



**EKLAVYA**

UNIVERSITY

ज्ञानप्राप्तये लक्ष्यसन्धानम्

Sagar Road, Damoh (M.P.), Bharat

01

**Eklavya University, Damoh (MP)**

**B.P.T. IV<sup>th</sup> Year**

**Syllabus 2022-23**

**School of Nursing & Paramedical Science**



**EKLAVYA**  
UNIVERSITY

ज्ञानं प्राचये लक्ष्यं संश्रयामहे  
Eklavya University, No. 10, Malviya Nagar, Jaipur, Rajasthan, India. Phone: 0141-2511111

School of Nursing and Paramedical  
Sciences

**SCHEME OF EXAMINATION: BACHELOR OF PHYSIOTHERAPY (B. P. Th.)**

**Fourth Year B. P. Th. Examination**

S.No.	Subject code	Subject	Internal		University Examination			Total
			Theory	Practical	Theory	External Viva	External Practical	
1	BPHSI20Y401	Community PT, Rehabilitation & Disability Prevention	20	-	80	-	-	100
2	BPHSI20Y402	Research Methodology & Biostatistics	20	-	80	-	-	100
3	BPHSI20Y403	Cardiothoracic Diseases and Surgeries	20	-	80	-	-	100
4	BPHSI20Y404	Physiotherapeutic in General, & Cardiothoracic Conditions	20	20	100	20	40	200
6	BPHSI20Y405	Sports Physiotherapy	20	20	100	20	40	200
8	BPHSI20Y406	Practical-PEthics, Management & Administration	-	100	-	-	-	100
9	BPHSI20Y407	Practical-Project Work	-	100	-	-	-	100
<b>Total Marks.</b>								<b>900</b>

N.B.- Viva marks will be added in theory marks along with internal assessment theory; candidate have to get min. 50% marks in theory and viva collectively for passing the examination.



**School of Nursing and Paramedical  
Sciences**

**Department of Paramedical**

**SYLLABUS**

**Bachelor of Physiotherapy (BPT)  
4½ YEAR DEGREE COURSE**

<b>Year</b>	<b>BPT 4<sup>th</sup> Year</b>
<b>Subject</b>	<b>Cardiothoracic Diseases and Surgeries</b>
<b>Time</b>	<b>100 hrs Theory</b>

<b>Course code</b>	<b>Cardiothoracic Diseases and Surgeries</b>	
<b>BPHSI20Y403</b>		
<b>Pre-requisite</b>	Nil	<b>Syllabus version</b>
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>1. To describe the human development &amp; maturation with special emphasis to sensory, motor, psychological &amp; social aspects and alteration during aging process.</li> <li>2. To acquire the skill of detection &amp; objective documentation of the Neurological, Musculoskeletal, cardiovascular &amp; pulmonary dysfunctions</li> <li>3. To acquire the skills to use on patients, the therapeutic currents, for Electro-diagnosis of sensory, &amp; motor dysfunction &amp; pain.</li> <li>4. To understand clinical features and management of carcinoma of lung.</li> </ol>		
<b>Course Outcome:</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to describe the human development &amp; maturation with special emphasis to sensory, motor, psychological &amp; social aspects and alteration during aging process.</li> <li>2. Students will be able to acquire the skill of detection &amp; objective documentation of the Neurological, Musculoskeletal, cardiovascular &amp; pulmonary dysfunctions</li> <li>3. Students will be able to acquire the skills to use on patients, the therapeutic currents, for Electro-diagnosis of sensory, &amp; motor dysfunction &amp; pain.</li> <li>4. Students will be able to understand clinical features and management of carcinoma of lung.</li> </ol>		
<b>Student Learning Outcomes (SLO):</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to demonstrate their ability to perform an appropriate assessment of the patient</li> <li>2. Students will be able to demonstrate their ability to perform a patient in the pre-hospital setting.</li> <li>3. Students will be able to perform physical exam for patients with medical complaints or signs and symptoms in the pre-hospital setting.</li> <li>4. Students will be able to formulate an appropriate treatment plan for patient.</li> </ol>		

