

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

Paper Code: US05CPHY08	Total Credit: 2
Title Of Paper: Physics Practical (Electronics and Communication)	

	Description in detail	
List Of Practicals		
1	Astable and Monostable Multivibrator	
2	MOSFET characteristics	
3	Class A amplifier	
4	Operational amplifier (Inverting and non inverting modes)	
5	Frequency response of OpAmp	
6	Logic gates (discrete and IC based AND, OR, NOT NAND and NOR gates)	
7	Flip-flops (RS, JK, D)	
8	Amplitude modulation and demodulation	
9	Optical fiber (To find numerical aperture for optical fiber)	
10	Computer simulation of Analog electronic circuits	

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
- An advanced course in practical Physics
D Chattopadhyay and P C Rakshit, New Central book agency Pvt. Ltd.

