

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

<b>Paper Code: US06CPHY09</b>	<b>Total Credit: 2</b>
<b>Title Of Paper: Physics Practical (Optics, Solid State Physics and Numerical Analysis )</b>	

Description in detail	
<b>List Of Practicals</b>	
1	Febry-Parot Etalon
2	Babinet Compensator
3	Determination of lattice parameter from a photograph (electron diffraction ring pattern)
4	Planck's constant by solar cell
5	To study Hydrogen spectrum and determination of Rydberg's constant
6	Searl's Goniometer (Variable distance)
7	Square well potential
8	Characteristics of LDR
9	Numerical integration(computer related)
10	Numerical Analysis of Nuclear Stability

**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.

