



Al-Mustaqbal University College			
College of Engineering and Technology			
Biomedical Engineering Department			
Stage:5 th			
Sub: Biomechanics Design Lab			
Week	Laboratory Work		
1 st	Introduction		
2 nd	Velocity measurement using photocell and timer technique		
3 rd	Measuring body composition using Hydrodensitometry		
4 th	Determining the coefficient of friction during walking		
5 th	Center of Gravity		
6 th	Center of Gravity determination using Load Cell System		
7 th	Exam		
8 th	Dynamic Measurement of the Human Center of Mass		
9 th	Locating the Human Center of Gravity		
10 th	Skeletal Muscle Biomechanics		
11 th	Isometric Contraction of Parallel Skeletal Muscle Fiber		

12th	Impact of Balls
13th	Range of motion
14th	Analysis of push pull motion
15th	Exam