

Syllabus and Curriculum  
of  
Diploma in Physiotherapy Technician course

**(To be implemented From 2015 - 16 session)**

Uttar Pradesh State Medical Faculty, Lucknow.

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## OBJECTIVES OF THE COURSE

To prepare a **Physiotherapy technician** who –

- Can examine and assess deficits of neurological & musculoskeletal systems.
- Can advise and execute appropriate exercise & electrotherapy.
- Can maintain rich communication with related consultant surgeons & physicians & follow their order.
- Can give psychological support to the patients and their relatives.

# Outline of Curriculum of Diploma in Physiotherapy Technician course

## FIRST YEAR

### **THEORY ( Classes: 9 AM to 12 Noon)**

#### **First paper : Syllabus covers -**

1. General Anatomy & Physiology (Cytology, Histology, Osteology and only basics of all organ systems of body).
2. Only basics of relevant Pathology, Pharmacology & Microbiology.

#### **Second paper : Syllabus covers -**

1. Detailed Anatomy of bones, muscles, joints, nerves of body.
2. Basics of exercise therapy, electrotherapy, physics used in physiotherapy, biomechanics & kinesiology.
3. Hand hygiene & prevention of cross infection.
4. Basic life support (BLS) & Cardio-pulmonary resuscitation (CPR).

## FIRST YEAR

### PRACTICAL ( Classes: 1 PM to 4 PM)

Practical classes will be after lunch; from 1 PM to 4 PM.

Students must present in the hospital/ physiotherapy lab for practicals.

**During first year, they should be there only as “Observers” in practical classes.**

(Observership for Various technics of exercise & electrotherapy, Vital monitoring.)

**Following subjects must be taught; though there will not be any exam from these-**

1. Basic Computer skills.
2. Basic English.
2. **Soft skills like** - Interpersonal relationship skills & moral education.

Outline of Curriculum  
of  
Diploma in Physiotherapy Technician course

SECOND YEAR

**THEORY ( classes:9 AM to 12 Noon)**

**First paper : Syllabus covers -**

1. Only relevant surgical & medical conditions (relevant to Physiotherapy but other than Orthopedics and neurological systems).
2. Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion.

**Second paper : Syllabus covers -**

1. Physiotherapy in Orthopaedics, Neurological, Medical, Surgical & Sports related conditions.
2. Drugs used in Physiotherapy & BLS.
3. Basic biomedical engineering physics of machines used in physiotherapy.

## SECOND YEAR

### PRACTICAL ( classes:9 AM to 12 Noon)

Practical exams syllabus should cover-

- Hands on training of Vital Monitoring .
- Hands on training of various exercise therapies.
- Hands on training of various electrotherapies.
- Hands on training of BLS.

## ELIGIBILITY CRITERIA FOR ADMISSION & DURATION OF THE COURSE

### **COURSE DURATION:-**

- It is 2 years, **full time** Diploma Course.

### **ELIGIBILITY:-**

- Candidate must have passed 12<sup>th</sup> with  
Physics, Chemistry, Biology  
Or  
Physics, Chemistry, Maths  
with 35% marks in Intermediate exams.  
  
(From UP board or any other recognised board).
- Candidate must have completed age of 17 years of age as on 31<sup>st</sup> December of admission year. There is no maximum age limit for the admission.



## SCHEDULE OF EXAMINATION

### FIRST YEAR

| <u>Paper</u>                      | <u>Subjects</u>   | <u>Mark</u> | <u>Internal Assessment Marks</u> | <u>Total Marks</u> | <u>Pass Marks</u> | <u>Duration of Exam.</u> |
|-----------------------------------|---|-------------|----------------------------------|--------------------|-------------------|--------------------------|
| <b><u>First Paper Theory</u></b>  | <p>1.General Anatomy &amp; Physiology (Cytology, Histology, Osteology and only basics of all organ systems of body).</p> <p>2.Only basics of relevant Pathology, Pharmacology &amp; Microbiology.</p>   | 75          | 25                               | 100                | 50                | 3 Hours                  |
| <b><u>Second Paper Theory</u></b> | <p>1.Detailed Anatomy of bones, muscles, joints, nerves of body.</p> <p>2.Basics of exercise therapy, electrotherapy, physics used in physiotherapy, biomechanics &amp; kinesiology.</p> <p>3.Hand hygiene &amp; prevention of cross infection.</p> <p>4.Basic life support (BLS) &amp; Cardio-pulmonary resuscitation (CPR).</p> | 75          | 25                               | 100                | 50                | 3 Hours                  |
| <b><u>Practical</u></b>           | Oral & Practical  | 75          | 25                               | 100                | 50                | 3 Hours                  |

