Semester	AUG 2022
Open to semester	5,11
Course code	PH3173
Course title	Physics Lab-III
Credits	3 /
Course Coordinator & participating faculty (if any)	Sunil Nair*, Prasenjit Ghosh
Nature of Course	Lab
Pre-requisites	Physics Lab -II
Objectives (goals, type of students for whom useful, outcome etc)	Gain an understanding of the key concepts in modern physics using different experimental set ups
Course contents (details of topics /sections with no. of lectures for each)	<ol> <li>Cornu's method</li> <li>Faradays and Lenz's law</li> <li>Axial magnetic fields</li> <li>Zeeman Effect</li> <li>Lock in Amplifier (Phase sensitive Detection)</li> <li>Kundst tube</li> <li>(Additional experiments to be added)</li> </ol>
Evaluation /assessment	End-Sem Examination-40% Mid-Sem Examination-60% Others-No mid-sem examination. Continuous evaluation - 60% %
Suggested readings (with full list of authors, publisher, year, edn etc.)	<ol> <li>The Art of Experimental Physics: D.W. Preston and ?E.R. Dietz (1991), John Wiley. ?</li> <li>An introduction to Error Analysis, John R. Taylor, ?University Science Books. ?</li> <li>Advanced Practical Physics: B.L. Worsnop and H.T. ?Flint, Asia Publishing House ?</li> <li>Analytical Experimental Physics: M. Ference Jr., ?H.B. Lemon and R. J. Stephenson (1970) University of Chicago Press. ?</li> </ol>