

ZPHY C1101: Physics 1

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programme(s)				
his subject will be taught in three theory classes of one hour duration per week and one two hour practical ass each week.				
he aim of this module is to provide the student with an introduction to physics and to develop practical boratory skills.				
module the learner should be able to:				
LO1 Apply a theoretical knowledge of physics to solve problems.				
Practice scientific procedures, including measuring, recording and analysing experimental data. Identify and quantify basic sources of error in laboratory experiments.				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.				
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.				
No incompatible modules listed				
Co-requisite Modules				
No Co-requisite modules listed				
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.				
No requirements listed				
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Module Content & Assessment

Indicative Content

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Physical standards, SI units, measurements, measurement uncertainty.

Forces

Newton's Laws of motion. Force of gravity. Centripetal force. Conservation of energy. Conservation of momentum.

Droceuro

Density, atmospheric pressure, pressure in fluids and solids. Young's modulus.

Hoat

Temperature scales and thermometers. Specific heat capacity. Latent heat. Conduction, convection and radiation. Expansion of solids, liquids, gases. Gas laws and the kinetic theory of gases. Refrigeration.

Practicals

Measurement and analysis of primary data. Applying theory to data sets. Working both independently and as part of a group. Observing safety protocols.

Assessment Breakdown	%
Continuous Assessment	10.00%
Practical	50.00%
End of Module Formal Examination	40.00%

Special Regulation

Students must achieve a minimum grade (35%) in the practical/CA and the final exam.

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Two one hour exams during the semester.	1,2	10.00	n/a

No Project

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Two hour practical each week.	1,2	50.00	n/a

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Two hour exam.	1,2	40.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	3.00
Laboratory	12 Weeks per Stage	2.00
Estimated Learner Hours	15 Weeks per Stage	4.33
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SABTP_B	Bachelor of Science (Honours) in Biosciences with Biopharmaceuticals	1	Mandatory
CW_SABRE_B	Bachelor of Science (Honours) in Brewing and Distilling	1	Mandatory
CW_SAPHA_B	Bachelor of Science (Honours) in Pharmaceutics and Drug Formulation	1	Mandatory
CW_SAASC_D	Bachelor of Science in Analytical Science	1	Mandatory
CW_SABFQ_D	Bachelor of Science in Biosciences	1	Mandatory
CW_SASCI_C	Higher Certificate in Science in Applied Biology or Applied Chemistry	1	Mandatory