Msc 1st Part APPLIED PHYSICS

✓ Course Aims:

The broad aims of the course are as follows:

- 1. To provide the candidates with basic scientific knowledge and theories of physical medicine and to recognize its benefits and hazards.
- 2. To prepare the candidate to utilize this knowledge in management of different lesions of muscles, joints and other musculoskeletal disorders.

Course Content:

Subjects	Lectures	Total Teaching
	(1 hr/week	Hours
	For 15 weeks)	(15 hours/ 15
		weeks)
Electromagnetic spectrum:	1 hr/ wk	1 hr
1-=Ultra-violet rays	for one wk	
2-Infra red rays	1 hr/ wk	1 hr
	for one wk	
3 -LASER waves	1 hr/ wk	1 hr
	for one wk	
4-High frequency currents	1 hr/ wk	2 hr
(SW, MW)	for 2 wks	
Resistence	1 hr/ wk	1 hr
	for one wk	
Types of electric current:	1hr/ wk	4 hr
Direct current	for 4 wks	
Sinusoidal current		
Faradic current		
• TENS		

Didynamic current		
Interferential current		
Ultrasonic waves	I hr/ wk for one wk	1 hr
Latent heat	1 hr/ wk	1 hr
	for one wk	
Viscosity, surface tension	1 hr/ wk	1 hr
	for one wks	
Hydrotherapy	1 hr/ wk	2 hr
	for 2 wks	