



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil Technical Health College	
Department	Prosthetics and Orthotics	
Module Name	Clinical assessment and Human movement analysis	
Module Code	CAH 204	
Degree	Technical Diploma <input type="checkbox"/> Bachelor <input checked="" type="checkbox"/> High Diploma <input type="checkbox"/> Master <input type="checkbox"/> PhD <input type="checkbox"/>	
Semester	2 nd	
Qualification	Doctorate in Rheumatology & Master in Rheumatology and Medical Rehabilitation	
Scientific Title	1 st Assistant Lecturer	
ECTS (Credits)	5	
Module type	Prerequisite <input type="checkbox"/> Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>	
Weekly hours	4 hr	
Weekly hours (Practical)	(4)hr Class	(130)Total hrs Workload
Number of Weeks	12	
1 st Lecturer	Dr. Zekra Ali Aziz	
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Websites		

<p style="text-align: center;">Course Description</p>	<p>- This course introduces the student to recognize and contrast strategies for clinical assessment of patients and describe appropriate investigative techniques including patient history taking and physical examination.</p> <p>- The course will describe to students a temporospatial and kinematic characteristics of normal and pathological gait and use this information to justify the selection and design of appropriate devices.</p> <p>-This course will help the students to perform a general inspection of the patient, looking for clinical signs suggestive, performed the test necessary to identify dysfunction and to prove the joint stability for upper and lower limbs.</p> <p>-This foundation should lead to improved evaluation of muscle power and range of movement of upper and lower limbs as well as trunk – especially core stability.</p> <p>-Understanding and interpretation of result to formulate appropriate prescriptions for wide range clinical situations.</p>
<p style="text-align: center;">Course objectives</p>	<p>This course aims to promote and enhance student well-being in clinical assessment by accomplishing effective diagnosis, prognosis, and treatment planning.</p> <p>More specifically, the student is expected to perform the following:</p> <ol style="list-style-type: none"> 1. Identify normal of gait and developed competence for analysis gait deviation and critical events. 2. Identify and practice clinical assessment with neurological, orthopaedic cutaneous-trophic and complementary test to understand clinical conditions of patients and developing assessment strategies that are professional. 3. Identify a checklists and rating scales to evaluate joints of upper and lower limbs and ligaments. Learn how to measure range of motion and evaluate muscle power in human body to collecting information in numerical form. 4- Identify accurately care protocols, act as a framework for decision making and enable the incorporation of evidence-based clinical guidelines into practice to produce an optimum level of prosthesis or orthosis, based on an clinical assessed.
<p style="text-align: center;">Student's obligation</p>	<ul style="list-style-type: none"> • Reading and understanding of study notes • Participation in forum and discussions • Participation in active communication with the lecturer • Regular assignment submission • Lab required during

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, lab materials.					
Evaluation	Task		Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review					
	Assignments	Homework		10%	4 th & 8 th	4 & 5
		Class Activity		2%	All	
		Report				All
		Seminar		8%	10 nd	2 & 3
		Essay		8%	6 th	5 & 6
		Project				
	Quiz		8%	All		
	Midterm Exam		24%			
	Final Exam		40%			
Total		100%				
Specific learning outcome:	<p>1-Ability to develop general knowledge in Prosthetics and orthotics and understand the subjects of the module.</p> <p>2- Ability to understand and use, of general Clinical assessment in Prosthetics and orthotics</p> <p>3-Demonstrate the ability to think critically and solve problems.</p> <p>4- Ability to apply knowledge in practice.</p> <p>5- Ability to make a reasoned decision.</p> <p>6- Understanding of Clinical assessment to collecting information and drawing conclusions through the use of observation, specific tests to determine what the patient's problem is and identify dysfunction.</p>					
Course References:	<ol style="list-style-type: none"> Gait Analysis Techniques,Rancho Los Amigos Gait Laboratory,JoAnne K. Gronley and Jacquelin Perry,The Journal of American Physical Therapy Assn. Vol. 63, No. 12, December 1984 1831-1838 Critical factors leading to wound complications in amputated patients: low hematocrit levels Sinan Omeroglu1 , Ibrahim Demir2*, Metin O. Beyaz3 Reliability and concurrent validity of postural asymmetry measurement in adolescent idiopathic scoliosis, January 2017World Journal of Orthopaedics 8 					
Course topics (Practical)			Week	Learning Outcome		
L01 Patient in need of P&O services			1 st	1 & 2		

L02 Introduction to patient assessment		
L03 Patient documentation and assessment forms		
L04 Gait analysis I - Normal gait	2 nd	2
L05 Gait analysis II- pathological gait		
L06 Gait analysis III - Functional gait analysis	3 rd	3
L07 Gait analysis IV		
L08 Gait analysis V		
L09 Lower limb Range of Motion	4 th	4 & 5
L10 Lower limb manual muscle testing	5 th	4 & 5
L11 Upper limb and spinal ROM	6 th	4 & 5
L12 Upper limb and spinal MMT		
Midterm Exam		
L13 Special tests I	7 th	5 & 6
L14 Special tests II		
L15 Neurological patient assessment I	8 th	4 & 5
L16 Neurological patient assessment II – SCI		
L17 Basic interpretation of diagnostic imaging		
L18 Patients with lower limb amputation I	9 th	
L19 Patients with lower limb amputation II		
L20 Patients with upper limb amputations		
L21 Orthopaedic and trauma patients I	10 th	
L22 Orthopaedic and trauma patients II		
L23 Patients with spinal condition I		
L24 Patients with spinal condition II		
L25 Flaccid paralysis patients I	11 th	
L26 Flaccid paralysis patients II		

L27 Spastic paralysis patients I	12 th	
L28 Spastic paralysis patients II		

Final exam

Questions Example Design

Questions Example Design

Q.1) Choice the appropriate answer.

Which of the following is not including in the inspection part of the clinical assessments?

- A. Posture.
- B. Deformities.
- C. Sensitivity on pressure.
- D. Leg length discrepancy.

Answer: C

Q.2) Answer by true or false according to each statement.

1. One gait cycle is from heel strike to heel strike of the same leg.

Answer: T

Q. 3) Full the following blank by appropriate word.

1. The gait cycle is divided into ----- and ----- phases.

Answer: Stance an Swing

Extra Note

External evaluator