## SCHEDULE OF EXAMINATION

### SECOND YEAR

| <u>Paper</u>                      | <u>Subjects</u>  | <u>Mark</u> | <u>Internal Assessment Marks</u> | <u>Total Marks</u> | <u>Pass Marks</u> | <u>Duration of Exam.</u> |
|-----------------------------------|--|-------------|----------------------------------|--------------------|-------------------|--------------------------|
| <b><u>First Paper Theory</u></b>  | <p>1. Only relevant surgical &amp; medical conditions (relevant to Physiotherapy but other than Orthopedics and neurological systems).</p> <p>2. Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion.</p> | 75          | 25                               | 100                | 50                | 3 Hours                  |
| <b><u>Second Paper Theory</u></b> | <p>1. Physiotherapy in Orthopaedics, Neurological, Medical, Surgical &amp; Sports related conditions.</p> <p>2. Drugs used in Physiotherapy &amp; BLS.</p> <p>3. Basic biomedical engineering physics of machines used in physiotherapy.</p>                 | 75          | 25                               | 100                | 50                | 3 Hours                  |
| <b><u>Practical</u></b>           | Oral & Practical   | 75          | 25                               | 100                | 50                | 3 Hours                  |

## SCHEDULE OF COURSE

(List of holidays, Total hours, Subject wise allotment of hours)

- **List of Holidays:-**

|                      |            |
|----------------------|------------|
| Sundays              | - 52 days  |
| Summer vacation      | - 10 days  |
| Winter vacation      | - 10 days  |
| Gazetted holidays    | - 23 days  |
| Preparatory holidays | - 10 days  |
| <hr/>                |            |
| Total Holidays       | - 105 days |
| <hr/>                |            |

- **Total Hours :-**

|   |                                  |
|---|----------------------------------|
| Theory classes per day  | - 3 Hours                        |
| Practical classes per day                                       | - 3 Hours                        |
| Total hours per day   | - 6 Hours                        |
| Total days & hours in One year<br>(after deduction of holidays) | - 260 days<br>or<br>- 1560 Hours |

## SCHEDULE OF COURSE

### Subject wise allotment of hours

#### FIRST YEAR

**Theory (780 Hours) Practical (780 Hours)**

|   |   |         |
|---|---|---------|
| <b><u>First Paper Theory</u></b>  | 1.General Anatomy & Physiology (Cytology, Histology, Osteology and only basics of all organ systems of body). | 235 Hrs |
|   | 2.Only basics of relevant Pathology, Pharmacology & Microbiology.   | 100 Hrs |
| <b><u>Second Paper Theory</u></b>   | 1.Detailed Anatomy of bones, muscles, joints, nerves of body.   | 190 Hrs |
|   | 2.Basics of exercise therapy, electrotherapy, physics used in physiotherapy, biomechanics & kinesiology.      | 160 Hrs |
|   | 3.Hand hygiene & prevention of cross infection.   | 15 Hrs  |
|   | 4.Basic life support (BLS) & Cardio-pulmonary resuscitation (CPR).  | 10 Hrs  |
| <b><u>Third Paper Practical</u></b>   | As described in curriculum  | 780 Hrs |
| <b><u>Theory: Other Subjects</u></b><br>(These subjects must be taught; though there will not be any exam from these) | 1.Basic Computer skills.  | 30 Hrs  |
|   | 2.Basic English.  | 30 Hrs  |
|   | 3.Soft skills like - Interpersonal relationship skills & moral education                                      | 10 Hrs  |

