

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Physics for Health Sciences
Course number	PHYS1303
Faculty	
Department	
Course type	College Needs
Course level	1
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - TO provide Vectors and Dimension Analyse
2 - To provide d physics of Biostatics (skeleton system), Static equilibrium
3 - To Understand the elastic properties of materials
4 - Thermal properties of matterTo understand
5 - FluidTo provide mechanics and its application in blood circulatory system and blood transportation,
6 - To understand the bio electricity (pulses in body and nerve conduction),

Course Contents

1 - Vectors and Dimension Analysis,
2 - Muscles, Force and physics of Biostatics (skeleton system), Static equilibrium
3 - Elastic properties of materials
4 - Thermal properties of matter
5 - Fluid mechanics and its application in blood circulatory system and blood transportation,
6 - Bioelectricity (pulses in body and nerve conduction),
7 - Introduction to waves (Sound-speech and hearing, ultrasound).

Teaching and Learning Methods

1 - - Lectures
2 - - Seminars

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
mid term exam	5 weeks	30
final exam	15 weeks	40
Quiz and hw		30

Books and References

Essential books	Physics for medical Sciences, DR Hassan Ashour , et, physics department , alazhar university,Gaza
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