

T.Y. B.Sc. ELECTRONICS June 2013 Syllabus Revision

There are errors due to typing in the syllabus. Therefore from June 2013 this year itself following modifications in T.Y. Electronics Syllabus Sem – V & Sem-VI are implemented.

SEM-V

Paper ELE-301

UNIT -1

Opamp Theory:

Article 4.2 is removed.

Article 2.4.5 to 2.4.8 is added.

UNIT -2

Opamp Applications:

Articles 4.8,4.9,4.10,4.11 & 4.12 are removed.

Articles 4.2,4.3,4.4,4.5,4.6 are added.

SEM-V

Paper ELE-302

Digital Electronics and Microprocessor:

UNIT-1

Ch. 10 Counters

Article 10.6 Presettable Counters is added

SEM-V

Paper ELE-303

UNIT-1

Electronic Voltmeter:

Article 4.21 & 4.22 are removed.

SEM-V

Paper ELE-305

Consumer Electronics (Subject Elective Course)

(2 Credit: 3 hours/week)

All 4 Units are removed.

Following 3 Units Syllabus is added.

Unit-I

MICROPHONES:

Introduction, Requirement, Quality of Microphones, Classification, Moving Coil, Microphone, Ribbon Microphone, Condenser Microphones, Crystal Microphones, Carbon Microphones, Electret Microphones, Special Microphones.

Article No. 5.1 to 5.11

Book: Consumer Electronics by B.R.Gupta and V.Singhal, 5th Edition,

Publisher: S. Katariya & Sons.

LOUDSPEAKER:

Introduction, Features of Loudspeaker, Moving Coil Loudspeaker, Electro-dynamic Loudspeaker, Horn Loudspeaker, Loudspeaker for High Fidelity Systems, Baffles and Enclosure, Coloum Loudspeaker, Woofers and Tweeters, Cross-over Circuits.

Article No. 6.1 to 6.10

Book: Consumer Electronics by B.R.Gupta and V.Singhal, 5th Edition,
Publisher: S. Katariya & Sons.

Unit-II

MONOCROME TELEVISION:

Elements of Television System, The scanning Process, Scanning Method and Aspect Ratio, Persistence of Vision and Flicker, Inter Lacing of Scanning Lines, The Video Signal, Control Pulses, Composite Video Signal, The Highest Video Frequency, The carrier Frequency, Side Band Frequencies, Monochrome TV Camera, Camera Tube Characteristics, Vidicon Camera Tube. Monochrome Picture Tube, Television as a System.

Chapter-30 Book: Consumer Electronics by S.P.Bali, Publication: Pearson.

Unit-III

VIDEO DISC RECORDING AND PLAYBACK:

Optical Recording Medium, Tellurium-Selenium Alloys, Organic Compounds, Magneto-optical Materials, Evolution of Video Disc, Video Disc, Video Disc Mastering and Replication, Video Disc Formats, LASER Vision, Selectavision, Video High Density, Video Disc System Comparison, Recording Systey, Playback System, Solid State LASER, Radial and Tangentail Tracking, Optical Memory Disc.

Chapter-34 Book: Consumer Electronics by S.P.Bali, Publication: Pearson.

SEM-VI

Paper ELE-307

UNIT -1

Non-linear Applications of OPAMP:

Article 4.2 & 4.5 are removed.

Article 4.12, 5.2 and 5.3 are added.
