

Ch. Ranbir Singh University, Jind
Undergraduate Programs
Course: SEC-4

Session: 2025-26

Part A - Introduction

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Part A - Introduction			
Subject	Physics		
Semester	6th		
Name of the Course	Applied Instrumentation and Measurement Techniques		
Course Code	PHY-SEC-627		
Course Type: (CC/MCC/MDC/CC-M/ DSEC /VOC/DSE/PC/AEC/VAC)	SEC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	NA		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. To introduce students to essential tools and techniques used in scientific measurements. 2. To develop practical skills in handling, calibrating, and interpreting results from electronic and optical instruments. 3. To enhance problem-solving ability and confidence in lab 		
Credits	Theory (Tutorial)	Practical	Total
	1	1	2
Contact Hours	1	2	3
Max. Marks:50 Internal Assessment Marks:15 End Term Exam Marks:35		Time: 2hrs	
Part B-Contents of the Course			
<u>Instructions for Paper- Setter</u>			
<ol style="list-style-type: none"> 1. Seven questions will be set in total. 2. Question no. 1 will be compulsory and based on the conceptual aspects of the entire syllabus. This question may have 4 parts and the answer should be in brief but not in Yes/No. Two questions 			

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Part C-Learning Resources

Recommended Books/e-resources/LMS:

1. A text book in Electrical Technology - B L Theraja, S. Chand and Company.
2. Performance and design of AC machines M.G. Say, ELBS Edn.
3. Mechanical workshop practice, K.C. John, 2010, PHI Learning Pvt. Ltd.
4. Optical Physics, A. Lipson, S.G. Lipson, H. Lipson, 4th Edn., 1996, Cambridge Univ. Press
5. Workshop Processes, Practices and Materials, Bruce J Black 2005, 3rd Edn., Editor Newnes [ISBN: 0750660732]
6. New Engineering Technology, Lawrence Smyth/Liam Hennessy, The Educational Company of Ireland [ISBN0861674480].

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