

JHARKHAND RAI UNIVERSITY



Bachelor of Physiotherapy (BPT)

SIXTH SEMESTER SYLLABUS

Raja Ulatu | Namkum | Ranchi | Jharkhand

Web : www.jru.edu.in | Email : info@jru.edu.in

DEPARTMENT OF PHYSIOTHERAPY (BPT)

Duration: Four years Six months

Academic Year: 2023 – 2027

Syllabus

COURSE SCHEME

BATCH 2023-2027

BACHELOR OF PHYSIOTHERAPY

CHOICE BASED CREDIT SYSTEM

SEMESTER VI

S.No	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	T A	Total	ESE		
1	23A601	General Surgery with Obstetrics & Gynaecology	4	0	0	20	10	30	70	100	4
2	23A602	Physiotherapy in Orthopaedic Conditions	4	0	0	20	10	30	70	100	4
3	23A603	Physiotherapy in Cardiopulmonary Conditions	4	0	0	20	10	30	70	100	4
4	23A604	Medicine with Paediatrics & Geriatrics - II	3	0	0	20	10	30	70	100	3
5	23ADE05	Departmental Elective (Group - B)	2	0	0	20	10	30	70	100	2
6	40BPT.203	Leadership and Management Skills	2	0	0	20	10	30	70	100	2
PRACTICAL/SESSIONAL											
1	23A602P	Physiotherapy in Orthopaedic Conditions	0	0	4			30	20	50	2
2	23A603P	Physiotherapy in Cardiopulmonary Conditions	0	0	4			30	20	50	2
3	23A606P	PT Clinicals - II	0	0	16			30	20	50	8
									TOTAL	750	31

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: General Surgery with Obstetrics & Gynaecology
Course Code: 23A601

L	T	P	Credits
4	0	0	4

COURSE LEARNING OBJECTIVE

CLO 1: Describe the principles of resuscitation of the general surgery patient.

CLO 2: Participating in determining or confirming a diagnosis of pre & post-surgical cases.

CLO 3: Thorough preoperative evaluation and preparatory care & immediate postoperative and long-term follow-up care.

CLO 4: Demonstrate knowledge of established and evolving medical evidence and its application to the diagnosis and treatment of obstetric and gynecologic conditions and diseases.

COURSE OUTCOME

At the end of the course candidate will able to

CO1: Demonstrate comprehensive understanding of general surgery and female reproductive System.

CO2: Acquire the knowledge in surgeries that are required to be practiced in community and at all levels of the health care system.

CO3: Understand relevant investigations which will help to know about the important medical conditions.

UNIT 1: Wounds, Ulcers and Skin Infections: **Wound**-Definition, Types of wound, Basic phases of wound healing, Factors influencing wound healing, management of wound. **Ulcers:** Definition, Classification of ulcers. **Infection** of skin and subcutaneous tissue: Boil, Abscess. Carbuncle Cellulitis and Erysipelas-Definition, Pathology, Clinical Feature and Treatment. Shock and Fluid Electrolyte and Acid Base Balance: **Shock**-Definition, Types of Shock, Clinical management in different types of shock. Fluid, Electrolyte and Acid- Base balance-Physiology of body fluid, Exchange of fluid and electrolyte, Salt intake and output, Water balance, Electrolyte balance and Acid-Base balance, diagnosis and management.

UNIT 2: Burn and Skin Grafting: **Burn**- Definitions, Types of burn, Pathological Changes in burn cases, Complications and Management of burn. **Skin Grafting:** Indications, Methods of skin grafting and their procedure, Types of flaps and their uses. **Role of Physiotherapy.** Essentials of Surgery: Anaesthesia: Types of Anaesthesia and its effects on the patient. Incisions: Types of Incision, Clips, Ligatures and Sutures. Scars, fistula, Keloid. Surgical Techniques: Endoscopy–types, Biopsy – uses and types. Overview and Drainage systems and tubes used in Surgery.

UNIT 3: Infections and injuries of Hand: Hand infection, suppurative infection, other infection, hand injuries, Dupuytren's contracture. Miscellaneous Surgeries: Abdominal Surgeries. Cholecystectomy, Colostomy, Ileostomy. Gastrectomy, Hernias, Appendicectomy, Nephrectomy, Prostatectomy. Surgical oncology-Definition, Types, Clinical manifestation of cancer. Surgical procedures involved in

the management of cancer, Mastectomy. Emergency surgical Procedure: Tracheostomy, Indications Steps, Post-Operative Care.