## SCHEDULE OF COURSE

### Subject wise allotment of hours

#### SECOND YEAR

**Theory (780 Hours) Practical (780 Hours)**

|   |   |         |
|---|---|---------|
| <b><u>First<br/>Paper<br/>Theory</u></b>    | 1. Only relevant surgical & medical conditions (relevant to Physiotherapy but other than Orthopedics and neurological systems). | 280 Hrs |
|   | 2. Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion.                      | 20 Hrs  |
| <b><u>Second<br/>Paper<br/>Theory</u></b>   | 1. Physiotherapy in Orthopaedics, Neurological, Medical, Surgical & Sports related conditions.                                  | 400 Hrs |
|   | 2. Drugs used in Physiotherapy & BLS.   | 30 Hrs  |
|   | 3. Basic biomedical engineering physics of machines used in physiotherapy.  | 50 Hrs  |
| <b><u>Third<br/>Paper<br/>Practical</u></b> | As described in curriculum  | 780 Hrs |

## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| PAPER 1st<br>Theory  | Topics  | Hours. |
|--|---|--------|
| <b>1.General Anatomy &amp; Physiology (Cytology, Histology, Osteology and only basics of all organ systems of body).</b> | 1. General Orientation about parts of human body. Various terms used in Anatomy. Total numbers of bones, their names & location. Basic idea about organization of body ,from cell to organ systems. | 06 Hrs |
|  | 2. Structure of Animal cell, Cell organelles & their functions  | 06 Hrs |
|  | 3. Human tissue, types, structure & functions.  | 10 Hrs |
|  | 4. Osteology: Names, location, identification and basic details of all bones. (Details of skull bones is not required).   | 20 Hrs |
|  | 5. Joints: types, basic structure & examples.   | 06 Hrs |
|  | 6. Skin & appendages.   | 02 Hrs |
|  | 7. GIT: : Location, Gross structure, various parts & their functions.<br>Details of process of food ingestion, digestion, absorption & defaecation. (Microscopic structure is not required.)        | 20 Hrs |
|  | 8. Respiratory tract: Location, Gross structure, various parts & their functions. Details of breathing mechanism, different respiratory volumes. (Microscopic structure is not required.)           | 20 Hrs |
|  | 9. Urinary tract: Gross structure, various parts & their functions. (Microscopic structure is not required.)<br>Process of urine formation & voiding.   | 20 Hrs |
|  | 10. Male reproductive system: Only gross structure & functions of different parts. (Microscopic structure is not required.)   | 05 Hrs |
|  | 11. Female reproductive system: Only gross structure & functions of different parts. (Microscopic structure is not required.)<br>Menstrual cycle.   | 05 Hrs |

## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| PAPER 1st Theory   | Topics   | Hours. |
|--|--|--------|
| <b>1.General Anatomy &amp; Physiology (Cytology, Histology, Osteology and only basics of all organ systems of body).</b> | <b>12.</b> Endocrine system: Hormones secreted by Pituitary, Thyroid, Parathyroid, Pancreas, Adrenal cortex, Adrenal medulla, Gonads & functions of different hormones. (Details of structure of these glands not required). | 20 Hrs |
|  | <b>13.</b> Gross structure of brain & spinal cord. Functions of different parts of brain & spinal cord.(Details not required.)   | 20 Hrs |
|  | <b>14.</b> Blood: Composition & Functions. Details about Plasma, RBCs, WBCs, Platelets, Clotting system.   | 30 Hrs |
|  | <b>15.</b> Gross structure & functions of sensory Organs - Eye, Ear, Nose, Tongue.(Details not required).  | 20 Hrs |
|  | <b>16.</b> Basic gross structure of heart, vessels opening into heart & Leaving the heart. Arterial & Venous tree of body.   | 20 Hrs |
|  | <b>17.</b> Lymphatic system: Structure & Functions.  | 10 Hrs |
|  | <b>18.</b> Inumune system: Components & various mechanisms of defense.   | 10 Hrs |

## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| <b>PAPER 1st Theory</b>  | <b>Topics</b>  | <b>Hours.</b> |
|--|--|---------------|
| <b>2.Only basics of relevant Pathology, Pharmacology &amp; Microbiology.</b> | 1. Basic steps of Acute & chronic inflammation.                              | 03 Hrs        |
|  | 2. Basics of Necrosis & apoptosis.   | 03 Hrs        |
|  | 3. Basics of Shock.  | 03 Hrs        |
|  | 4. Basics of Disorders of blood coagulation system.                          | 08 Hrs        |
|  | 5. Basics of Disorders of Immune system of body.                             | 05 Hrs        |
|  | 6. Modes of disease transmission & prevention of infection.                  | 05 Hrs        |
|  | 7. Sterilization & methods of sterilization used in hospitals.               | 10 Hrs        |
|  | 8. Basic idea about types of Bacteria, Virus, Fungi.                         | 20 Hrs        |
|  | 9. Routes of drug administration.  | 02 Hrs        |
|  | 10. Adverse effects & side effects of drugs.                                 | 02 Hrs        |
|  | 11. Basic idea of Analgesics : Opioid & NSAIDs & Skeletal muscle relaxants . | 06 Hrs        |
|  | 12. Basic idea of Drugs use in Cough & expectoration.                        | 01 Hrs        |
|  | 13. Basic idea of Drugs used in B. asthma & COPD.                            | 02 Hrs        |
|  | 14. Basic idea of Drugs used in GIT.   | 08 Hrs        |
|  | 15. Basic idea of Anti Microbials.   | 20 Hrs        |
|  | 16. Basic idea of Anti H-1 Histaminics & Corticosteroids.                    | 03 Hrs        |



## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory   | Topics   | Hours. |
|--|--|--------|
| <b>1.Detailed Anatomy of bones, muscles, joints, nerves of body.</b> | 1. General structure of long bone, flat bones (Histology & gross).   | 05 Hrs |
|  | 2. Detailed Histology & Physiology of skeletal muscles, ligaments & tendons.                                 | 10 Hrs |
|  | 3. Details of bones of upper limb.   | 05 Hrs |
|  | 4. Details of bones of lower limb.   | 05 Hrs |
|  | 5. Details of bones of vertebral column.   | 03 Hrs |
|  | 6. Details of ribs & sternum.  | 02 Hrs |
|  | 7. Details of muscles of upper limb (origin, insertion, action, nerve supply & surface marking).             | 25 Hrs |
|  | 26 Details of muscles of lower limb (origin, insertion, action, nerve supply & surface marking).             | 25 Hrs |
|  | 26 Details of muscles of abdomen & pelvic floor (origin, insertion, action, nerve supply & surface marking). | 10 Hrs |
|  | 11 Details of muscles of neck (origin, insertion, action, nerve supply & surface marking).                   | 05 Hrs |
|  | 12 Details of shoulder girdle, Shoulder, Elbow, Wrist, Hip, Knee & ankle, sub talar joints).                 | 35 Hrs |
|  | 13 Details of Basics of other joints of body.  | 10 Hrs |
|  | 14 Details of Brachial, sacral & lumbar plexes.  | 20 Hrs |
|  | 15 Details of spinal & cranial nerves.   | 20 Hrs |
|  | 16 General structure of Arteries, veins, capillaries.  | 05 Hrs |
|  | 17 Arterial & Venous tree of body.   | 05 Hrs |

## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory   | Topics  | Hours. |
|--|---|--------|
| <b>2. Basics of exercise therapy, electrotherapy, physics used in physiotherapy, biomechanics &amp; kinesiology.</b> | <b>1. <u>Mechanical Principles:-</u></b><br>Definition of Biomechanics, Axis and Planes, Kinematics, Kinetics, gravity, centre of gravity, line of gravity, base of support, Equilibrium, fixation and stabilization, force, types of forces, levers of the body and their mechanical advantage, pulleys, springs, Elasticity, type of muscle contraction, range of muscle work, the group action of muscles, spurt and shunt muscles | 25 Hrs |
|  | 2. Gait   | 10 Hrs |
|  | 3. Posture  | 05 Hrs |
|  | 4. Joint structure and function of all joints of the body<br>-type, articulating surface, osteokinematics, Arthrokinematics, Pathomechanics.  | 30 Hrs |
|  | 5. Physics and Basic Electrical Components.<br>Electromagnetic radiation, conductors, & Non Conductors of electricity, Transmission of heat, Physical effects of heat, static electricity, electric shock, earth shock.   | 20 Hrs |
|  | 6. Methods of heating the tissue.<br>Physiological effects of heat, Paraffin wax bath, Hot packs, moist packs, Infra-red rays, U.V. rays.<br>Definition, production, preparation of apparatus & patient, Physiological effects, techniques, dosage, indication, contraindication, dangers and precautions are to be covered.  | 20 Hrs |
|  | 7. Low Frequency Currents.<br>Faradic & Galvanic currents, SD Curve, Iontophoresis, TENS. Definition, production, preparation of apparatus & patient, Physiological effects, techniques, dosage, indication, contraindication, dangers and precautions are to be covered.   | 20 Hrs |
|  | 8. Cryotherapy<br>definition, production, preparation of apparatus & patient, Physiological effects, techniques, dosage, indication, contraindication, dangers and precautions  | 20 Hrs |
|  | 9. Medium Frequency current.<br>definition, production, preparation of apparatus & patient, Physiological effects, techniques, dosage, indication, contraindication, dangers and precautions  | 20 Hrs |
|  | 10. HIGH FREQUENCY CURRENTS SWD, MWD, US.<br>definition, production, preparation of apparatus & patient, Physiological effects, techniques, dosage, indication, contraindication, dangers and precautions   | 30 Hrs |

## Details of Curriculum for First Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory   | Topics  | Hours. |
|--|---|--------|
| <b>2. Basics of exercise therapy, electrotherapy, physics used in physiotherapy, biomechanics &amp; kinesiology.</b> | 11. <u>LASERS</u><br>Definition, Types, Production, Indications, contraindications<br>Technique of Application  | 20 Hrs |
|  | 12. Mechanical traction and CPM<br>Uses and Technique of application, Precautions.  | 10 Hrs |
|  | 13. <u>MASSAGE THERAPY</u><br>History and development, Types and techniques,<br>Physiological and therapeutic effects of various Manipulations,<br>Indications and contraindications,<br>Massage protocol for various conditions. | 20 Hrs |

| PAPER 2nd Theory  | Topics                                    | Hours. |
|---|---|--------|
| <b>3. Hand hygiene &amp; prevention of cross infection.</b> | 1. Hand hygiene & method of Hand washing. | 15 Hrs |
|   | 2. Prevention of cross infection.         | 15 Hrs |

| PAPER 2nd Theory   | Topics   | Hours. |
|--|--|--------|
| <b>4. Basic life support (BLS) &amp; Cardio-pulmonary resuscitation (CPR).</b> | 1. Code blue.  | 05 Hrs |
|  | 2. Details of basic life support (BLS) & Cardio-pulmonary resuscitation (CPR). | 35 Hrs |

Curriculum  
for  
Practical :- First Year  
Diploma in Physiotherapy Technician

|                  | Topics   |
|------------------|--|
| <b>Practical</b> | 1. Observing various types of electro therapies. |
|                  | 2 Observing various types of exercise therapy.   |
|                  | 3.Care of Unconscious patient.                   |
|                  | 4.Monitoring Temperature(manual).                |
|                  | 5.Monitoring Pulse (manual).                     |
|                  | 6.Monitoring Respiration (manual).               |
|                  | 7.Monitoring BP (manual).                        |
|                  | 8.Basic life support (BLS).                      |

