UNIVERSITY OF CAPE TOWN
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Participants of 1032S

Course information sheet for 1032S 2021 – General Physics B

Despite the limitations that covid-19 lock down rules place on all of us, I wish you all an interesting and educational experience with this course. You will encounter a wide variety of topics split over 4 modules, two per quarter and a laboratory component to be completed online. The modules are:

- Modern Physics which will provide glimpses at topics ranging from quantum mechanics and relativity. Lectured by Mark Blumenthal.
- Electromagnetism 1: Static electric and magnetic phenomena. Lectured by Heribert Weigert.
- Thermodynamics and Optics. Two diverse topics, lectured by Zina Ndabeni.
- Electromagnetism 2: Time dependent electric and magnetic phenomena, induction. Lectured by Sahal Yacoob.

Contact information:

- Prof. Mark Blumenthal: mark.blumenthal@uct.ac.za
- Ms Ameerah Camroodien: cmrame001@myuct.ac.za (course tutor)
- Dr. Nawahl Razak: nawahl.razak@uct.ac.za and Mr. Mark Christians: mark.christians@uct.ac.za (laboratory)
- Dr. Sahal Yacoob: sahal.yacoob@uct.ac.za
- Dr. Zina Ndabeni: zina.ndabeni@uct.ac.za
- Prof. Heribert Weigert: heribert.weigert@uct.ac.za (convenor)

Prescribed Textbook:

General Physics B: College Physics for PHY1032F at UCT. A copy of the textbook is available as a pdf for download on Vula or online as a navigable website at https://legacy.cnx.org/content/col12128/1.2 (data charges apply).

Homework:

All weekly problem sets will be presented via vula with numeric responses and other types of questions. You will receive feedback after you complete and submit the assignment. You may direct questions to the class tutor and the lecturer of the module.

Laboratory component:

The course contains a mandatory Laboratory component that will be conducted online. The Laboratory calendar and instructions for the individual Laboratory activities will be posted on the vula course site in the Laboratory calendar and under Announcements respectively.

All queries related to the laboratory work and assessment are to be directed to Dr. Nawahl Razak: nawahl.razak@uct.ac.za and Mr. Mark Christians: mark.christians@uct.ac.za.

Assessment:

There will be a module specific class test administered via vula in the last week of each module. A final exam covering all 4 modules will take place during the examination period. Weekly problem set marks will complement this part of the assessment. Lab reports and a laboratory test will cover the laboratory portion of the course.

Specific modalities of the individual activities will be announced via vula and email.

Assessment contributions and weights:

Module class tests 1-4	$4 \times 6\%$	24%
Exam		50%
Weekly problem sets		6%
Laboratory reports		10%
Laboratory test		10%

Should it not be possible to carry out an invigilated exam in the exam period weights may be shifted from the exam to the class tests.

Duly Performed (DP) requirement:

In order to qualify for writing the final examination, the following DP requirements must be met: minimum of 40% in class record; attendance at all tests; completion of all laboratory reports; completion of 75% of the problem sets. Students with aggregate between 45% and 49% may be awarded supplementary assessment likely to be scheduled in January 2021.

Code of Honour pledge and other individual student responsibilities:

- You will need to complete the **Code of Honour pledge** in the Tests and Quizzes tab on the vula course site.
- It is the individual students responsibility to contact the course convenor in case they are unable to participate in an assessment. *Use 1032S and a short description of the issue in the subject line of your email.*
- Laboratory exemptions potentially applicable in case a student has taken this course before (for laboratory work only, this does not apply to homework) may be applied for through Mark Christians mark.christians@uct.ac.za. The exemptions form can be found under Resources/Administration on the course vula site.

Calendar overview:

Module	module start	module end	test week	
MP	Aug 02	Aug 20	Aug 16-20	
EM I	Aug 23	Sep 09	Sep 05-09	
TD/O	Sep 10	Oct 11	Oct 04-08	(Interrupted by term break & exam days: Sep 20-29)
EM II	Oct 12	Nov 01	Oct 25-29	

Sincerely,

Heribert Weigert
Associate Professor, Director CTMP