UNIT 4: Basic Anatomy of Female Genital System and Pelvic Floor: Pelvis, Pelvic floor muscles, Perineum, Abdominal Muscles, Reproductive tract and Urinary Tract. Menstrual Cycle and Menopause: Menstrual Cycle: Phases of Menstrual Cycle, Structure and Role of Fallopian Tube, Ovaries, Disorders of Menstrual Cycle, Role of various female hormones , Hormonal Disorder of Female, Obesity and Female Hormones. Menopause: Physiology of Menopause, Complications, Effects on Various Systems and Management.

UNIT 5: Pregnancy and Labour: Normal Gestations, Maternal Physiology in Pregnancy, Effect of pregnancy on various systems of body, Musculoskeletal disorders in Pregnancy, Antenatal Care, Prenatal and Perinatal Complications in Pregnancy. Labour: Stages of Labour, Process of Normal Labour, Labour Pain, Management of Normal Labour, Complications in Labour, Puerperium, Lactation. Surgeries involving female Genital Organ: Procedure of Caesarian Section, Episiotomy, Definition, Indications and Management of the following surgical procedures, Dilatation and Curettage , Hysterectomy ,Total Abdominal and Vaginal Salpingectomy, Myomectomy and Oophorectomy.

UNIT 6: Uro-genital dysfunction: Uterine prolapse – classification & management (Conservative /Surgical) , Cystocele, Rectocele, Enterocele , Urinary Incontinence: Types, Causes, Assessment and Management, Pelvic Inflammatory Diseases ,Endometritis, Salpingitis, Polycystic Ovarian Disease (PCOD) .**Sterility and Family Planning:** Sterility: Causes of Sterility, Management .Family Planning: Methods of Family Planning, Fertilty regulating Methods-Advantages and Disadvantages, Oral Contaceptive Pills-Adverse Effect, Benefits and Contraindications.

Suggested Readings:

Text Books:

1. **S.Das, A Textbook of Surgery, Dr. Somen Das, Kolkota.**
2. Margaret Polden and Jill Mantle,Physiotherapy in Obstetrics and Gynaecology, Butterworth Heinemann Ltd.

Reference Books:

1. Williams Norman et al,Bailey & Love, Short Practice of Surgery,CRC Press.
2. D.C Dutta, Textbook of Gynaecology, Jaypee Brothers.
3. D.C Dutta, Textbook of Obstetrics, Jaypee Brothers.

Note: Latest editions of all the suggested books are recommended.

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: Physiotherapy in Orthopaedic Conditions
Course Code: 23A602

L	T	P	Credits
4	0	0	4

COURSE LEARNING OBJECTIVE

CLO1: Learn the essentials concerning performing a history and physical examination.

CLO2: Learn the principles of interpreting a plain radiograph (be able to recognize a fracture/dislocation).

CLO3: Recognize the historical symptoms of trauma patients.

CLO4: Know the evaluation strategy for the patient with traumatic injury.

COURSE OUTCOME

At the end of the course candidate will able to

CO1: Understand relevant investigations technique which will help to diagnosed various orthopedic conditions.

CO2: Integrate theoretical knowledge with clinical assessment.

CO3: Demonstrate clinical decision making ability and treat different musculoskeletal conditions.

UNIT 1: Fractures, dislocation and deformities: Principles of PT management in fractures - Guidelines for fracture treatment during period of immobilization and guidelines for treatment after immobilization period PT assessment and management of upper limb fractures and dislocations. PT assessment and management of lower limb fractures and dislocations including pelvis. PT assessment and management of spinal fractures. PT management in complications - early and late - shock, compartment syndrome, VIC, fat embolism, delayed and mal-union, RSD, myositis ossification, AVN, pressure sores etc. **Physiotherapy Management of deformities:** Congenital: CTEV, CDH, Torticollis, pes planus, pes cavus and other common deformities. Acquired: scoliosis, kyphosis, coxa vara, genu varum, valgum and recurvatum.

