

البرامج الدراسية

Course code	130201
Course name	Kinesiology
Pre-requisites	-
Description	This course deals with the mechanics of human motion from a functional anatomy perspective, Special emphasis will be given on center of gravity , stability and force system. The course emphasis on the nature of the musculoskeletal also simple body machine inside it as levers , pulley and wheel and axle in addition to laws of motion and it's clinical application .

Course code	130202
Course name	Biomechanics I
Pre-requisites	-
Description	This course deals with the biomechanics of bone, joints, muscles, articular cartilage, ligaments and tendons in addition to some orthopedic disorders that leads to poor posture and balance from a functional anatomy perspective and biomechanical point of view. Special emphasis will be given on different types of fractures plus biomechanics of fracture fixation and also principle of screw and plate fixation & mechanical behavior of implant materials . This course emphasis on some orthopedic disorders that leads to poor posture and balance in addition to role of physical therapy in early detection and treatment of postural errors .

Course code	130203
Course name	Biomechanics II
Pre-requisites	130202
Description	Gait analysis focus on building up knowledge and skills necessary for the utilization of the introduction , kinematic analysis of gait , running mechanics and gait analysis system .

Course code	130E21
Course name	Ergonomics
Pre-requisites	130203
Description	The Ergonomics course is concerned with the achievement of optimal relationships between humans and their work environment . Topics include the capabilities and limitations of human and machines, simulation of design and training, principles of symbolic and pictorial displays, static and dynamic forces on the human body, responses to environmental stress, injuries from poorly designed workplaces, and repetitive motion with emphasis on prevention.