

**SARDAR PATEL UNIVERSITY**  
**Programme: B.Sc (Physics)**  
**Semester: VI**  
**Syllabus with effect from: November/December-2013**

<b>Paper Code: US06CPHY07</b>	<b>Total Credit: 2</b>
<b>Title Of Paper: Physics Practical (Electricity, Magnetism and Nuclear Physics)</b>	

	Description in detail	
<b>List Of Practical</b>		
1	Hall effect ( constant probe current)	
2	Mutual inductance by Carey-Foster method	
3	High resistance by leakage	
4	L - by Owen's bridge	
5	e/m' of an electron by magnetron method	
6	Susceptibility of paramagnetic /ferromagnetic solution by quink's method	
7	Temperature variations of dielectric constant	
8	LVDT characteristics	
9	Characteristics of G. M. counter	
10	Simulation of harmonic oscillator	

**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.

