

Kurdistan Region Government

Ministry of Higher Education and Scientific Research

Erbil Polytechnic University

**Module (Course Syllabus) Catalogue**

**2022-2023**

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| **College/ Institute**  | **Erbil Technical Health college** |
| **Department** | **Physiotherapy** |
| **Module Name** | **Medical-surgical Rehabilitation** |
| **Module Code** |  |
| **Degree** | **Technical Diploma Bachelor High Diploma Master PhD**/..q |
| **Semester** |  **1st**  |
| **Qualification** | **Master in Orthopaedics & Traumatology Surgery** |
| **Scientific Title**  |  |
| **ECTS (Credits)** |  |
| **Module type** | **Prerequisite Core Assist.** |
| **Weekly hours** |  |  |
| **Weekly hours (Theory)** | **( 2 )hr Class** | **( )Total hrs Workload** |
| **Weekly Hours (Practical)** | **( 4 )hr Class** | **( )Total hrs Workload** |
| **Number of Weeks** |  |
| **Lecturer (Theory)** | **Assist. lecture .Dr. Samih Kakamam Hassan** |
| **E-Mail & Mobile NO.** | **Dr.alkalhuri@epu.edu.iq 009647504467413** |
| **Lecturer (Practical)** | **Assist. lecture .Dr. Samih Kakamam Hassan** |
| **E-Mail & Mobile NO.** | **Dr.alkalhuri@epu.edu.iq** **009647504467413** |
| **Websites**  |  |

