



CLINICAL MASTER PROGRAM IN REHABILITATION SCIENCES AT JUST (JUST – CRS)

COURSE INFORMATION PACKAGE (COURSE CATALOGUE)

COURSE INFORMATION

Course title	Code	Semester	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	National Credit	ECTS
Advanced			(Hours/ week)	(IIOurs/ week)	(Hours) week)	Credit	
theories and							
application in	CRS	II, III		_		2	_
motor learning	722	,	2	1	-		5
and motor							
control							
Prerequisites	None						
Course	English						
language	Eligiisii						
Course type	Elective	e					
Mode of							
delivery (face to face,	•	Blended					
distance	•	Face to face					
learning,							
blended)							
	•	Lectures					
Learning and	•	Discussion					
teaching	•	Preparing an	d Presenting an as	ssignment			
strategies	•	Online enviro	_	· ·			
Instructor (s)							
Course	The course is designed to present the advance theories, principles, and concepts that deepen						
description	the student knowledge and laboratory experiences in motor learning, control, and their						
acscription	application.						
			_	nd experience in the		_	_
		-		skill acquisition, po			
Course			•	topics include nerv	•		
objective				to motor learning, i	•		
	conditions for learning motor skills, preferred modes of feedback delivery during learning, and individual variability in motor skill acquisition.						
			•				
		•	s course, students		numans control m	ovement and	1
	 Understand various theoretical concepts of how humans control movement ar how new movements are learned and retained. 					overnent all	ı
	2- Understand factors that can affect the quality of movement performance and						
Learning	learning.						
outcomes	3- Understand the neurological and mechanical processes out of which complex						
	movement behaviors are created.						
	4- Application of these concepts to coaching, fitness, and therapeutic purposes in						
	rehabilitation settings.						



	5- Analyze motor learning settings and determine adjustments to be made in those settings to foster motor skill acquisition for a variety of populations.
Course Content	Motor control & learning
References	 Shamway Cook and Woollacott. Motor learning and motor control: translating research into clinical practice. 5th edition.

COURSE OUTLINE-WEEKLY

Topics (Theoretical and Practice – Lab & hands on skills)
Neuro plasticity
Application: Neuro plastisity and learning
Theories of motor control
Physiology of motor control
Postural control
Application: Postural control
Postural control abnormalities
Application: Postural control abnormalities
Control of upper extremity movement: reach, grasp and manipulation
Application of upper extremity movement: reach, grasp and manipulation
Midterm exam
Control of Walking
Application: Control of walking
Control of walking
Application: Control of walking
Application: Demonstration & Instruction
Theories of motor learning
Stages of motor learning
Application: Mass versus Distributive Practice
Clinical implications of motor learning and motor control in rehabilitation
Application: Clinical implications of motor learning and motor control in
rehabilitation
Clinical implications of motor learning and motor control in rehabilitation
Application: Clinical implications of motor learning and motor control in
rehabilitation
Final exam week

^{*}In accordance with the structure of the course, activities such as presentations, projects, seminars, and portfolios can be used in the evaluation system as a midterm exam.





ASSESSMENT METHODS

Course activities	Number	Percentage**
Attendance		
Laboratory		
Application		
Field activities		
Specific practical training		
Assignments	1	30
Presentation		
Discussion		
Project		
Seminar		
Portfolio		
Online environment*		
Midterms	1	30
Final exam**	1	40
Total		100
Percentage of semester activities contributing grade success	_	100
Percentage of final exam contributing grade success	_	
Total		100

WORKLOAD AND ECTS CALCULATION

Activities	Number	Duration (hour)	Total Work Load	
Course Duration (x14)	14	2	28	
Laboratory				
Application	14	1	14	
Specific practical training				
Field activities				
Study Hours outside the classroom context				
(Preliminary work, reinforcement, self-	14	3	42	
directed learning etc.)				
Presentation / Seminar Preparation	1	12	12	
Project				
Online environment	1	12	12	
Homework assignment	1	12	12	
Portfolio				
Midterms (Study duration)	1	12	12	
Final Exam (Study duration)	1	18	18	
Total Workload			150	





MATRIX OF THE COURSE LEARNING OUTCOMES VERSUS PROGRAM OUTCOMES

Program Outcomes		Contribution level*				
		1	2	3	4	5
1.	Design and implement autonomously a professional approach based on analysis of complex rehabilitation science knowledge					х
2.	Design, deliver and evaluate educational process adapted or customize to different inter-professional contexts (academic/professional/community) using an effective pedagogical approach					
3.	Provide and disseminate new evidence in accordance with research ethics using updated and integrated knowledge of research methods					
4.	Develop, manage and organize strategic planning and decision making within the scope of the quality assurance, ethical rules, team development and cooperation					
5.	Integrate health advocacy at an individual, community and policy levels to promote citizenship and inclusive development of communities					
6.	Communicates effectively within multidisciplinary clinical or scientific contexts, based on collaborative approach.		x			
7.	Plan, implement and advocate interdisciplinary healthcare services within deep understanding of health care systems to promote better networking, and comprehensive patient care.					

^{*1} Lowest, 2 Low, 3 Average, 4 High, 5 Highest