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<b>Unit - 1</b>	<b>20</b>
<p>Brief idea of Anatomy and Physiology of Cardio- respiratory systems. Outline Aetiopathogenesis of Cardio-respiratory disorders, Investigations, Diagnostic, Differential diagnosis and principles of management.</p> <p>Cardio Vascular System Cardiac failure - Definition, Causes, Symptoms and Signs and Brief management of Cardiac failure. Rheumatic Fever - Definition, Brief description of Aetiology, Clinical features, Complication and Treatment. Congenital Heart Diseases: Classification and brief outline of diseases like ASD, VSD, PDA, Fallots's Tetralogy with complication. Ischemic Heart Disease - Aetiopathogenesis, Classification. Symptoms, Diagnosis and Medical and Surgical treatment.</p>	
<b>Unit - 2</b>	<b>20</b>
<p>Hypertension - Definition, Classification, Symptomatology, Complications and Treatment. Infective Endocarditic - Brief aetiopathogenesis, clinical features, Diagnosis and Treatment. Brief description of Deep Vein Thrombosis and Pulmonary embolism. Vascular Disease: Atherosclerosis, Burgers disease, Phlebitis etc.</p> <p>Respiratory System: (Respiratory diseases including diseases of chest wall). Chronic Bronchitis and Emphysema, Definition. Clinical features, and investigation, complication and treatment.</p> <p>Bronchial asthma: Definition, Aetiopathogenesis, clinical features, Diagnosis and Treatment.</p> <p>Pneumonia - Definition, Classification, clinical features, Complications and Treatment.</p>	
<b>Unit - 3</b>	<b>20</b>
<p>Tuberculosis: Aetiopathogenesis, clinical test of pulmonary tuberculosis, Diagnosis Complication &amp; Treatment. Lung abscess and Bronchiectasis - Definition, clinical features, Diagnosis and Treatment. Chest wall deformities- Describe various deformities of chest wall, its effect and Pulmonary diseases associated with it. Occupational Lung Diseases - Clinical features, Diagnosis and</p>	

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Treatment.	
<b>Unit - 4</b>	<b>20</b>
<p>Respiratory failure - Classification, Causes and Treatment. Cardiothoracic surgery Theory</p> <p>Introduction-types of incision, pre- and post-operative assessment, management and complications of cardio thoracic surgery and their management.</p> <p>Cardiac Surgery-Outline indication, contra indication, site of incision, pre- and post-Operative management and complications of the following: Valvotomy and Valve Replacement, Open heart surgery/ cardiac by pass surgery. Surgery of pericardium, Heart transplantation, Pacemaker, Coronary angioplasty, Balloon angioplasty and vascular surgery.</p>	
<b>Unit - 5</b>	<b>20</b>
<p>Thoracic Surgery: Outline clinical features and management of the following: fracture of ribs, Flail chest, stove in chest, Pneumothorax, Haemothorax, Lung contusion and Lacerration and injury to vessels and brounchus. Outline indications, contradiction, site of incision, pre- and post-operative management and complication of following- Lobectomy, Pneumonectomy, segentectomy, pleuro-pneumonectomy, Thoracoplasty, decortion, Tracheostomy. Outline clinical features and management of carcinoma of lung. Describe in detail the following procedure: management of endotracheal tubes, tracheal Suction, Weaning the patient from ventilator, Extubation and Post-extubation care. Describe the principles of cardio-pulmonary Resusciation, cardiac Massage, Artificial respiration, defibrillators and their use.</p>	
<b># Mode: Flipped Class Room, Case Discussion, Lectures.</b>	
<p><b>Reference Books :-</b></p> <ol style="list-style-type: none"> <li>1. Cardiothoracic Surgery: Recent Advances and Techniques- by Daniel Willson</li> <li>2. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine - By Douglas P. Zipes , Peter Libby</li> </ol>	

3. 3. Textbook of Interventional Cardiology Hardcover – by Eric J. Topol MD and Paul S. Teirstein MD

4. 4. Textbook of Pulmonary and Critical Care Medicine (vol 1 & vol 2) by SK Jindal

5. Principles of Respiratory Medicine - by Farokh Erach, Zarir Farokh Udwardia, Anirudh Kohli Udwardia 6. Davidson's Principles and Practice of Medicine, International Edition

**6. Text Books :-**

7. Murray & Nadel's Textbook of Respiratory Medicine – by Robert J. Mason MD 8. Bailey & Love's Short Practice of Surgery text book

8. Oxford Textbook of Fundamentals of Surgery- by William E. G. Thomas, Malcolm W. R. Reed, Michael G. Wya

9. Surgery by Nan.

10. 9. Short Practice of Surgery by Rain & Ritelife.