**Course Book**

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| **Course Description** | This course introduces the student to the integrated approach to the study of medical and surgical conditions with their complication. It is designed to provide students with the knowledge of basic surgical principles and theory, and nursing skills needed for practicing physiotherapy.  The course emphasizes the unique nature of clients’ needs and the importance of holistic physiotherapy care.Recognize the basic concepts of medical and surgical pathology. site standardized assessment tools and instruments for a patient with medical and surgical disorders.Recognize and interpret different clinical and radiological investigations for different medical and surgical disordersProduce a professional physical therapist with particular skills in evaluating different radiological findings. |
| **Course objectives** | At the end of this course, the students should be able to:Understand the types and complications of the medical and surgical condition that Developed. a rehabilitation program to the stage before, during, and after surgical interventions Identify biological and physical principles related to musculoskeletal system health and diseases, which underpin physical therapy Understand the relationship between human structures and function, focusing on the musculoskeletal system, cardiovascular and respiratory system. Recognize and interpret different clinical and radiological investigations for different **musculoskeletal disorders.** |
| **Student's obligation** | All students must be attended a minimum of 90% of class and take all exams on the date which the department select. |
| **Required Learning Materials**  | Lectures notes, videos, audios, platform-based conferences, homework exercises, homework correction and guidance, live consultation and problem-solving, self-study.Hall, projector. |
| **Evaluation** | ‌ **Task** | **Weight (Marks)** | **Due Week** | **Relevant Learning Outcome** |
| Paper Review  |  |  |  |
| Assignments | Homework | 5% |  |  |
| Class Activity | 2% |  |  |
| Report | 10% |  |  |
| Seminar | 10% |  |  |
| Essay |  |  |  |
| Project |  |  |  |
| Quiz | 8% |  |  |
| Lab. |  |  |  |
| Midterm Exam | 25% |  |  |
| Final Exam | 40% |  |  |
| Total |  |  |  |
| **Specific learning outcome:** | 1-Evaluate different medical and surgical cases according to the specific applied procedures. 2- Clarify the problems of each patient to design a suitable treatment plan.3-Apply different physical therapy modalities with the patient and select appropriate techniques for each case.4-Consider effective clinical diagnosis and investigations during medical and surgical patient management. 5-Apply understanding of radiology principles on demonstration of evidence-based practice. 6- Ability to apply knowledge in practice.7- Ability to make a reasoned decision. |
| **Course References‌:** | Orthopedic physical therapy 2nd Ed .Hand bookof fractures 6th edCardiorespiratory Physiotherapy: Adults and Paediatrics 5th EditionIntrnet  |
| **Course topics (Theory)** | **Week** | **Learning Outcome** |
| Definition of Medicine, medical patient, Symptoms of the Cardiovascular system: Cough, Causes, Classification, and symptom of coughs, Gastrointestinal symptoms | 1 |  |
| Edema: Causes and types of edema. Genitourinary system, Cause, and clinical features. | 2 |  |
| Definition of pain, causes and the types of the pain, Grade of the pain, Back pain, Causes, Risk factors, Managementm, Stiffness, Swelling, Change in sensibility, Weakness,deformity , Instability | 3-4 |  |
| Fractures - types, classification, signs, and symptoms, complications. Fracture healing –factors affecting fracture healing | 5 |  |
| Principles of fracture management - reduction signs and symptoms - open and closed, immobilization - sling, cast, brace, slab, traction, internal fixation, external fixation,  | 6-7 |  |
| Burns, Causes, clinical features and degreeof the burn, complicationsmanagement of the Burns.  | 8 |  |
| Definition of thepregnancy, signs and symptoms of pregnancy, stagesand Types of Pregnancies, Complications, contraindications, | 9 |  |
| Bedsores, sites, Causes, and stages of the bedsores, Risk factors, Complications, management, and Prevention of the Bedsores | 10 |  |
| Hip: Joint surgeries- Hemi and total hip replacement - Management | 11 |  |
| Knee joint replacement, Definition, Types, Indication, Goals of TKR, Contraindication, Postoperative care. Postoperative complications | 12 |  |
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| **Practical Topics**  | **Week** | **Learning Outcome** |
| Rehabilitationand Physiotherapy assessment forCardiovascular andrespiratory cases and Aims of PT management. | 1 |  |
| Rehabilitationand physiotherapy Gastrointestinal symptoms Edema, Genitourinary system- Guidelines forPTmanagement.. | 2 |  |
| Objective- on observation - body built swelling, muscle atrophy, deformities, posture and gait. On palpation- tenderness-grades, muscle spasm, swelling-methods of swelling assessment Guidelines forPTmanagement. | 3-4 |  |
| Physiotherapy assessment in fracture cases. Aims of PT management in fracture cases - short and long-term goals. Principles of PT management in fractures - Guidelines for fracture treatment during the period of immobilization and guidelines for treatment after the immobilization period.PT management in complications - early and late -compartmental syndrome, fat embolism, delayed and malunion, myositis ossificans, AVN, pressure sores, etc. | 5-6 |  |
| PT assessment and management of upper limb fractures and dislocations. PT assessment and management of lower limb fractures and dislocations including the pelvis | 7 |  |
| Burns Guidelines forPTmanagement of the Burns,eariy stage and late stage of rehabilitation | 8 |  |
| Hip: Joint surgeries- Hemi and total hip replacement -Postoperative PT management. | 9 |  |
| Describe PT assessment and management for Pregnancy  | 10 |  |
| Joint knee replacement - rehabilitation protocol. | 11 |  |
| PT management Bedsores | 12 |  |
|  **Questions Example Design****Questions Example Design****Q1-Choose the correct answer:****1-The greenstick fracture****A. the bone partly fractures on one side.****B. the complete fracture.****C. usually occurs in an adult.****D. the fracture is unstable** **E. All of the above is true.****Q2-. complete the following****A- ---------,------------ are types of a non-union of the bone.****Q3-filling the blanks?****1-The most common clinical features of the fractures are .****A-****B-****C-****D-****Q4-Quiz:** **1-The head of the femur articulates with the****A-Acetabulum B-fibulla C-glenoid cavity****Q5. Short essay****1-Enumerate the specific types of fractures****2-medical patient.****Q6- matching list A to list B****List A List B****Hematuria is dyspnoea lying flat.****orthopnea is the presence of blood in the urine.****Q6-Aaswer the following by True or Fales and corrects the false.****1- Growth hormone depress healing.T or F? False(enhances).** |
|  **Extra notes:** |
| **External Evaluator****C:\Users\sino\Desktop\bbb.JPG** |