

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Electronics)
Semester: VI
Syllabus with Effect from: November-2013

Paper Code: US06CELE04	Total Credit: 3
Title of Paper: Instrumentation	

Unit	Description in detail	Weightage (%)
I	Amplified DC meter, Chopper Stabilized amplifier, Ac voltmeters using rectifier, True RMS responding voltmeters, Electronics Multimeter- Basic circuits.	25%
II	Differential Voltmeter, Digital Voltmeters- Ramp type DVM, Successive approximations DVM, Q-Meter, Measuring method	25%
III	Recorder- Introduction, Strip chart Recorder, Galvanometer type Recorder, Potentiometric Recorders, Circular chart Recorder, Digital X-Y plotters, Magnetic Recorders, Frequency modulation Recording.	25%
IV	Computer controlled Test Systems, Testing and Audio amplifier, Testing an Radio Receiver, Instrument used in computer controlled instrumentation.	25%

Basic Text & Reference Books:

- Modern Electronics Instrumentation and Measurements Technique By : A.D.Helfrick and W.D.Cooper
- Instrumentation Devices and Systems By : C.S.Ragan Sharma and V.S.V.Mani
- Electronic Instrumentation By: H.S.Kalsi

