

Module (Course Syllabus) Catalogue 2023-2024

College/ Institute	Erbil Technical Health College	
Department	Physiotherapy	
Module Name	Evidence Based Physiotherapy	
Module Code	REM	
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	5 th	
Qualification	M.A. In Educational Psychology, and Ph.D. in Curriculum and Education	
Scientific Title	Lecturer	
ECTS (Credits)	5	
Module type	Prerequisite <input type="checkbox"/> Core <input checked="" type="checkbox"/> Assist. <input checked="" type="checkbox"/>	
Weekly hours	3hr	
Weekly hours (Theory)	(2)hr Class	()Total hrs Workload
Number of Weeks	12	
1 st Lecturer	Dr. Zhwan Dalshad Abdullah	
E-Mail & Mobile NO.	Zhwan.dlshad@epu.edu.iq	
2 nd Lecturer	Dr. Mahdi Khalid Qadir	
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3 rd Lecturer	Ghariba Ali	
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Course Book

<p>Course Description</p>	<p>The goal of this course is for students to acquire knowledge regarding what is research methodology, what are the types of research designs, steps in the research process: Identifying a research problem, Reviewing the literature, Specifying a purpose and research questions or hypotheses, Collecting either quantitative or qualitative data, Reporting and evaluating the research.</p>				
<p>Course objectives</p>	<p>The main objective of the Research methodology course would be that students will be able to:</p> <ul style="list-style-type: none"> - begin to conduct research. - read and evaluate research studies. - Identify the type of research designs associated with quantitative and qualitative, and Identify the characteristics of quantitative and qualitative research. - Distinguish between the types of research Variables. - Identify a problem that defines the goal of research - Gather data relevant to the research using the appropriate research instrument. -Identify the population and using sampling techniques to determine the sample size of the study. 				
<p>Student's obligation</p>	<ul style="list-style-type: none"> • Reading and understanding of study notes • Participation in forum, lab and class exercise and discussions • Seminar presentation • Participation in active communication with the lecturer • Regular assignment submission 				
<p>Required Learning Materials</p>	<p>Lectures notes, videos, audios, homework exercises, self-study, Hall, projector.</p>				
<p>Evaluation</p>	Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review				
	Assignments	Homework	10%	2 nd & 4 th	1,3,4,6,7
		Mini Project	8%	11 th	1,-10
		Report			
		Seminar	8%	12	9,10
		Essay			
		Class Activity	2%	All	All
	Quiz		8%	All	All
	Midterm Exam		24%		
Final Exam		40%			
Total		100%			
<p>Specific learning outcome:</p>	<p>1-Ability to develop general knowledge in Research Methodology and understand the subjects of the module.</p> <p>2- Ability to write problem statement using the keys.</p>				

	<p>3- Ability to locate the database and research studies to write a literature review, and following the appropriate writing style for citation and referencing.</p> <p>4- Ability to adapt or adopt the appropriate instrument to collect the data.</p> <p>5- Ability to develop the appropriate instrument to collect the data</p> <p>6- Ability to determine the appropriate sampling techniques based on research design.</p> <p>7- Ability to write the research objectives, questions, and hypothesis based on the purpose of research.</p> <p>8- Ability to describe outcome measures, apply outcome measure in Prosthetics and Orthotics, analyze and interpret results of outcome measures.</p> <p>9- Ability to write a discussion and conclusion of the study findings and the citations with referencing.</p> <p>10- Ability to present a research work in oral way, written formats, following general rules and principles.</p> <p>11- Ability to discuss the circumstances that have resulted in an emphasis on the use of evidence in practice.</p> <p>12- Ability to distinguish among definitions of evidence-based medicine, evidence-based practice, and evidence-based physical therapist (EBPT) practice.</p>
<p>Course References:</p>	<ul style="list-style-type: none"> • Main textbook - Study notes • Clinical Research Methodology.pdf • file:///C:/Users/High%20Tech/Downloads/Telegram%20Desktop/Rehabilitation_Research_Principles_and_Applications_Carter,_Russell.pdf • Foundations of Clinical Research Applications to Practice 3rd Edition Leslie G. Portney. https://www.semanticscholar.org/paper/Foundations-of-Clinical-Research%3A-Applications-to-Fapta-Ms/5fc8dfae713b16c2b81d203557f11b7a6ea6ce88 • References textbook and data (Journal, report, website and ETC.) • John W. Creswell, Planning, Conducting, and Evaluating Quantitative and Qualitative Research, 2012 • http://repository.unmas.ac.id/medias/journal/EBK-00121.pdf • Indrayan, Abhaya. 2012. Medical Biostatistics, Third Edition • CHAP T. LE. 2003. INTRODUCTORY BIOSTATISTICS, John Wiley & Sons http://www.hstathome.com/tjziyuan/Introductory%20Biostatistics%20Le%20C.T.%20%20(Wiley.%202003)(T)(551s).pdf • Anderson, C. TED Talks: The Official TED Guide to Public Speaking. Houghton Mifflin Harcourt 2016 • Ostler C, Scott H, Sedki I, Kheng S, Donovan-Hall M, Dickinson A, Metcalf C. From outcome measurement to improving health outcomes after lower limb amputation—A narrative review exploring outcome measurement from a clinical

practice perspective. Prosthetics and Orthotics International 2022; 46 (4):341-350

Additional Materials

- YK Singh - 2006. Fundamental of Research Methodology and Statistics
- <https://mfs.mkcl.org/images/ebook/Fundamental%20of%20Research%20Methodology%20and%20Statistics%20by%20Yogesh%20Kumar%20Singh.pdf>

Course topics (Theory)	Week	Learning Outcome
L01: Introduction to Research Methodology: Meaning of Research, Objectives of Research, Determinants of scientific methodology, , Types of Research, Research Methods v/s Methodology, Research Process, and Criteria of Good Research		1,2
L02: Problem Identification & Formulation: Concept and need, Identification of Research problem, defining and delimiting Research problem.		1,2
L03: Review of related literature: its implications at various stages of research (Formulation of research problem, hypothesis, interpretation and discussion of results). Purpose statements		3,4,7
L04: Research Variables, Research objectives, Research question, Research Hypotheses: directional and non-directional hypotheses, Hypothesis Testing		2,7
L05: Research Design I: Meaning of Research Design, Characteristics of Research Design, Steps in Research Design.		1, 6
L06: Research Design II		1, 6
L07: Instruments for Data Collection: Collections of Primary Data, Collection of Data through questionnaire and Schedules, other Observation Interview Methods, Collection of Secondary Data, Case Study, Focus Group Discussion, Techniques of developing research tools, Questionnaire and rating scales etc.		4,5
L08: Reliability and validity of Research tools.		4,5
L09: Sampling: Probability and Non Probability sampling- types and criteria for selection. I		6
L10: Types and criteria for selection. II		6

Writing Research Report: Major findings, Conclusions and suggestions.		
L11: Discuss the circumstances that have resulted in an emphasis on the use of evidence in practice.		11
L12: Distinguish among definitions of evidence-based medicine, evidence-based practice, and evidence-based physical therapist (EBPT) practice.		12
Final exam		
Questions Example Design Q.1)		
Extra Note		
External evaluator		