

قياسات ومحولات طبية

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

أهداف المادة : 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 و التعرف 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 .

