

Course Number : PHYS 493	Course Title : Project I
Required / Elective : required	Pre / Co-requisites : -
Catalog Description: Design and development of a project for an experimental or theoretical physics problem under the supervision of an academic advisor; submission of the results in the form of a project report and oral presentation.	Textbook / Required Material :
Course Structure / Schedule : (0+0+4) 2 / 6 ECTS	
Extended Description : Students carry out an individual research project on a specific topic in an area of physics under the guidance of a faculty member. The written project report is submitted to the supervisor and the department, and a <15 min. oral presentation is given during the first week of the final examinations.	
Design content : Students design measurement setups for their experimental studies.	Computer usage: Students use computational and graphics software in collecting, analyzing and presenting the data obtained in their theoretical and experimental studies.
Course Learning Outcomes [relevant program outcomes in brackets]: On successful completion of this course students will be able to <ol style="list-style-type: none"> 1. recognize current and interesting research topics in physics; 2. demonstrate an understanding of one advanced topic of interest in theoretical or experimental physics; 3. establish research skills, including library research, time management, independent working, initiative, flexibility and systematic planning and carrying out a research project; 4. develop written and oral presentation skills; 5. justify the importance and practice of good ethical standards; 6. appraise the need for and an ability to engage in life-long learning. 	
Recommended reading:	

Teaching methods:

Scheduled weekly discussions with the supervisor.

Assessment methods:

An oral project presentation, and a project report.

Student workload:

Pre-reading	0 hrs
Lectures, discussions	30 hrs
Exercise sessions	0 hrs
Homework	0 hrs
Independent work	45 hrs
Planning / carrying out the project	74 hrs
Presentations	1 hrs

TOTAL 150 hrs ... to match 25 x 6 ECTS

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