UNIT 2: Infectious, degenerative and inflammatory conditions: Infectious diseases of the bone & joints: Osteomyelitis – acute and chronic, Septic arthritis and Pyogenic arthritis, TB spine and major joints -knee and hip. **Degenerative and Inflammatory conditions:** Osteoarthritis - emphasis mainly on knee, hip and hand, Rheumatoid Arthritis, Ankylosing spondylitis, Gout, Perthes disease.

UNIT 3: Regional Orthopaedics-I: Spinal conditions: PT assessment, aims, and management and home program of the following conditions : Cervical spondylosis, Lumbar spondylosis, Intervertebral disc prolapse ,Spinal canal stenosis, Spondylolisthesis, Spondylolysis, Coccygodynia, Sacro-iliac joint dysfunction, Sacralisation, Lumbarisation

UNIT 4: Shoulder joint: Thoracic outlet syndrome, Shoulder instabilities, RSD, Periarthritis Shoulder, Rotator cuff Tears: Conservative and Post-Surgical PT Management, Impingement syndrome (Supraspinatus and Bicipital tendonitis) - conservative and Post-operative (sub-acromial

decompression) PT management, AC joint injuries- rehabilitation. **Elbow and forearm:** Tennis elbow, Golfer's elbow **Wrist and Hand:** Wrist sprains, De Quervain's Tenosynovitis, Trigger and Mallet finger, Repair of ruptured Flexor and Extensor tendons-Post operative PT management, Carpal tunnel syndrome, Hand injury- types and their management.

UNIT 5: Hip: Hip Joint surgeries - hemi and total hip replacement- Post operative PT management. **Knee:** ACL, PCL and MCL reconstruction surgeries -Post operative rehabilitation; Meniscectomy and meniscal repair - Post operative management; Pre patellar and Subacromial bursitis. PFPS, Plica syndrome, patellar dysfunction and Hoffa's syndrome etc. - conservative management; TKR- rehabilitation protocol; Patellar tendon ruptures and Patellectomy- rehabilitation. **Ankle and foot:** Ligamentous tears- Post operative management; TA rupture; plantar fasciitis

UNIT 6: Amputation: Definition, levels, indications, types, PT assessment, aims, management pre and post operatively. PT management with emphasis on stump care and bandaging. Prosthesis Prescription and Training.

Suggested Readings:

Text Books:

1. Jayant Joshi, Orthopaedic and applied physiotherapy, Elsevier India.
2. Brotzman, Clinical Orthopaedic Rehabilitation, Mosby.
- 3.

Reference Books:

1. David.J .Magee, Orthopaedic Physical Assessment, Saunders.
2. Freddy M . Kaltenborn, Manual Mobilization of extremity joints, Orthopaedic Physical Therapy.
3. Susasn B. Physical Rehabilitation Assessment and Treatment, FA Davis.

Note: Latest editions of all the suggested books are recommended.

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: Physiotherapy in Cardiopulmonary Conditions
Course Code: 23A603

L	T	P	Credits
4	0	0	4

COURSE LEARNING OBJECTIVE

- CLO 1:** Explain and classify common cardiovascular conditions, including diagnostic tests and therapeutic approaches.
- CLO 2:** Analyze factors leading to hypertension, as well as approaches useful in preventing and treating the condition.
- CLO 3:** Compare and contrast the various forms of shock and the basis of therapeutic interventions.

COURSE OUTCOME

At the end of the course candidate will able to

- CO1: Understand relevant investigations technique which will help to diagnosed various cardiothoracic conditions.
- CO2: Integrate theoretical knowledge with clinical assessment.
- CO3: Demonstrate clinical decision making ability and treat different respiratory and cardiac condition.

UNIT 1: Anatomical and Physiological differences between the Adult and Pediatric lung. Bedside assessment of the patient-Adult & Pediatric. Investigations and tests – Exercise tolerance Testing – Cardiac & Pulmonary, Radiography, PFT, ABG, ECG. Introduction to ICU: ICU monitoring –Apparatus, Airways and Tubes used in the ICU, Physiotherapy in the ICU – Common conditions in the ICU, Dealing with an Emergency Situation in the ICU.

UNIT 2: 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, BiPAP, PEP, Flutter.

UNIT 3 : 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, Physiotherapy techniques to clear secretions – Hydration, Humidification & Nebulisation, Mobilisation and Breathing exercises, Postural Drainage, Manual techniques – Percussion, Vibration and Shaking, Rib Springing, ACBT, Autogenic Drainage, Facilitation of Cough and Huff, Nasopharyngeal Suctioning.

