UNIT - 01
A. INTERRUPTED GALVANIC CURRENT:
   1. TYPES OF FREQUENCIES - LOW AND HIGH
   2. TYPES OF DURATION - SHORT AND LONG

B. EFFECTS OF INTERRUPTED GALVANIC CURRENT ON INNERVATED AND DENERVATED MUSCLES.

C. CHARACTERISTICS OF STIMULATING CURRENT:
   1. TYPE
   2. DURATION
   3. SHAPE
   4. FREQUENCY

D. THRESHOLD OF STIMULATION:
   1. RHEOBASE
   2. CHRONAXIE
   3. MASKING

E. PHYSIOLOGICAL EFFECTS OF IG CURRENT, CHEMICAL AND THERAPEUTIC EFFECTS.

UNIT - 02
ELECTRODIAGNOSTIC TESTS AS FOLLOWS:
   1. STRENGTH DURATION CURVES
   2. F.G.TEST
   3. FATIGUE TEST
   4. OUTLINE OF EMG

UNIT - 03
PERIPHERAL NERVE LESIONS: NEUROPRAXIA, AXONOTMESIS, NEUROTOMESIS, DESCRIBE CLINICAL SYMPTOMS AND SIGNS, AIMS IN TREATMENT. METHODS AND SELECTION OF CURRENTS IN DIFFERENT LESIONS.

UNIT - 04
ALTERNATING CURRENT:
   1. FARADISM
   2. SURGED FARADISM
   3. PHYSIOLOGICAL EFFECTS
   4. THERAPEUTIC EFFECTS

UNIT - 05
DIRECT CURRENT:
   1. DEFINITION
   2. PHYSIOLOGICAL AND CHEMICAL EFFECTS
   3. THERAPEUTIC AND POLAR EFFECTS
4. DANGERS OF DC: SHOCKS, SAFETY PRECAUTIONS AND MANAGEMENT

UNIT - 06
T.E.N.S: DEFINE TENS, WORKING OF TENS.

UNIT - 07
THEORY OF PAIN
1. SPECIFICITY THEORY
2. PATTERN THEORY
3. GATE CONTROL THEORY

UNIT - 08
INTERFERENTIAL THERAPY
1. DEFINE INTERFERENTIAL THERAPY
2. DISCUSS- PRODUCTION
3. PHYSIOLOGICAL EFFECTS
4. INDICATIONS AND CONTRAINDICATIONS
5. DANGERS
6. TECHNIQUE OF TREATMENT
7. THERAPEUTIC USES

UNIT - 09
HIGH FREQUENCY:
SHORT WAVE DIATHERMY
1. PROPERTIES OF HIGH FREQUENCY CURRENTS
2. TYPES OF HIGH FREQUENCY CURRENTS
3. PRODUCTION OF HIGH FREQUENCY CURRENTS
4. METHODS
5. PHYSIOLOGICAL AND THERAPEUTIC EFFECTS OF S.W.D.
6. TECHNIQUE OF APPLICATION
7. SPECIFIC REQUIREMENTS
8. DANGERS AND PRECAUTIONS.

MICROWAVE DIATHERMY:
1. PRODUCTION-EXPLAIN WITH DIAGRAM
2. EXPLAIN HOW THE MAGNETRON WORKS
3. APPLICATION OF M.W
4. PHYSIOLOGICAL EFFECTS
5. THERAPEUTIC EFFECTS
6. TECHNIQUE EFFECTS
7. INDICATION AND CONTRAINDICATION
8. DANGERS

UNIT - 10
PARAFFIN WAX & MOIST HEAT:
1. METHOD
2. PHYSIOLOGICAL EFFECTS
3. INDICATIONS & CONTRAINDICATIONS
4. ITS USES IN VARIOUS CONDITIONS
UNIT - 11
ULTRA SONIC THERAPY:
1. DEFINITION
2. EXPLAIN WITH THE AID OF DIAGRAM THE PRODUCTION OF U.S
3. PROPERTIES OF U.S
4. THERMAL, MECHANICAL, CHEMICAL AND BIOLOGICAL EFFECTS
5. COUPLING MEDIA
6. PULSED U.S
7. USES OF U.S
8. TECHNIQUE OF APPLICATION
9. DANGERS
10. INDICATIONS AND CONTRAINDICATIONS

UNIT - 12
CRYOTHERAPY:
1. PHYSICAL PRINCIPLES
2. PHYSIOLOGICAL EFFECTS AND USES
3. TECHNIQUE OF APPLICATION
4. METHODS
5. INDICATION AND CONTRAINDICATIONS

LASER:
DEFINE LASER AND BRIEFLY OUTLINE ITS THERAPEUTIC EFFECTS, INDICATIONS, CONTRAINDICATIONS, EFFICACY AND PRECAUTIONS ADVISABLE.