Electrical Engineering Technical College	20	No . of week hours		
Department of Medical Instrumentation	30 Weeks	Th.	Pr.	Unit
Techniques Engineering		2	3	7
Second Year	Subject: Measurements & medical			
Second Tear	Transducers			

أهداف المادة <u>:</u>

معرفة المكونات الأساسية لأجهزة القياس و طرق استعمال الأجهزة في القياسات و التعرف على العوامل المؤثرة على دقة القراءة و كيفية اختيار الجهاز المناسب للاختبار والتعرف على معايرة أجهزة القياس.

Week	Syllabus
1 st	Measurement and errors .
2 nd	System of units of measurements.
3 rd	Standard of measurement .
4 th , 5 th	Measurement device and system.
6 th , 7 th	D.C indicating instrument .
8 th , 9 th	A.C indicating instrument .
10 th	Power transducers .
11 th , 12 th	Measurements of R, L and C.
13 th , 14 th	Descriptive lectures .
15 th , 16 th	Review of fundamentals of electrical measurements .
17 th , 18 th	General theory of PMMC instrument .
19 th , 20 th	Various instrument.
21 st	Circuits for D.C measurements.
22 nd	Fundamental of A.C measurements.
23 rd , 24 th	Electronic measuring instruments, oscilloscope.
25 th	Frequency measurements.
26 th	Magnetic instrument .
27 th	Concepts of cle.
28 th , 29 th	Types of medical transducers.