UNIT 4: 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 Nebulisers.

Management of wound ulcers- Care of ulcers and wounds - Care of surgical scars, Burns management - Role of physiotherapy in the management of burns, post grafted cases- Mobilization and Musculo-skeletal restorative exercises following burns. U.V.R and other electro therapeutics for healing of wounds, prevention of Hypergranulated Scars Keloids, Electrotherapeutics measures for relief of pain during mobilization of scars tissues.

UNIT 5: Physiotherapy in dermatology -Documentation of assessment, treatment and follow up skin conditions. U.V.R therapy in various skin conditions; Vitiligo; Hair loss; Pigmentation; Infected wounds ulcers. Faradic foot bath for Hyperhidrosis. 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.

UNIT 6: Physiotherapy in Obstructive lung conditions, Physiotherapy in Restrictive lung conditions. Management of breathlessness. Pulmonary Rehabilitation. Physiotherapy following Lung surgeries. Respiratory failure – Oxygen Therapy and Mechanical Ventilation. Lung Disease, Pulmonary Oedema, Multiple Organ Failure, Neuromuscular Disease, Smoke Inhalation, Poisoning, Aspiration, Near Drowning, ARDS

UNIT 7: Cardiac Rehabilitation. Physiotherapy management following cardiac surgeries Physiotherapy management following Peripheral Vascular Disease (PVD). Abdominal Surgeries - Management of Pulmonary Restorative Dysfunction following surgical procedures on Abdomen and Thorax. Physiotherapy in the following disease conditions: Hypertension, Diabetes, Renal Failure and Obesity

Suggested Readings:

Text Books:

- 1 Cash`s Text book for Physiotherapists in Chest, Heart & Vascular diseases- Jaypee bros. Publication
- 2 Cash`s text book in General Medical & Surgical conditions for Physio therapists
- 3 Chest Physical therapy & Pulmonary rehabilitation-by Donna Frownfilter
- 4 Brompton`s hospital guide
- 5 Physical Rehabilitation - O`sullivan

Reference Books:

1. Physio Therapy in Cardio- Vascular rehabilitation-Webber
2. Exercise & the Heart –Wenger
3. ECG by P.J. Mehta,
4. J. Hampton (Hand book of ECG made easy)
5. Cardiopulmonary Physical therapy by Irwin Scott.
6. Physiotherapy in respiratory care – Alexandra Hough

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: Medicine with Paediatrics & Geriatrics-II
Course Code: 23A604

L	T	P	Credits
3	0	0	3

COURSE LEARNING OBJECTIVE

CLO 1: To impart knowledge and understanding of the various diseases & their symptomatology affecting human body for appropriated treatment and precautions whilst in physiotherapy setup.

CLO 2: Describe the signs and symptoms of the common acute pediatric illnesses

CLO 3: To understand the content differences in obtaining a medical history on a pediatric patient compared to an adult.

CLO 4: To develop an awareness of which clinical settings it is appropriate to obtain a complete medical history compared to a more limited, focused history.

COURSE OUTCOME

At the end of the course candidate will able to

- CO1:** Describe the etiology, patho-physiology, signs and symptoms and management in brief about the Skin diseases.
- CO2:** The ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self- evaluation and lifelong learning. To identify strengths, deficiencies, and limits in one's knowledge and expertise and set learning and improvement goals of Psychiatry conditions.
- CO3:** Describe the etiology, patho-physiology, signs and symptoms and management in brief about the metabolic and deficiency diseases.
- CO4:** An awareness of and responsiveness to the larger context and system of healthcare, as well as the ability to call effectively on other resources in the systems available to provide optimal healthcare in paediatrics & immunization and cardiac conditions.
- CO5:** Knowledge of established and evolving biomedical, clinical, and epidemiological as well as the application of this knowledge to patient care, through prevention, diagnosis, and treatment of infectious diseases.

UNIT 1: Diseases of Skin: Characteristics of normal skin, abnormal changes, types of skin lesions. Conditions – Leprosy, Acne , Boil, Carbuncles, Impetigo , Infections of skin, Herpes, Urticaria, Psoriasis, Skin disorders associated with circulatory disturbances, Warts, Com. Defects in Pigmentation Psoriasis Leucoderma, Fungal infections, Alopecia, Dermatitis Eczema, Skin –Allergies, Venereal.

