

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Physics)
Semester: III
Syllabus with effect from: June-2012

Paper Code: US03CPHY03	Total Credit: 2
Title Of Paper: Physics Practical	

	Description in detail	
List Of Practical's		
1	Kater's reversible pendulum (fixed & variable distance between knife edges)	
2	Cardinal points of two lens system	
3	Dispersive curve and power of a prism.	
4	Resolving power of a telescope	
5	Biprism	
6	Hybrid parameters 'h' of a BJT	
7	Frequency response of a RC coupled amplifier (without feedback)	
8	Thermal conductivity (K) of a rubber tube	
9	Velocity of sound by resonance tube	
10	Impedance by voltage drop	
11	Study of L-C-R series resonance	
12	RC Phase shift oscillator	
13	Plank's constant "h" using photocell	
14	Exponential least square fitting	
15	Numerical differentiation	

Note: To provide flexibility up to the maximum of 20% of total experiments can be replaced/ added to the list by the board of studies.

Basic Text & Reference Books :-

- Advanced Practical Physics for students
B L Wosnop and H T Flint
Methuen and Co. Ltd., London
- B.Sc. Practical Physics
C L Arora
S.Chand & Co. Ltd., New Delhi
- Advanced Practical Physics
M S Chauhan and S P Singh
Pragati Prakashan, Meerut
- Advanced Practical Physics
S L Gupta and V Kumar
Pragati Prakashan, Meerut