11. Russell, R.C.G. Short practice In Surgery Arnold, London

12. 11. Hicks- Research for Physiotherapists, Churchill Livingstone, London.

13. 12. Meenakshi. - First Course in Methodology of Research. Kalia Prakashan, Patiala.

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School of Nursing and Paramedical  
Sciences

Department of Paramedical

SYLLABUS

Bachelor of Physiotherapy (BPT)  
4½ YEAR DEGREE COURSE

Year	BPT 4 <sup>th</sup> Year
Subject	Physiotherapeutic in General & Cardiothoracic Conditions
Time	130 (100 Theory+30 parctical)hrs



<b>Course code</b>	<b>Physiotherapeutic in General &amp; Cardiothoracic Conditions</b>	
<b>BPHSI20Y404</b>		
<b>Pre-requisite</b>	Nil	<b>Syllabus version</b>
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>1. To prompt introspection and motivate students towards self-appraisal, goal-setting and problem solving.</li> <li>2. Familiarize students with negotiation techniques and importance of right attitude for better coordination and team building.</li> <li>3. Guide students to better drafting in creative and critical compositions.</li> <li>4. Help students review policies of global importance affecting corporate interactions.</li> </ol>		
<b>Course Outcome:</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to connect science and technology with society.</li> <li>2. Students will learn to prepare for Group Discussions and thus, be able to perform well in discussions, debates and interviews.</li> <li>3. Examine and analyze the complex nature and seriousness of the patient's condition or extent of injuries to assess the need for advanced emergency medical care, and perform complex medical care based on assessment findings of the patient's condition and/or situation.</li> <li>4. Demonstrate an increased depth and breadth of patient care in the prehospital setting by applying principles from evidence-based research in emergency medicine.</li> </ol>		
<b>Student Learning Outcomes (SLO):</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to demonstrate their ability to perform an appropriate primary/initial assessment of the ill or injured patient in the prehospital setting.</li> <li>2. Students will be able to demonstrate their ability to perform an appropriate secondary/focused history and physical exam of the trauma patient in the pre-hospital setting</li> <li>3. Students will be able to perform an appropriate secondary/focused history and physical exam for patients with medical complaints or signs and</li> </ol>		

<p>symptoms in the pre-hospital setting.</p> <p>4. Students will be able to formulate an appropriate treatment plan to include administration of IV fluids and/or pharmacological medications for the trauma patient in the prehospital setting.</p>	
<b>Unit - 1</b>	<b>20</b>
<p>Anatomical and Physiological differences between the Adult and Pediatric lung. Bedside assessment of the patient-Adult &amp; Pediatric. Investigations and tests – Exercise tolerance Testing – Cardiac &amp; Pulmonary, Radiography, PFT, ABG, ECG, Hematological and Biochemical Tests. Physiotherapy techniques to increase lung volume – controlled mobilization, positioning, breathing exercises, Neurophysiological Facilitation of Respiration, Mechanical aids - Incentive Spirometry, CPAP, IPPB. Physiotherapy techniques to decrease the work of breathing – Measures to optimize the balance between energy supply and demand, positioning, breathing re-education – Breathing control techniques, mechanical aids – IPPB, CPAP, BiPAP</p>	
<b>Unit - 2</b>	<b>20</b>
<p>Physiotherapy techniques to clear secretions – Hydration, Humidification &amp; Nebulisation, Mobilization and Breathing exercises, Postural Drainage, Manual techniques – Percussion, Vibration and Shaking, Rib Springing, ACBT, Autogenic Drainage, Mechanical Aids – PEP, Flutter, IPPB, Facilitation of Cough and Huff, Nasopharyngeal Suctioning. Drug therapy – Drugs to prevent and treat inflammation, Drugs to treat Bronchospasm, Drugs to treat Breathlessness, Drugs to help sputum clearance, Drugs to inhibit coughing, Drugs to improve ventilation, Drugs to reduce pulmonary hypertension, Drug delivery doses, Inhaled Nebulizers. Management of wound ulcers- Care of ulcers and wounds - Care of surgical scars U.V.R and other electro therapeutics for healing of wounds, prevention of Hyper granulated Scars Keoloids, Electrotherapeutics measures for relief of pain during mobilization of scars tissues. Physiotherapy in dermatology -Documentation of assessment, treatment and follow up skin conditions. U.V.R therapy in various skin conditions; Vitiligo; Hair loss;</p>	

