

SYLLABUS Introduction to Physics

(PHYS-101)

Modified: 29 April 2014

منهجية تدريس مقرر
مقدمة في الفيزياء
فيز 101

جامعة طيبة
Taibah
University



Course Goal and Objectives (مراش المقر وأهدافه)

This course will introduce fundamental principles in physics, giving more weight to physical concepts than mathematical details. It will emphasize topics that are of importance for the Preparatory Year's students in their future studies. This should help them to:

1. recognize (يعيز) the importance of physics in daily life.
2. recognize the important role of physics in science and technology.
3. develop skills for understanding and interpreting physical phenomena.
4. develop working skills for solving simple physics problems.

Textbook (الكتاب الدراسي)

In this course, instructions, teaching, tutorials, and exams shall all be in English. Arabic meanings of some keywords are provided at the end-of-chapter summaries, but the students should not expect instructions or exams to be entirely converted to Arabic.

The required (المطلوب) textbook is: *Introduction to Physics*, Pearson Publishers, 2013. This book was compiled for Taibah Preparatory Year's Program by Osama Ali-Yassin (PhD) and Bilel Zarour (PhD).

This textbook has an electronic part that can be accessed at: www.taibahu.mylabsplus.com and has course ID: physics833302eb.

Every student must have his own copy of the textbook in every class meeting. In addition, every student should have a notebook and pen, and should take notes during the lecture.

Instructors (المدرسون)

Course Supervisor:	Professor Osama A. Yassin
Instructor's Name:	W
Office Hours:	

Examinations and Grading

The students' performance (أداء) in PHYS 101 will be mainly evaluated (يقوم) via four examinations, as follows:

Examination	Approx. Date	Time (min.)	Questions	Grade Value
Interim-1 Exam (الاختبار الدوري الأول)	1 st quarter نهاية الربع الأول	60	10	10
Midterm Exam (الاختبار النصفى)	Middle منتصف الفصل	90	30	30
Interim-2 Exam (الاختبار الدوري الثاني)	3 rd quarter نهاية الربع الثالث	60	10	10
Final Exam (الاختبار النهائي)	End of Term نهاية الفصل	120	40	40
Total points:				90

The exact date of each exam will be announced at least one week in advance.

A practice session (حصّة تدريبيه) will be given to the students in class prior to each exam.

All exams will consist of multiple-choice questions, typically 4 choices per question. Each question will be worth 1 point in grading.

An interim exam will cover the recent material (المادة الأخيرة) that has not been tested yet. The Midterm and Final exams will be COMPREHENSIVE (شامل), covering all material (كل المادة) discussed prior to each of them.

A missed exam may *not* be retaken, except when a legitimate excuse (عذر مقبول) is presented and approved within 3 days after the exam.

Participation Score (درجات المشاركة)

10% of the overall grade will be reserved to student participation during the entire term. Each teacher will evaluate the students according to the following scheme:

Activity	Frequency / term	Points
10 minutes-pop quiz	2 times	2.5 × 2
Project #	5 times	5 × 1
Total points:		10
# يتم تسليم وتقييم المشروع في الأسبوع 12 من الفصل الدراسي		

Exam and quiz questions will be mostly taken from the textbook's solved examples, as well as the end-of-chapter questions, exercises, and problems.

Attendance (الحضور)

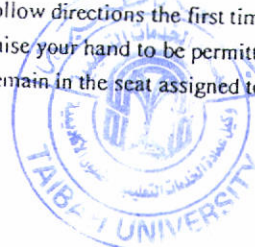
Every student's attendance will be checked and noted. Students with more than eleven (11) 50-min periods of unjustified or twenty-three (23) of justified absences during the entire term will be given a final grade of DN (denial حرمان). Regardless of attendance, every student is responsible for all material discussed in class.

A student arriving more than 10 minutes late is recorded late (L), and arriving more than 20 minutes late is recorded absent (A) and the teacher may choose to forbid him/her from attending the class.

Ethics and Regulations (أخلاقيات وانظمة)

Dear student: your enrollment at Taibah University expresses your commitment to learn and to abide by the University's Academic values. This, together with your religious teachings, requires you to be honest (أمين) in all your academic course work. Furthermore, all students have an absolute right to learn, and the teacher has an absolute right to teach—without interference or disturbance of any kind. Therefore, you must:

1. Abide by the University's rules and regulations.
2. Follow directions the first time they are given.
3. Raise your hand to be permitted to speak in class.
4. Remain in the seat assigned to you.



5. Be courteous and considerate of others. No swearing (سب) or foul language (أقبح في الكلام) or put-downs (استهزاء) will be tolerated.
6. Treat the personal property of others (including the University's property) with care and respect.
7. Switch off your telephone throughout the class duration.
8. Avoid agreeing with outside individuals to exchange things during class time.
9. Avoid coming to class in flashy (مبهرج) or flamboyant (مزعرف) clothes that conflict with your student identity.
10. Avoid cheating in assignments, quizzes, or exams. Cheating will be strongly penalized.
11. Avoid parking your car in faculty-designated parking.

Students who violate these regulations may receive progressive penalties starting with verbal warning, 5-minutes detention, 10-minutes detention, and full-period detention and referral to administration. Severe violations (i.e. fighting, extreme class

disruption, defiance, cheating) may result in immediate suspension and disciplinary action.

In addition, each of the following violations will be considered as a half-period's absence, so that any two of them will add-up to an absence (A):

Violation	Symbol
10-20 minutes late	L
Telephone ringing during class session	T
Unjustified interruption (مقاطعة) of lecture	I
Failing (إمهل) to bring textbook and/or notebook	B
Failing to bring pen or pencil	W
Failing to participate in class (sleep, phone, etc.)	R

Pacing Plan (خطة سير المادة)

The course will approximately cover the following topics over a span of 14 weeks. Any modifications or changes will be announced in class.

Week	Topics	Chapter	Contact Hours (Lectures + Tutorials)	Notes
1	Course Overview; Regulations; E-Course Login	Syllabus	---	
	Introduction to Physics	1	1L	
2	Units & Measurements	2	2L + 1T	
3	Matter & Energy	3	7L + 2T	INTERIM-I Exam will be on the 5 th week
4				
5				
6	Fundamentals of Mechanics	4	8L + 2T	The MIDTERM EXAM will approximately be after the 7 th week
7				
8+ 9(1L)				
9 (2L)	Fundamentals of Electricity	5	3L + 2T	INTERIM-II Exam will approximately be on the 11 th week
10				
11	Physics of Light	6	4L + 2T	
12				
13	Modern Physics	7	2L + 1T	
14	Revision			
FINAL EXAM				