## Details of Curriculum for Second Year Diploma in Physiotherapy Technician

| PAPER 1st Theory   | Topics   | Hours. |
|--|--|--------|
| <b>1. Only relevant surgical &amp; medical conditions (relevant to Physiotherapy but other than Orthopedics and neurological systems).</b> | 1. History taking. General examination of the patient. Filling Case-sheet. Common clinical words.  | 10 Hrs |
|  | 2. Hypertension:- Def, Causes, Pathology, Clinical features, Investigation & Management.   | 05 Hrs |
|  | 3. Hypotension :- Def, Causes, Pathology, Clinical features, Investigation & Management.   | 02 Hrs |
|  | 4. Diabetes mellitus :- Def, Causes, Pathology, Clinical features, Investigation & Management.   | 10 Hrs |
|  | 5. <u>Diseases of blood</u> :- Anaemia, Basics of coagulation Bleeding disorders & Haemophilia.  | 20 Hrs |
|  | 6. <u>Respiratory Tract</u> :- Pneumonia, Tuberculosis, B. asthma, COPD, Bronchiectasis, Collapse of lung, Pneumonitis, Pleural effusion, Pneumothorax, Empyema thoracis, Cancer lung. | 50 Hrs |
|  | 7. <u>Diseases of GIT &amp; Liver &amp; GB</u> :-Reflux Oesophagitis, Peptic ulcers, Gastritis, Intestinal Obstruction, Hepatitis, Cirrhosis of liver, Cholecystitis.                  | 40 Hrs |
|  | 8. <u>Disease of Heart</u> :- CHF, Condiac arrest, Isaemic heart disease, Rheumatic Heart diseases.  | 30 Hrs |
|  | 9. <u>Diseases of Urinary tract</u> :- Urolithiasis, Benign prostatic hyperplasia.   | 03 Hrs |
|  | 10. <u>Endocrine system</u> :- Diabetes mellitus, hypo & Hyper thyroidism.   | 20 Hrs |
|  | 11. <u>Miscellaneous</u> :- Hypo & Hyper Natraemia, Hypo & Hyper Kalaemia, Hypo & Hyper Calcaemia.   | 10 Hrs |
|  | 12. <u>Infections diseases</u> :- TB, Typhoid, Malaria, Dengue fever, Leprosy, AIDS, Amoebiasis.   | 50 Hrs |
|  | 13. Burn & Physiotherapy management of burn.   | 05 Hrs |

## Details of Curriculum for Second Year Diploma in Physiotherapy Technician

| PAPER 1st Theory   | Topics                                     | Hours. |
|--|--|--------|
| <b>2.Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion.</b> | 1. Temperature monitoring & Fever.         | 02 Hrs |
|  | 2. Pulse monitoring.                       | 02 Hrs |
|  | 3. BP monitoring.                          | 02 Hrs |
|  | 4. Respiration monitoring.                 | 01 Hrs |
|  | 5. Types of Injection routes.              | 01 Hrs |
|  | 6. IM Injection.                           | 01 Hrs |
|  | 7. IV Injection.                           | 01Hrs  |
|  | 8. SC Injection.                           | 01 Hrs |
|  | 9. Oxygen Therapy.                         | 03 Hrs |
|  | 10. Nebulization                           | 03 Hrs |
|  | 11. IV Infusion (Also with infusion pump). | 01 Hrs |
|  | 12. Care of Unconscious patient.           | 02 Hrs |

## Details of Curriculum for Second Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory   | Topics  | Hours. |
|--|---|--------|
| <b>1. Physiotherapy in Orthopaedics, Neurological, Medical, Surgical &amp; Sports related conditions</b> | 1. Details of examination of nervous system.  | 20 Hrs |
|  | 2. Details of Stroke & role of Physiotherapy in Stroke.   | 30 Hrs |
|  | 3. Details of Meningo-encephalitis & role of Physiotherapy in Meningo-encephalitis. .   | 20 Hrs |
|  | 4. Details of Epilepsy & role of Physiotherapy in Epilepsy.   | 10 Hrs |
|  | 5. Details of Intracranial bleed & Head injury & role of Physiotherapy in Intracranial bleed & Head injury.   | 30 Hrs |
|  | 6. Details of Traumatic Para & Quadriplegia & role of Physiotherapy in Traumatic Para & Quadriplegia.   | 30 Hrs |
|  | 7. Details of Facial nerve palsy & role of Physiotherapy in Facial nerve palsey.  | 10 Hrs |
|  | 8. Details of Parkinsonism & role of Physiotherapy in Parkinsonism.   | 05 Hrs |
|  | 9. Details of M.gravis & role of Physiotherapy in M. gravis.  | 05 Hrs |
|  | 10. Details of Motor neuron d's, GB syndrome & role of Physiotherapy in Motor neuron d's, GB syndrome.  | 20 Hrs |
|  | 11. Details of cerebral palsy & role of Physiotherapy in Cerebral palsy.  | 10 Hrs |
|  | 12. Details of Ataxia & role of Physiotherapy   | 05 Hrs |
|  | 13. Details of Types of fracture, basic principle of management of all types of fractures.  | 15 Hrs |
|  | 14. Details of Important fractures & role of Physiotherapy in Important fractures.  | 40 Hrs |
|  | 15. Details of Osteo-arthritis, Rheumatoid arthritis, Gouty arthritis, ankylosing spondylitis & role of Physiotherapy in Osteo-arthritis, Rheumatoid arthritis, Gouty arthritis, ankylosing spondylitis | 20 Hrs |
|  | 16. Details of Tennis elbow, Golfer's elbow, Tenosynovitis, Plantar fascitis & role of Physiotherapy in Tennis elbow, Golfer's, elbow Tenosynovitis, Plantar fascitis.                                  | 10 Hrs |

