

TV Broadcasting Engineering lecture schedule

- Week 1 Introduction to TV broadcasting. The recent trend of broadcasting in Japan.
- Week 2 Scanning and Synchronization. Nipkow disk.
Comparison between Sequential scanning and Interlaced scanning.
- Week 3 Waveform of synchronizing signals and their relationship to the TV pictures..
- Week 4 Method to calculate the maximum frequency contained in the TV pictures.
- Week 5 Resolution test chart. Measurement of the test chart resolution on the TV screen using a TV receiver. Room P615 will be used.
- Week 6 Basic of colors.
- Week 7 CIE standard colorimetric system.
- Week 8 NTSC color system and its characteristics.
- Week 9 Compatibility of the NTSC system. Frequency interleaving between Color TV and Monochromatic TV.
- Week 10 Color specification based on color-difference signals.
- Week 11 Color bar signals and levels of composite video signals. Room p615 will be used.
- Week 12 Introduction to HDTV.
- Week 13 Introduction to Satellite Broadcasting
- Week 14 Introduction to the transmission system of Digital Broadcasting in Japan.
- Week 15 Finals.