

Dr. D.Y. PATIL COLLEGE OF PHYSIOTHERAPY

Dr. D.Y.PATIL VIDYAPEETH, PUNE

(DEEMED TO BE UNIVERSITY)

Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade.

(An ISO 9001:2008 Certified University)

LESSON PLAN (Theory)

Subject : Electrotherapy –II

Class : BPT II year Odd Batch (2017-18)

Class Incharge : Dr. Neha Kulkarni

Subject Teacher/s : Dr. Soumik Basu, Dr. P. Muruganandam, Dr. Roma Raykar

Total Hours prescribed: -100

S. No	Topics	No. of lecture/s required	Mode of teaching	Remarks
1	 Physiological effects, therapeutic uses, indications and contraindications and dangers of faradic type current, intermittent galvanic current and galvanic current Cathodal /Anodal Galvanism, Iontophoresis – with various ions &Pharmaco therapeutic drugs. Electrical stimulation for reeducation – short /long pulse motor points Strong surged faradic current under pressure /elevation. Electrical Reactions and Electro – diagnostic tests: Electrical Stimuli and normal behaviour of Nerve and muscle tissue. Types of lesion and development of 	15 5 10 4 13	PPT PPT PPT PPT	
	reaction of degeneration.	1	PPT	
	 - Faradic – Intermittent direct current test. - S.D. Curve and its application and characterstics - Chronaxie, Rheobase& pulse ratio - High voltage pulsed galvanic current 	2 5	PPT	
	TENS: Define, Principles of production, types, dosage, electrode placement, Physiological and therapeutic effects, indication and		PPT	

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	contraindications	1	PPT	
	 Micro –currents 	1	PPT	
	 Didynamic currents 			
2	Medium frequency currents	10	PPT	
	must know –			
	Interferential therapy: Define, Principles			
	of production, static Interferential			
	system, dynamic interference system,			
	dosage, electrode placement,		PPT	
	Physiological and therapeutic effects,			
	indication and contraindications.	1	PPT	
	Russian currents	1		
	Rebox type currents			
3.	Biofeedback method:	4	PPT	
	Instrumentation, principles, therapeutic			
	effects, indications, contraindications,			
	limitations, precautions, operational			
	skills and patient preparation			
4	Ultra – violet rays (UVR):	8	PPT	
	Wavelength, frequency, types & sources			
	of UVR generation, techniques of			
	irradiation, physiological & therapeutic			
	effects, indications, contraindications,			
	precautions, operational skills of			
	equipment & patient preparation. Dosimetry of UVR.			
5	Light Amplification of stimulated	5	PPT	
	Emission of Radiation (LASER)–			
	Definition, historical background,			
	physical principles, biophysical effects,			
	types, production, therapeutic effects,			
	techniques of application, indications,			
	contraindications, precautions,			
	operational skills and patient preparation.			
6	Care of wound –application of	4	PPT	
	Therapeutic currents, Ultrasound, U.V.R.			
	& LASER	-	777	
7	Combination Therapy	2	PPT	
8	Intermittent Therapy unit, its operation	2	PPT	
	and different methods of application			
	region wise.	2	DDT	
	Interferential Pneumatic Therapy unit,	2	PPT	
	its operation and different methods of			
	application – region wise.			