UNIT 2: Psychiatry 1: Introduction: Definition, defense mechanism, symptomatology, types, causes of mental disorders, psychosomatic disorders. Disorders: Psychosis: Schizophrenia (including paranoid), manic depressive psychosis, involvement psychosis. Psychoneurosis: Anxiety, hysteria, anxiety states, neurostasis, reactive depression, obsessive compulsive

UNIT 3: Psychiatry 2: Neurosis: Organic reaction- toxins, trauma & infection. Senile dementia, Mental retardation: definitions, causes manifestation and management Therapies:-Psychotherapy – Group therapy, Psychodrama, behavior modification, family therapy, play therapy, psychoanalysis, hypnosis. Drug therapy, Electro convulsive therapy

UNIT 4: Paediatrics: Normal Growth and development of child: Motor, mental, language and social. Common infectious diseases in children: Brief description of following infectious diseases along with outline of management: Tetanus, diphtheria, Mycobacterial, measles, chicken pox, gastroenteritis, HIV and Malaria

UNIT 5: Immunization programmes: WHO schedule, different vaccinations, rationale; special consideration to various disease eradication programmes like Pulse-Polio. Child and nutrition :Nutritional requirements, malnutrition syndrome, Vitamins (A, B, C, D & K) and Minerals (iron, calcium phosphorus, iodine) deficiencies in children and management in brief. Clinical presentation, management & prevention of the following: Cerebral palsy, Poliomyelitis, Muscular dystrophy, Childhood rheumatism: Types, clinical presentation, & management in brief.

UNIT 6: Acute CNS infections: Clinical presentation, complications and management of bacterial and tubercular infections in brief. Clinical presentation, management & prevention of the following respiratory conditions: URI, LRI, bronchiolitis, asthma, TB, Clinical presentation, management & prevention of the following cardiac conditions: Rheumatic heart disease, SABA, Congenital heart disease - ASD, VSD, PDA

Suggested Readings:

Text Books:

1. Davidson, Principles and Practices of Medicine, Edward – Churchill Livingstone
2. Krishna Rao, A short Textbook of Medicine, Jaypee Brothers.

Reference Books:

1. Hutchinson's Clinical Methods, Swash- Bailliere Tindall.
2. Ahuja Niraj, A short textbook of Psychiatry, Jaypee Brothers.
3. Behrman & Vaughan, Nelson's Textbook of Paediatrics, W.B. Saunders.
4. Parthasarthy, Textbook of Paediatrics, Jaypee.

Note: Latest editions of all the suggested books are recommended.

Program: Bachelor of Physiotherapy (BPT)

Semester: Sixth

Course: Leadership and Management Skills

Course Code: 40BPT.203

L	T	P	Credits
2	0	0	2

Course Learning Objective:

The Module is designed to:

CLO1: Help students to develop essential skills to influence and motivate others.

CLO2: Inculcate emotional and social intelligence and integrative thinking for effective leadership.

CLO3: Create and maintain an effective and motivated team to work for the society.

CLO4: Nurture a creative and entrepreneurial mindset.

CLO5: Make students understand the personal values and apply ethical principles in professional and social contexts.

Course Outcome:

Upon completion of the course students will be able to:

CO1: Examine various leadership models and understand/assess their skills, strengths and abilities that affect their own leadership style and can create their leadership vision.

CO2: Learn and demonstrate a set of practical skills such as time management, self management, handling conflicts, team leadership, etc.

CO3: Understand the basics of entrepreneurship and develop business plans.

CO4: Apply the design thinking approach for leadership.

CO5: Appreciate the importance of ethics and moral values for making of a balanced personality.

