

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Biomechanics (1)
Course number	AMSP2207
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Integrate Anatomy and Physiology in the study of human motion
2 - Describe the different forces acting on the human bones, muscles, and joints of the LE
3 - Describe the mechanical behavior of human bone, joint, and muscle against imposed forces
4 - Describe the structural properties of the human bone, muscle, and joints of the lower extremity

Course Contents

1 - Introduction to Biomechanics
2 - Biomechanics of the bone
3 - Biomechanics of the muscle
4 - Biomechanics of the joints of the lower extremity

Teaching and Learning Methods

1 - Power point presentation
2 - Formal lectures
3 - Hand outs
4 - Animated videos

Students Assessment

Assessment Method	TIME	MARKS
First exam	One hour	25%
Second exam	One hour	25%
Final exam	Two hours	50%

Books and References

Course note	Basic Biomechanics of the Musculoskeletal System, Margareta Nordin and Victor H. Frankel, Lippincott, 2012
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