FACULTY OF SCIENCES - DEPARTMENT OF PHYSICS
COURSE SYLLABUS

PHYS 110: General Physics (1)

COURSE TITLE	*ENGLISH CODE/NO*	*ARABIC CODE/NO.*	*CREDITS*			
			Th.	*Pr.*	*Tr.*	*Total*
General Physics (1)	PHYS 110	فيز 110	3			3
Pre-requisites:	None					
Course Role in Curriculum *(Required/Elective):*	Required Course					
Catalogue Description: Physical quantities and dimensional analysis, vectors, motion in one dimension, motion in a plane, Newton's laws, friction, work and energy, impulse, momentum, collisions, and rotational motion.						

*Textbooks***:**
1.   C. H. Edwards & D. E. Penney, Elementary Differential Equations with Boundary Value Problems, Sixth Edition. Pearson Prentice Hill, 2008.

Supplemental Materials:
1.   Physics for scientist and engineers with modern physics by Serway (2005), Saunders College Publisher.
2.   University Physics by Sears, Zemansky, and Young (2007).
3.   Physics by Halliday, Resnick & Krane (2008) John Wiley & Sons.

Course Learning Outcomes:
By the completion of the course the student should be able to:
1.   Describe understanding of the fundamental concepts of mechanics.

Topics to be Covered:
1.   Physical quantities and dimensional analysis,
2.   Vectors,
3.   Motion in one dimension,
4,   Motion in a plane,
5.   Newton's laws,
6.   Friction,
7.   Work and energy,
8.   Impulse,
9.   Momentum,
10. Collisions,
11. Rotational motion.