640-393 Laboratory Work A

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Semester 2, - Taught on campus. Practical laboratory classes.
Time Commitment:	Contact Hours: Six weeks of contact (three 4-hour sessions per week) Total Time Commitment: 120 hours total time commitment.
Prerequisites:	*Laboratory Work* (640-299)
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr Roger Paul Rassool
Subject Overview:	The two subjects *Laboratory Work A* and *Laboratory Work B* are offered sequentially. In both subjects laboratory work draws from a common pool of experiments. Practical experience is available in the following laboratories: nuclear physics, particle physics, diffraction, electronics, atomic physics, optical physics and astronomy. Workshop experience is also available; in some laboratories individual projects can be selected. *Laboratory Work B* offers the possible extension to research project work.
Objectives:	Students completing this subject should be able to: # demonstrate an understanding of a wide variety of advanced experimental and data analysis techniques; # acquire, analyse and interpret experimental data; and # write and evaluate scientific and technical reports.
Assessment:	Ongoing assessment of laboratory work during the semester, consisting of laboratory participation (28%), record keeping (57%) and written reports (15%) up to a total of 9000 words.
Prescribed Texts:	None
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Students should enhance their ability to: # participate effectively in a laboratory environment and be able to work as part of a team; and # plan effective work schedules and manage their time to meet the deadlines for submission of assessable work.
Notes:	This subject is available for science credit to students enrolled in the BSc (pre-2008 degree only), BASc or a combined BSc course. The standard laboratory sequence taken by most students specialising in physics and wishing to proceed to honours-level studies in physics totals 25 points. This is usually achieved by completing *Laboratory Work A* and *Laboratory Work B*.
Related Majors/Minors/ Specialisations:	Physics