SARDAR PATEL UNIVERSITY

Programme: B.Sc (Electronics)

Semester: V

Syllabus with effect from: June - 2013

Paper Code: US05CELE04	Total Credit: 3
Title of Paper: Instrumentation	Total Credit: 3

Unit	Description in detail	Weightage (%)
I	Wheastone Bridge, Kelvin Bridge, AC Bridge and their applications,	25%
	Maxwell Bridge	25 70
II	Hay Bridge, Schering Bridge, Unbalance conditions, Wein Bridge.	25%
III	Classification of Transducers, Selection of Transducers, Capacitive	
	Transducers, Inductive Transducer, Linear Variable Differential	25%
	Transformer.	
IV	Photoelectric Transducer, Piezo electric Transducer, Strain Gauges,	
	Displacement Transducer, Thermocouple, Thermistor characteristics and	25%
	Applications.	

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

