

Subject Title:	ADVANCE PHYSIOTHERAPEUTIC
Subject Code:	1PT2010103
Year:	First Year MPT
Pre-requisite Subject	- NONE -

Objectives of course:

1. Demonstrate professional behavior and respectful communication and conduct patient centric physiotherapy assessments of various orthopedics conditions using best supportive evidence.
2. Analyze the relevant clinical findings with regards to contextual, environmental, and personal factors.
3. Develop realistic and acceptable therapeutic goals that are patient centric consistent with the needs and goals of the patient.
4. To develop protocols for different physiotherapy musculoskeletal conditions and analyze the physiotherapy related problems that are needed for intervention.
5. Demonstrate the evidence based advanced physiotherapy management for musculoskeletal conditions.

Subject Contents (50 Hours)

- 1 Pain: Neurobiology, Various theories, Modulation and Physiotherapy Management including electromagnetic radiations, ultrasound, Electro acupuncture etc.
- 2 Maternal and child care in general physiotherapy.
- 3 Applied neuro- anatomy and neuro-physiotherapy.
- 4 Inhibition and facilitation techniques.
- 5 Theories of motor learning.
- 6 Therapeutic bio feedback & psychosomatic training.
- 7 Combination therapy, shock wave therapy, long wave therapy.
- 8 Functional training – Respiratory exercises, Training for feeding, bladder and bowel training, coughing and compression
- 9 Artificial respiration, inhalation therapy & intensive care unit procedures.
- 10 Yogasanas& Pranayama
 - a. Physiological & therapeutic principles of yoga
 - b. Yogasanas for physical culture, relaxation and meditation.
 - c. Application of Yogasanas in physical fitness, flexibility, cardiac rehabilitation and neuromotor learning.
 - d. Pranayama and respiratory physiology.
 - e. Kriyas and their physiological significance. Therapeutic application of yoga.
 - f. Yoga – a holistic approach.
- 11 Acupuncture: definition, principles, techniques, physiological effects, indications, contra- indications, dangers & integration of acupuncture with physiotherapy.
- 12 Magneto therapy.
- 13 Naturopathy
- 14 Dry Needling in various conditions
- 15 History of manual therapy, overview of manual therapy approaches for all the joints
- 16 Clinical Reasoning and differential clinical diagnosis and practical application of different approaches such as – Maitland, Kaltenborne, Cyriax, Mulligan and Mackenzie.
- 17 Soft tissue approaches: Myofascial Release techniques, Neural tissue mobilization, Muscle Energy Techniques (MET), Position Release Therapy (PRT), Kinetic chain approach along with practical application.
- 18 Massage, mobilization and manipulations.
- 19 Ergonomics
- 20 Recent advances and Evidence based Practice in all physiotherapeutic conditions.