



Technical college\Mosul	30 Weeks	No. of week hours		
Department: Medical Instrumentation Engineering		Th.	App.	Unit
		2	2	6
First Year	Subject: Medical Physics.			

أهداف المادة: دراسة الظواهر الفيزيائية الخاصة بالجسم البشري و كيفية التعامل مع الأجهزة الخاصة بها.

Week	Syllabus
1 st	Forces on and in the body.
2 nd	Physics of the skeleton.
3 rd	Heat & cold in medicine.
4 th	Energy , work and power of the body .
5 th	Pressure in body organs.
6 th	Physics of the lungs and breathing.
7 th , 8 th	Physics of cardiovascular system.
9 th , 10 th	Physics of urinary system.
11 th , 12 th	Instrumentation related of the respiratory, cardiovascular and urinary systems.
13 th , 14 th	Electricity within the body.
15 th , 16 th	Applications of electricity and magnetism in medicine.
17 th , 18 th	Sound in medicine and physics of hearing.
19 th , 20 th	Light in medicine and physics of vision.
21 st , 22 nd	Diagnostic X-rays.
23 rd , 24 th	Physics of nuclear medicine (radioisotopes in medicine) .
25 th , 26 th , 27 th	Physics of radiation therapy.
28 th , 29 th , 30 th	Radiation protection.