

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
|---------------------------------------|------------------|---|----------|----------------------|---------|-------------------------------|
| 4 | 23.12.13 | Tv-transmitter & Receiver Synchronisation | 9 | classroom | | |
| 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 sync & 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 colour | 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 - | II | II | | |
| 1 | 3/1.14 | Silicon Diode Array Videocon | II | II | | |
| 1 | 3.2.14 | 2 1/2 character - stds | II | II | | |
| 4 | 4.2.14 | Monochrome TV camera tube | II | II | | |
| 3 | 5.2.14 | colour camera tube | II | II | | |
| 2 | 6.2.14 | CCD - Storage sensors | II | II | | |
| → PICTURE TUBES → | | | <u>IV</u> | Class room | | |
| 1 | 7.2.14 | Monochrome picture tube | II | II | | |
| 1 | 10.2.14 | Electrostatic focusing & Beam deflection | I | II | | |
| 4 | 11.2.14 | picture tube characteristics & specifications. | II | II | | |
| 3 | 12.2.14 | colour TV picture tubes | II | II | | |
| 2 | 13.2.14 | American 525 line B/W TV system | II | II | | |
| 1 | 14.2.14 | NTSC - colour system | II | II | | |
| 1 | 17.2.14 | PAL - colour system & TV stds. | II | II | | |
| MONOCHROME TV RECEIVER. | | | <u>V</u> | Class Room | | |
| 4 | 18.2.14 | Monochrome TV Receiver block diagram | II | II | | |
| 3 | 19.2.14 | RF Tuner, IF Subsystem | II | II | | |
| 2 | 20.2.14 | Video Amplifier & Sound Section | II | II | | |
| 1 | 21.2.14 | Sync Separation & processing. | II | II | | |

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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 | 9 | | |
| 3 | 26.2.14 | Electron tuners, IF-Sub System | 9 | 11 | | |
| 2 | 28.2.14 | Y-Signal channel/ chroma decoder | 11 | 11 | | |
| 1 | 03.3.14 | Separation of U&V colour phases | 11 | 11 | | |
| 4 | 04.3.14 | Synchronous demodulators | 11 | 11 | | |
| 3 | 05.3.14 | Sub carrier generator & Raster ckt's. | 11 | 11 | | |
| VISION IF SUB-SYSTEM. | | | VI | classroom | | |
| 2 | 06.3.14 | Automatic Gain control, noise cancellation | 11 | 9 | | |
| 1 | 07.3.14 | Video & Inter carriers | 11 | 11 | | |
| 1 | 10.3.14 | Sound signal detection | 11 | 11 | | |
| 4 | 11.3.14 | Vision IF Subsystem | 11 | 11 | | |
| 3 | 12.3.14 | colour Rx IF Sub system | 11 | 11 | | |
| 2 | 13.3.14 | Rx Sound System: FM detecting, FM sound detector | 11 | 11 | | |
| 1 | 14.3.14 | TV-RX-tuners: Tuner operation | 11 | 11 | | |
| 4 | 18.3.14 | VHF&UHF tuners | 11 | 11 | | |
| 3 | 19.3.14 | digital tuning techniques. | 11 | 11 | | |
| 2 | 20.3.14 | Remote control of Rx functions. | 11 | 11 | | |

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| | | COLOUR SIGNAL DECODING | VII | classroom | | |
| 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 | Indent & 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 | VIII | classroom | | |
| 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 | DT+1- satellite TV | 11 | " | | |
| 1 | 17.4.14 | Digital TV Rx, & Digital Terrestrial TV | 11 | " | | |