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<p>Pigmentation; Infected wounds ulcers. Faradic foot bath for Hyperhydrosis. Care of anesthetic hand and foot; Evaluation, planning and management of leprosy-prescription, fitting and training with prosthetic and orthotic devices. Neonatal and Pediatric Physiotherapy – Chest physiotherapy for children, The neonatal unit, Modifications of chest physiotherapy for specific neonatal disorders, Emergencies in the neonatal unit.</p>	
<b>Unit – 3</b>	<b>20</b>
<p>Physiotherapy in Obstructive lung conditions. Physiotherapy in Restrictive lung conditions. Management of breathlessness. Pulmonary Rehabilitation. Physiotherapy following Lung surgeries.</p>	
<b>Unit – 4</b>	<b>20</b>
<p>Respiratory failure – Oxygen Therapy and Mechanical Ventilation. Introduction to ICU : ICU monitoring –Apparatus, Airways and Tubes used in the ICU - Physiotherapy in the ICU – Common conditions in the ICU – Tetanus, Head Injury, Lung Disease, PulmonaryOedema, Multiple Organ Failure, Neuromuscular Disease, Smoke Inhalation, Poisoning, Aspiration, Near Drowning, ARDS, Shock; Dealing with an Emergency Situation in the ICU. Burns management - Role of physiotherapy in the management of burns, post grafted cases- Mobilization and Musculo- skeletal restorative exercises following burns. Physiotherapy management following cardiac surgeries. Cardiac Rehabilitation. Physiotherapy management following Peripheral Vascular Disease (PVD).</p>	
<b>Unit - 5</b>	<b>20</b>
<p>Abdominal Surgeries - Management of Pulmonary Restorative Dysfunction following surgical procedures on Abdomen and Thorax. Management of Amputations following Diabetes, PVD - Prosthesis in amputations of lower limbs following ulcers and gangrenes. Physiotherapy intervention in the management of Medical, Surgical and Radiation Oncology Cases. Home program and education offamily members in patient care.. Physiotherapy in Obstetrics – Antenatal Care, Antenatal Education, Postnatal Care. Electrotherapy and Exercise Therapy measures for the re-education of Ano-Urethral sphincter. Treatment, Response to</p>	

exercise and Implications of Physiotherapy in the following disease conditions: Hypertension, Diabetes, Renal Failure and Obesity. Geriatrics: Problems in old age, role of physiotherapy in elderly.

**# Mode: Flipped Class Room, Case Discussion, Lectures.**

**Reference Books:-**

1. . Cash's text book of general medicine and surgical conditions for physiotherapist
2. Cash's text book of chest ,heart and vascular disorder for physiotherapist.
3. The brompton guide to chest physiotherapist – D.U GASKED (completed)
4. Physiotherapy of paediatrics – shepherd.

**Text Books :-**

5. Elements of paediatric physiotherapy by pamel, M.eckersly
6. Essential of cardiac – pulmonary physical therapy by Hillegas
7. Cardiac pulmonary symptoms in physical therapy practice Cohen's and Michael
8. Chest physiotherapy in Intensive care Unit by Mackenzie.

**LIST OF PRACTICALS-**

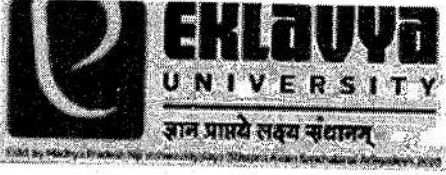
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1. Practical demonstration of basic principles of physiotherapy assessment, functional assessment and application of physiotherapy in cardio – respiratory, OBG, Skin, and other medical conditions.
2. Student must maintain a logbook. The duly completed logbook should be submitted during practical examination.