## Details of Curriculum for Second Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory   | Topics  | Hours. |
|--|---|--------|
| <b>1. Physiotherapy in Orthopaedics, Neurological, Medical, Surgical &amp; Sports related conditions</b> | 17. Basics of Subluxation & dislocations of joints & role of Physiotherapy in Subluxation & dislocations of joints. | 20 Hrs |
|  | 18. Details of Osteoporosis, Osteomalacia & role of Physiotherapy in Osteoporosis, Osteomalacia.                    | 10 Hrs |
|  | 19. Details of PIVD & role of Physiotherapy in PIVD.  | 10 Hrs |
|  | 20. Details of Spondylolisthesis & role of Physiotherapy in Spondylolisthesis.                                      | 05 Hrs |
|  | 21. Various types of sprains & strains & their basic principle of management.                                       | 15 Hrs |
|  | 22. Details of CTEV & role of Physiotherapy in CTEV.  | 05 Hrs |
|  | 23. Details of Scoliosis, lordosis, Kyphosis & role of Physiotherapy in Scoliosis, lordosis, Kyphosis.              | 05 Hrs |
|  | 24. Basic idea of Genu/ cubitus varum, Genu/cubitus valgum,   | 05 Hrs |
|  | 25. Details of TB of Bone, Osteomyelitis & role of Physiotherapy in TB of Bone, Osteomyelitis.                      | 15 Hrs |
|  | 26. Splints & Prosthesis used in Orthopaedics.  | 30 Hrs |



## Details of Curriculum for Second Year Diploma in Physiotherapy Technician

| PAPER 2nd Theory                                 | Topics   | Hours. |
|--|--|--------|
| <b>2. Drugs used in Physiotherapy &amp; BLS.</b> | 1. Use of NSAIDs ,opioid analgesics.               | 10 Hrs |
|  | 2. Use of skeletal muscle relaxants.               | 03 Hrs |
|  | 3. Use of topical analgesics and muscle relaxants. | 02 Hrs |
|  | 4. Use of emergency drugs.                         | 15Hrs  |

| PAPER 2nd Theory  | Topics                      | Hours. |
|---|-----------------------------|--------|
| <b>3. Basic biomedical engineering physics of machines used in physiotherapy.</b> | 1. About USG machine        | 10 Hrs |
|   | 2. About TENS machine.      | 10 Hrs |
|   | 3. About IFT machine.       | 10 Hrs |
|   | 4. About Diathermy machine. | 10 Hrs |
|   | 5. About tread mill.        | 05Hrs  |
|   | 6. About infra red machine. | 05Hrs  |

Curriculum  
for  
Practical :- Second Year  
Diploma in Physiotherapy Technician

|                  | Topics   |
|------------------|--|
| <b>Practical</b> | 1. Hand on training on various types of electro-therapies. |
|                  | 2. Hand on training on various types of exercise therapy.  |
|                  | 3. IM Injection.   |
|                  | 4. IV Injection.   |
|                  | 5. SC Injection.   |
|                  | 6. Use of Infusion pump.                                   |
|                  | 7. Nebulisation.   |