Module 1- Leadership Skills

a. Understanding Leadership and its Importance

- What is leadership?
- Why Leadership required?
- Whom do you consider as an ideal leader?

b. Traits and Models of Leadership

- Are leaders born or made?
- Key characteristics of an effective leader
- Leadership styles
- Perspectives of different leaders

c. Basic Leadership Skills

- Motivation
- Team work

- Negotiation
- Networking

Module 2 - Managerial Skills

a. Basic Managerial Skills

- Planning for effective management
- How to organise teams?
- Recruiting and retaining talent
- Delegation of tasks
- Learn to coordinate
- Conflict management

b. Self Management Skills

- Understanding self-concept
- Developing self-awareness
- Self-examination
- Self-regulation

Module 3 - Entrepreneurial Skills

a. Basics of Entrepreneurship

- Meaning of entrepreneurship
- Classification and types of entrepreneurship
- Traits and competencies of entrepreneur

b. Creating Business Plan

- Problem identification and idea generation
- Idea validation
- Pitch making

Module 4 - Innovative Leadership and Design Thinking

a. Innovative Leadership

- Concept of emotional and social intelligence
- Synthesis of human and artificial intelligence
- Why does culture matter for today's global leaders

b. Design Thinking

- What is design thinking?
- Key elements of design thinking:
 - Discovery
 - Interpretation

- Ideation
- Experimentation
- Evolution.
- How to transform challenges into opportunities?
- How to develop human-centric solutions for creating social good?

Module 5- Ethics and Integrity

a. Learning through Biographies

- What makes an individual great?
- Understanding the persona of a leader for deriving holistic inspiration
- Drawing insights for leadership
- How leaders sail through difficult situations?

b. Ethics and Conduct

- Importance of ethics
- Ethical decision making
- Personal and professional moral codes of conduct
- Creating a harmonious life

Bibliography and Suggested Readings:

Books

- Ashokan, M. S. (2015). Karmayogi: A Biography of E. Sreedharan. Penguin, UK.
- Brown, T. (2012). Change by Design. Harper Business.
- Elkington, J., & Hartigan, P. (2008). The Power of Unreasonable People: How Social Entrepreneurs Create Markets that Change the World. Harvard Business Press.
- Goleman D. (1995). Emotional Intelligence. Bloomsbury Publishing India Private Limited.
- Kalam A. A. (2003). Ignited Minds: Unleashing the Power within India. Penguin Books India.
- Kelly T., Kelly D. (2014). Creative Confidence: Unleashing the Creative Potential Within Us All. William Collins.
- Kurien V., & Salve G. (2012). I Too Had a Dream. Roli Books Private Limited.
- Livermore D. A. (2010). Leading with cultural intelligence: The New Secret to Success. New York: American Management Association.
- McCormack M. H. (1986). What They Don't Teach You at Harvard Business School: Notes From A Street-Smart Executive. RHUS.
- O'Toole J. (2019) The Enlightened Capitalists: Cautionary Tales of Business Pioneers Who Tried to Do Well by Doing Good. Harpercollins.
- Sinek S. (2009). Start with Why: How Great Leaders Inspire Everyone to Take Action. Penguin
- Sternberg R. J., Sternberg R. J., & Baltes P. B. (Eds.). (2004). International Handbook of Intelligence. Cambridge University Press.

E-Resources

- Fries, K. (2019). 8 Essential Qualities That Define Great Leadership. Forbes. Retrieved 2019-02-15 from <https://www.forbes.com/sites/kimberlyfries/2018/02/08/8-essentialqualities-that-define-great-leadership/#452ecc963b63>.
- How to Build Your Creative Confidence, Ted Talk by David Kelly - https://www.ted.com/talks/david_kelley_how_to_build_your_creative_confidence.
- India's Hidden Hot Beds of Invention Ted Talk by Anil Gupta - https://www.ted.com/talks/anil_gupta_india_s_hidden_hotbeds_of_invention
- Knowledge@Wharton Interviews Former Indian President APJ Abdul Kalam - . "A Leader Should Know How to Manage Failure" <https://www.youtube.com/watch?v=laGZaS4sdeU>.
- Martin, R. (2007). How Successful Leaders Think. Harvard Business Review, 85(6): 60.
- NPTEL Course on Leadership - <https://nptel.ac.in/courses/122105021/9>.

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: Physiotherapy in Orthopaedic Conditions
Course Code: 23A602P

L	T	P	Credits
0	0	4	2

COURSE LEARNING OBJECTIVE

CLO 1: This subject will help in gaining the skill of Orthopaedics and clinical examination and interpretation of the preoperative old cases and all the Post-Operative cases.

CLO 2: Learn the principles of interpreting a plain radiograph (be able to recognize a fracture/dislocation).

CLO 3: Learn to take decision, making ability and treat different musculoskeletal conditions.