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School of Nursing and Paramedical  
Sciences

Department of Paramedical

SYLLABUS

Bachelor in Physiotherapy (BPT)  
4½ YEAR DEGREE COURSE

Year	BPT 4 <sup>th</sup> Year
Subject	Sports Physiotherapy
Time	100 (80 Theory+20 Practical) Hrs.

<b>Course code</b>	<b>Sports Physiotherapy</b>	
<b>BPHSI20Y407</b>		
<b>Pre-requisite</b>	Nil	<b>Syllabus version</b>
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>1. To prompt introspection and motivate students towards self-appraisal, goal-setting and problem solving.</li> <li>2. Familiarize students with negotiation techniques and importance of right attitude for better coordination and team building.</li> <li>3. Guide students to better drafting in creative and critical compositions.</li> <li>4. Help students review policies of global importance affecting corporate interactions.</li> </ol>		
<b>Course Outcome:</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to connect science and technology with society.</li> <li>2. Students will learn to prepare for Group Discussions and thus, be able to perform well in discussions, debates and interviews.</li> <li>3. Examine and analyze the complex nature and seriousness of the patient's condition or extent of injuries to assess the need for advanced emergency medical care, and perform complex medical care based on assessment findings of the patient's condition and/or situation.</li> <li>4. Demonstrate an increased depth and breadth of patient care in the prehospital setting by applying principles from evidence-based research in emergency medicine.</li> </ol>		
<b>Student Learning Outcomes (SLO):</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to demonstrate their ability to perform an appropriate primary/initial assessment of the ill or injured patient in the prehospital setting.</li> <li>2. Students will be able to demonstrate their ability to perform an appropriate secondary/focused history and physical exam of the trauma patient in the pre-hospital setting.</li> <li>3. Students will be able to perform an appropriate secondary/focused history</li> </ol>		

<p>and physical exam for patients with medical complaints or signs and symptoms in the pre-hospital setting.</p> <p>4. Students will be able to formulate an appropriate treatment plan to include administration of IV fluids and/or pharmacological medications for the trauma patient in the prehospital setting.</p>	
<b>Unit - 1</b>	<b>20</b>
<p>Pre-exercise evaluation. Diet and nutrition Measurement of fitness components and sports skills - Measurement of muscular strength, Measurement of muscular endurance, Measurement of flexibility, Determination exercise endurance.</p>	
<b>Unit - 2</b>	<b>20</b>
<p>Physiological effects of exercise on body systems - Muscular system, Endocrine system, Cardio-respiratory system, Nervous system.</p>	
<b>Unit - 3</b>	<b>20</b>
<p>Sports injuries – Spine: PIVD, Kissing spine, cervical whiplash injuries, facet joint syndrome, SI joint dysfunction, Hip – muscle strain, piriformis syndrome, ITB syndrome, osteitis pubis, Knee – menisci, cruciate, collateral, osteochondritis, chondromalacia patellae, biceps femoris tendonitis, swimmers knee, patello-femoral pain syndrome, Leg &amp; ankle – shin splint, achillis tendonitis &amp; rupture, TA bursitis, ankle sprain, plantar fasciitis, turf toe syndrome, Head &amp; face – maxillofacial injuries, helmet compression syndrome.</p> <p>Sports injuries Shoulder: instability, rotator cuff injury, biceps tendonitis and rupture, pectoralis major rupture, scapular dyskinesis and acromio-clavicular joint injuries, Elbow – tennis elbow, golfer’s elbow, Wrist and hand – carpal tunnel syndrome, gamekeeper’s thumb.</p>	
<b>Unit - 4</b>	<b>20</b>
<p>Principles of injury prevention. Principles of training &amp; Rehabilitation in sports injuries.</p>	
<b>Unit - 5</b>	<b>20</b>
<p>Sports in Special age groups: Female athletic triad, Younger athlete-</p>	

Musculoskeletal problems, management, children with chronic illness and nutrition. Older athlete- Physiological changes with aging, benefits, risks of exercise in elderly, exercise prescription guidelines for elderly.

