

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Electronics)
Semester: V
Syllabus with effect from: June - 2013

Paper Code: US05CELE06	Total Credit: 3
Title of Paper: Analog Communication	

Unit	Description in detail	Weightage (%)
I	Classification of Radio Receivers, Salient Features of broadcast Receivers, Basic Function of AM Receiver, Principle & Block diagram of super-hetrodyne Receiver.	25%
II	RF Amplifier, Frequency Mixer & converters, IF Amplifier, Detector stage, Automatic gain control, Automatic Frequency control.	25%
III	Introduction, Aspect Ratio, Rectangular Switching, Interlaced scanning, Composite video signals, TV camera Tubes, Image orthicon, Vidicon.	25%
IV	Block diagram and Function of Broadcast TV Receiver, RF Tuners, Functions of RF Tuners, Block Diagram of RF Tuner, RF Tuner circuits, Video IF Amplifier, Interstage coupling methods, Transistor video IF Amplifier Circuit.	25%

Basic Text & Reference Books:

- Radio Engineering (Applied Electronics vol-II) By : G.K.Mithal
- Basic Radio & Television By : S.P.Sharma