COURSE OUTCOME

At the end of the course candidate will able to

CO1: Identify, discuss & analyze, the Musculoskeletal Dysfunction in terms of Biomechanical, Kinesiology & Biophysical basis & correlate the same with the provisional diagnosis, routine radiological & Electrophysiological investigations & arrive at appropriate Functional diagnosis with clinical reasoning.

CO2: Plan & Prescribe as well as acquire the skill of executing short & long term Physiotherapy treatment by selecting appropriate modes of Mobilization / Manipulations, Electro-Therapy, Therapeutic exercise & appropriate Ergonomic advise for the relief of pain, restoration / Maintenance of function & rehabilitation for maximum functional independence in A.D.L. at home & work place.

1. PT assessment for Orthopedic conditions
2. SOAP format. Subjective -history taking, informed consent, personal, past, medical and socioeconomic history, chief complaints, history of present illness
3. Pain assessment- intensity, character, aggravating and relieving factors, site and location.
4. Objective- on observation, body built swelling, muscle atrophy, deformities, posture and gait.
5. On palpation- tenderness-grades, muscle spasm, swelling-methods of swelling assessment, bony prominences, soft tissue texture and integrity, warmth and vasomotor disturbances.
6. On examination –ROM – active and passive, resisted isometric tests, limb length-apparent, true and segmental, girth measurement, muscle length testing-tightness, Contracture and flexibility, manual muscle testing, peripheral neurological examination dermatomes, myotomes and reflexes, special tests and functional tests.
7. Investigations and tests of different clinical presentations
8. Physiotherapy management of the various disorders & surgeries
9. Practical demonstration of basic principles of physiotherapy assessment, functional Assessment and application of physiotherapy in orthopaedics conditions.
10. Prescription of home program. Documentation of case records, and follows up.
11. Clinical diagnosis of the presentations

Note: Student must maintain a logbook. The duly completed logbook should be Submitted during practical examination.

Program: Bachelor of Physiotherapy (BPT)
Semester: Sixth
Course: Physiotherapy in Cardiopulmonary Conditions
Course Code: 23A603P

L	T	P	Credits
0	0	4	2

COURSE LEARNING OBJECTIVE

- CLO 1:** This subject will help to execute effective Physiotherapeutic measure with appropriate clinical reasoning in cardiopulmonary patients.
- CLO 2:** This subject will help in gaining the skill of cardiopulmonary and clinical examination and interpretation of the preoperative old cases and all the Post-Operative cases.
- CLO 3:** To improve the healthcare for the patients with cardio-respiratory illness.

COURSE OUTCOME

At the end of the course candidate will able to

- CO1: Identify, discuss & analyze cardio-vascular & pulmonary dysfunction, based on Patho-physiological principles, & arrive at the appropriate functional diagnosis.
- CO2: Acquire the skill of evaluation & interpretation of functional capacity, using simple exercise tolerance tests, such as 6 minute walk test, symptom limited test.
- CO3: Execute the effective Physio Therapeutic measures [with appropriate clinical reasoning] with special emphasis to Breathing retraining, nebulization, humidification, bronchial hygiene, General mobilization, & Exercise conditioning
- CO4: Execute the effective Physio therapeutic measures with appropriate clinical reasoning to improve general surgical & medical condition.

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.

Note: Student must maintain a logbook. The duly completed logbook should be submitted during practical examination.

Program: Bachelor of Physiotherapy (BPT)

Semester: Sixth

Course: PT- Clinicals – II

Course Code: 23A606P

L	T	P	Credits
0	0	16	8

COURSE LEARNING OBJECTIVE

CLO 1: The student will learn approach to the patient, collection of demographic data, art of history taking and bed side/OPD manners in relation to patients.

CLO 2: The student will learn proper diagnosis of each conditions of patient.

CLO 3: The student will learn physiotherapeutic management of different cases in OPD.

1. The students will be posted in different departments in various setups. According to their planned curriculum.

2. Every student will be asked to maintain a separate logbook consisting of minimum thirty case histories.

3. Exam shall be conducted and student will be assessed according to:-

- Bedside case presentations and case discussions.
- Lab sessions consisting of evaluation and assessment methods on student models, treatment techniques and practice sessions.

Note: Student must maintain a logbook. The duly completed logbook should be submitted during practical examination.