# Mode: Flipped Class Room, Case Discussion, Lectures.

**References Books:-**

1. Morris B. Mellion: Office Sports Medicine, Hanley & Belfus.
2. Richard B. Birrer: Sports Medicine for the primary care Physician, CRC Press.
3. Torg, Welsh & Shephard: Current Therapy in Sports Medicine III - Mosby.
4. Zulunga et al: Sports Physiotherapy, W.B. Saunders.
5. Brukner and Khan: Clinical Sports Medicine, McGraw Hill.

**Text Books:-**

1. Morris B. Mellion: Office Sports Medicine, Hanley & Belfus.
2. Richard B. Birrer: Sports Medicine for the primary care Physician, CRC Press.
3. Torg, Welsh & Shephard: Current Therapy in Sports Medicine III - Mosby.
4. Zulunga et al: Sports Physiotherapy, W.B. Saunders.
5. Brukner and Khan: Clinical Sports Medicine, McGraw Hill.
6. Reed: Sports Injuries – Assessment and Rehabilitation, W.B. Saunders.
7. Gould: Orthopaedic Sports Physical Therapy, Mosby.
8. C. Norris: Sports Injuries – Diagnosis and Management for Physiotherapists, Heinmann.

**LIST OF PRACTICALS**

20

1. Practical demonstration of basic principles of physiotherapy assessment, functional assessment and application of sports physiotherapy
2. Student must maintain a logbook. The duly completed logbook should be submitted during practical examination.

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**School of Nursing and Paramedical  
Sciences**

**Department of Paramedical**

**SYLLABUS**

**Bachelor in Physiotherapy (BPT)  
4½ YEAR DEGREE COURSE**

<b>Year</b>	<b>BPT 4<sup>th</sup> Year</b>
<b>Subject</b>	<b>PT Ethics, Management &amp; Administration</b>
<b>Time</b>	<b>100 hrs Theory</b>

<b>Course code</b>	<b>PT Ethics, Management &amp; Administration</b>	
<b>BPHSI20Y408</b>		
<b>Pre-requisite</b>	Nil	<b>Syllabus version</b>
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>1. To prompt introspection and motivate students towards self-appraisal, goal-setting and problem solving.</li> <li>2. Familiarize students with negotiation techniques and importance of right attitude for better coordination and team building.</li> <li>3. Guide students to better drafting in creative and critical compositions.</li> <li>4. Help students review policies of global importance affecting corporate interactions.</li> </ol>		
<b>Course Outcome:</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to connect science and technology with society.</li> <li>2. Students will learn to prepare for Group Discussions and thus, be able to perform well in discussions, debates and interviews.</li> <li>3. Examine and analyze the complex nature and seriousness of the patient's condition or extent of injuries to assess the need for advanced emergency medical care, and perform complex medical care based on assessment findings of the patient's condition and/or situation.</li> <li>4. Demonstrate an increased depth and breadth of patient care in the prehospital setting by applying principles from evidence-based research in emergency medicine.</li> </ol>		
<b>Student Learning Outcomes (SLO):</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to demonstrate their ability to perform an appropriate primary/initial assessment of the ill or injured patient in the prehospital setting.</li> <li>2. Students will be able to demonstrate their ability to perform an appropriate secondary/focused history and physical exam of the trauma patient in the pre-hospital setting.</li> <li>3. Students will be able to perform an appropriate secondary/focused history</li> </ol>		

and physical exam for patients with medical complaints or signs and symptoms in the pre-hospital setting.

4. Students will be able to formulate an appropriate treatment plan to include administration of IV fluids and/or pharmacological medications for the trauma patient in the prehospital setting.

**Unit - 1**

**20**

History of physiotherapy, Ethical principles in health care.

Management & Administration: Planning health care services, Promoting & building a new hospital, Technology advances and high quality patient care, Hospital facilities, staff & services, Equipment planning and financial planning.

**Unit - 2**

**20**

Ethical principles related to physiotherapy, scope of practice, enforcing standards in health profession-promoting quality care. Professional ethics in research, education and patient care delivery. Informed consent issues.

