | |
| 1 | 14.2.14 | NTSC - colour system | | | | |
| 1 | 17.2.14 | PAL - colour system & TV stds. | | | | |
| MONOCHROME TV RECEIVER. | | | <u>V</u> | class room | | |
| 4 | 18.2.14 | Monochrome TV Receiver block diagram | | | | |
| 3 | 19.2.14 | RF Tuner, IF Subsystem | | | | |
| 2 | 20.2.14 | Video Amplifier & Sound Section. | | | | |
| 1 | 21.2.14 | Sync Separation & processing. | | | | |

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| 1 | 24-2-14 | deflection ckt's & Scanning ckt's. | 3 | classroom | | |
| 4 | 25-2-14 | PAL: D colour Receiver | 11 | 4 | | |
| 3 | 26-2-14 | Electron tuners, IF-Sub System | 4 | 4 | | |
| 2 | 28-2-14 | Y-Signal channel chroma decoder | 4 | 4 | | |
| 1 | 03-3-14 | Separation of U&V colour phases | 4 | 4 | | |
| 4 | 04-3-14 | Synchronous demodulators | 4 | 4 | | |
| 3 | 05-3-14 | Sub carrier generator & Raster ckt's. | 4 | 4 | | |
| VISION IF SUB-SYSTEM. | | | VI | classroom | | |
| 2 | 06-3-14 | Automatic Gain control, noise cancellor | 4 | 4 | | |
| 1 | 07-3-14 | Video & Inter carriers | 4 | 4 | | |
| 1 | 10-3-14 | Sound signal detection | 4 | 4 | | |
| 4 | 11-3-14 | Vision IF Subsystem | 4 | 4 | | |
| 3 | 12-3-14 | colour Rx IF Sub system | 4 | 4 | | |
| 2 | 13-3-14 | Rx Sound System: FM detecting, FM sound detector | 4 | 4 | | |
| 1 | 14-3-14 | TV-RX-tuners: Tuner operation | 4 | 4 | | |
| 4 | 18-3-14 | VHF&UHF tuners | 4 | 4 | | |
| 3 | 19-3-14 | digital tuning techniques. | 4 | 4 | | |
| 2 | 20-3-14 | Remote control of Rx functions. | 4 | 4 | | |

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| | | COLOUR SIGNAL DECODING. | <u>VII</u> | <i>class room</i> | | |
| 1 | 21.3.14 | PAL-D- decoder, Chroma signal Amplifier | 11 | " | | |
| 4 | 24.3.14 | Separation of U&V signal, colour burst sep | 11 | " | | |
| 3 | 25.3.14 | Burst-phase-discriminator | 11 | " | | |
| 2 | 26.3.14 | ACC-Amplifier, Reference oscillator | 11 | " | | |
| 1 | 27.3.14 | Ident & colour killer ckt | 11 | " | | |
| 4 | 28.3.14 | RC-phase shift and 180° PAL-Switch ckt | 11 | " | | |
| 3 | 01.4.14 | U&V demodulators | 11 | " | | |
| 2 | 02.4.14 | PAL-Switch ckt | 11 | " | | |
| 1 | 03.4.14 | colour signal mixing | 11 | " | | |
| | | SYNCHRONOUS SEPERATION | <u>VIII</u> | <i>class room</i> | | |
| 1 | 04.4.14 | K-noise in Sync pulses | 11 | " | | |
| 4 | 07.4.14 | Separation of frame & line sync pulses | 11 | " | | |
| 3 | 08.4.14 | AFC, single ended AFC ckt | 11 | " | | |
| 2 | 09.4.14 | deflection oscillator | 11 | " | | |
| 1 | 10.4.14 | deflection drive ICS. | 11 | " | | |
| 4 | 11.4.14 | Receiver Antennas | 11 | " | | |
| 3 | 15.4.14 | Digital TV. Digital Satellite TV. | 11 | " | | |
| 2 | 16.4.14 | DTH- satellite TV | 11 | " | | |
| 1 | 17.4.14 | Digital TV Rx, & Digital Terrestrial TV | 11 | " | | |