

Department of Basic Science of Physical Therapy
Course Title: electrotherapy Code No.: PT 105

Please choose one of the following topics under the explained guidelines:

- 1- Explain in five pages the body response process to injury and different body mechanisms to control pain (Individual).**

Students should cover the three phases of inflammation, ascending and descending mechanisms of pain control with illustrating diagram.

- 2- A 35 male patient has pain at common extensor origin of the right elbow joint was referred to the physical therapy unit (Individual).**

A- What is the suggested diagnosis?

B- Design a brief plan for management?

C- What is the best recommended electrotherapeutic modalities for this case?

D- Why?

E- Explain how to apply two of them.

- 3- Compare between all studied electrotherapeutic modalities.**

- (Team work 3-5 students) please, explain the role of each student.
- Not exceed 5 pages.
- Students should cover at least **seven points** of the following to be successful.

Definition, types, mechanism of action, effects, techniques, preparation, application, parameters, indications, contraindications & precautions.

4- Explain in five pages various physical laws regulating the depth of penetration during the application of therapeutic modalities and explain in details two of them (Individual).

5- Explain in five pages the best electrotherapeutic modality used for treatment of plantar fasciitis (Individual).

Students should cover at least **seven points** of the following to be successful.

Overview about the case, patient assessment, instructions to the patient, mechanism of action, effects, techniques, preparation of the apparatus, position of the patient, treatment parameters application and precautions.

6- Explain in five pages the best electrotherapeutic modality used for treatment of tennis elbow (Individual).

Students should cover at least **seven points** of the following to be successful.

Overview about the case, patient assessment, instructions to the patient, mechanism of action, effects, techniques, preparation of the apparatus, position of the patient, treatment parameters application and precautions.

7- Explain in five pages the best electrotherapeutic modality used for treatment of psoriasis (Individual).

Students should cover at least **seven points** of the following to be successful.

Overview about the case, patient assessment, instructions to the patient, mechanism of action, effects, techniques, preparation of the apparatus, position of the patient, treatment parameters application and precautions.

8- Compare in five pages between different types of laser (Individual).

9- Explain in five pages different scales used for pain assessment (Individual).

References should be included.