Management & Administration: Hospital organization, operational plan and functional plan. Design development, planning and purchase. Organization and management of hospital. Planning and administrative services. Hospital information system.

**Unit - 3**

**20**

Medical ethics and economics in clinical decision-making. Rules of professional conduct: physiotherapy as a profession relationship with patients relationship with health care institutions relationship with colleagues and peers relationship with medical and other professional Concepts of morally ethics, and legally rules of professional conduct and their medico legal and moral implication. the need of council act for physiotherapy constitution and functions of the Indian association of physiotherapist Functioning of the world federations of physical therapy(wcpt) & its various branches. Rule of WHO & WCPT. Confidentiality and responsibility, malpractice and negligence, provision of services and, advertising, legal aspects: consumer protection act, legal responsibility of physiotherapist for their action in professional context and understanding liability and obligations in case of medico-

legal action. Management & Administration: Human resources management, Financial management, Nursing service administration, Public relations & marketing, Medical & ancillary services.	
<b>Unit - 4</b>	<b>20</b>
Major ethical principles applied to clinical practice in health care. Rules of professional conduct and scope of practice. Personal & professional standards & accreditation. Management & Administration: Planning & designing supportive services and hospital services. Safety & security of the institution. Disaster management & preparedness plan. Management studies related in local health care organization management and structure. planning delivery with quality assurance and finding of service delivery. Information technology in professional practical. Time management and carrier development in physiotherapy.	
<b>Unit - 5</b>	<b>20</b>
Laws and legal concepts – protection from malpractice claims, consumer protection act. Liability & documentation Management & Administration Administration principles based on the goals and function for large hospital setups, domiciliary service, private clinics and academic setups. Faculty planning – academic and clinical setups. Methods of maintaining records and documentation. Budget planning for physiotherapy services in various setups. Performance analysis physical structure reporting system (man power, status, function) quantity and quality of service turnover cost benefits and revenue contribution. Public relation and marketing reaching media marketing of physiotherapy practice and strengthening of brand identity with consumer and other health care professionals.	
<b># Mode: Flipped Class Room, Case Discussion, Lectures.</b>	
<b>Reference Books:-</b> 1. Managerial and supervisory principles for physical therapists by-hardcover,	

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2. Hospital administration and management: a comprehensive guide by gupta joydeep das
3. Textbook of medical administration and leadership by: loh, erwin, long, paulw., spurgeon, peter.

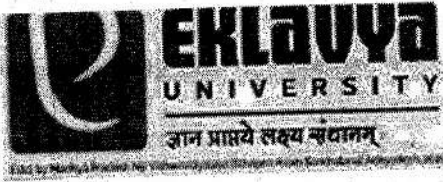
**Text Books:-**

4. Essentials of community physiotherapy & ethics by prof. (dr.) Rajendra Rajput.
5. Physical therapy ethics book by donald l. Gabard and mike martin
6. C. Norris: Sports Injuries - Diagnosis and Management for Physiotherapists, Heinmann.

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# School of Nursing and Paramedical Sciences

## Department of Paramedical

### SYLLABUS

#### Bachelor in Physiotherapy (BPT) 4½ YEAR DEGREE COURSE

<b>Year</b>	<b>BPT 4<sup>th</sup> Year</b>
<b>Subject</b>	<b>Project Work</b>

**Bachelor of Physiotherapy (B.P.Th.)**  
**Project work\*\*NUES**

100

**Course Objective-**

- Seminar-25 marks(5X5)
- Case Presentation -25 marks(5X5)
- Dissertation Work-50 marks
- 20 marks- presentation
- 20 marks dissertation work
- 10-marks viva

**Course objective:**

The student will be doing specific case studies allotted by their teacher/guide. Subject is for Case Presentations and evaluations.

Minimum 5- 10 cases are to be documented for discussion.

