

## **63274 - 741 (32) Physics Project (6L, 6P)**

**202020**

### **Course summary:**

Independent work on a topic that forms part of Physics, chosen in consultation with lecturers in the Department of Physics. The project should form part of the research activities of the Physics Department under supervision of a suitable supervisor. The project must be approved by the research committee of the Physics Department. A written report has to be submitted and an oral presentation must be given. Each student must also complete an oral examination.

### **Module relevance in programme:**

Doing a research project over a longer term is an important skill for the workplace and in completing research degrees. The project will deepen a student's understanding in a part of physics, but also develop the skills of engaging with the subject literature and in tackling research problems with much greater independence than they might have previously.

### **Outcomes of course:**

This course exposes the student to independent project work. In particular the student is skilled in the use and reading of physics articles and the writing of scientific reports. A project supervisor will be allocated to the chosen project.

### **Lecturer:**

**Prof KK Müller-Nedebock**

Telephone number: (021) 808-3386

E-mail address: [kkmn@sun.ac.za](mailto:kkmn@sun.ac.za)

Office: Room 1009 in the Merensky Building.

### **Mentor:**

The Department of Physics has appointed a staff member as mentor for each year of its physics programme to be available to students for consultation. Students should feel free to discuss general issues related to the physics programme or specific modules in the programme with the relevant mentor, in addition to usual consultations with their individual lecturers of modules.

The mentor for the Honours programme and its modules is **Dr CM Steenkamp** [cmsteen@sun.ac.za](mailto:cmsteen@sun.ac.za).

### **Course content:**

Independent project work in the field of the student's choice of honours course, that can be either of an experimental or theoretical nature.

### **Study material:**

Depends on the project chosen, but will involve the reading of articles in Physics Journals available in the Library.

## **Assessment:**

### ***Methods of Assessments***

A final mark is awarded on the basis of the written report (80%), and an oral presentation of the project and an oral exam (20%)