**EXAMINATION**

\*There will be no university examination. Students will be assessed on the basis of Viva on his/her project work and the awards

so secured by them will be sent to University

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### B.P.Th. INTERNSHIP GUIDELINES

- Candidates seeking entry to the internship period must have passed all examinations in all subjects (i.e. He/She must have secured total credits of the Programme).
- Duration: 6 months inclusive of posting in rural setup/CBR/similar setup.
- During the internship candidate shall have to work full time average 7 hours per day (each working day) for 6 Calendar months (total Credit hours – 1260).
- Each candidate is allowed maximum of 6 holidays during entire Internship Programme and in case of any exigencies during which the candidate remains absent for a period more than 6 days, he/she will have to work for the extra days during which the candidate has remained absent.
- Assessment: The interns/candidate shall maintain the record of work, which will be verified and certified by the Head of the Department under whom he/she works. Apart from scrutiny of the record of work, the Head of the Department shall undertake assessment and evaluation of training in attendance, discipline, knowledge, skills and attitude for the duration of training. The assessment report of the candidate shall be sent to the Parent institution.
- Based on the record of work and date of evaluation the Director/Principal shall issue \_Certificate of Satisfactory Completion\_ of training following which the University shall award the Bachelor of Physiotherapy Degree or declare the candidate eligible for the same.
- In the event of unsatisfactory report, the said intern shall have to repeat the internship for the period to be decided by the Head of the Institution concerned.
- Intern will abide by all the rules & regulations of Institution/Hospital where they are posted.
- Intern shall be responsible for proper use of equipments of the Institute/Hospital where they are posted. He/She shall be liable to pay for damages caused to the equipments resulting from improper use by him/her.
- **Internship duration can be extended by the Principal / Director on the grounds:**
  - i. Remaining absent in excess of the permitted 6 days leave period, which is due: An intern will compensate by working extra for each day leave taken.
  - ii. Unsatisfactory performance during the period: If there are unsatisfactory reports in terms of performance of the intern, submitted by the Department In-charge, the said intern shall have to repeat the internship for a period at least two months further.
  - iii. Case of indiscipline at any level: A Discipline and Action Committee will be formed in the college / Institution convened by Internship coordinator/HOD PT & headed by Director/Principal. In case of any lack of discipline, breach of trust or indulgence in any criminal activity on the part of the interns when reported by the concerned departments of Hospitals/Institutions where the interns have been posted, the defaulting Intern shall be called back immediately and subjected to disciplinary proceedings by the Disciplinary Action Committee.



#### iv. Punishments:

a. Suspension of Internship for a period of 3-4 weeks for the reasons to be recorded. Following this disciplinary suspension, internship can be resumed only after submission of an appropriate undertaking/guarantee/surety. Period of suspension shall be considered as Break in Internship. Disciplinary Action Committee shall decide the period of suspension and resumption of Internship for a specified period.

b. Rustication & Termination: In case of a serious complaint of indiscipline or breach of trust against intern or any criminal activity done by intern according to the law of the country, he/she may be rusticated along with termination of Internship. Hon'ble Court of Law can resume the Internship in this case only on the abrogation of criminal charges against him.

- Institution shall have to satisfy themselves that satisfactory infrastructure facilities of Physiotherapy exist in the Institute / Hospital where the internship training has to be undertaken. Following parameters / guidelines have been suggested:

a. It is mandatory for the Institution conducting BPT Programme to have its own Physiotherapy clinic fully furnished with all the necessary equipments as per the curriculum of the Programme.

b. The Institutes & the Hospitals should have the Physiotherapy section with all the necessary infrastructure facilities.

c. Senior Physiotherapist with sufficient clinical experience should manage the physiotherapy departments in the Institutes/Hospitals.

d. Institute Director / principal can at his discretion grant NOC to the students to do the Internship at the place of his choice provided, the concerned Hospital fully satisfies the above criteria. For the purpose of granting NOC the candidate shall have to submit to the Institution the status of Physiotherapy Services available at the place where he intend to do his Internship.

#### EVALUATION OF STUDENTS UNDER PRACTICAL/INTERNSHIP

S. No.	Description	Satisfactory/Unsatisfactory
1.	Attendance	
2.	Discipline and general behavior in the Department	
3.	Approach to patients	
4.	Inquisitiveness regarding the subject	
5.	Knowledge about evaluation of conditions	
6.	Knowledge about various therapeutic modalities	
7.	Knowledge about actual application of therapeutic skills	

*[Handwritten signatures and initials]*