



# 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	
Research			(money money	(accuraç accura	(accord, accord	37333		
Methods in	CRS		2	4		2	_	
Rehabilitation	791	l	2	1		2	5	
Sciences								
Prerequisites	None							
Course language	English	1						
Course type	Manda	itory						
Mode of delivery								
(face to face,	•	Blended						
distance learning,	•	Face to face						
blended <b>)</b>								
Learning and	•	Online lectur						
teaching	•	Online lectur						
strategies	•	Online discus						
	•	Face to face,	online tutorials					
Instructor (s)								
Course		•	_	methodologies co	•			
description			ortunity to identi	fy research questio	ns and develop ap	opropriate		
•	protoc				1.00			
	This module aims to advance students' knowledge of rehabilitation research design and							
	research methods, through critical analysis of research in the field rehabilitation sciences. The							
Course objective	module will provide opportunities for students to explore and critique methodologies							
	commonly used to advance rehabilitation practice. Students will be given opportunities to							
	develop skills in conducting systematic literature reviews, critical appraisal, analyzing quantitative and qualitative data, research question development and design.							
	-			•		_		
	Critically examine the research process, including scientific and evidence based claims.							
	Understand and appriase statistical methods used in rehabilitation research.							
	3. Critically analyse a range of research methodologies and methods commonly used in							
	rehabilitation research.							
	4.	Explore and I	pe able to select f	rom different meth	ods of data collec	tion and ana	lysis	
Learning	<ul><li>4. Explore and be able to select from different methods of data collection and analysis</li><li>5. Critically discuss and be able to apply the legal and ethical frameworks for</li></ul>					•		
outcomes				ng human participa				
	6. Critically discuss and debate local and international contexts of rehabilitation research						search	
	7. Effectively locate sources of information using systematic search techniques a							
	these to develop coherent arguments							
	8. Justify choices of research methodology and their capacity to address specific							
		research que	stions					
Course Content	•	Theoretical p	erspectives of res	earch design and n	nethodology			





	<ul> <li>Legal and ethical frameworks of rehabilitation research.</li> </ul>					
	<ul> <li>Quantitative approaches to research design, data collection and analysis.</li> </ul>					
	<ul> <li>Qualitative approaches to research design, data collection and analysis</li> </ul>					
	<ul> <li>Systematic literature review methodology and practice.</li> </ul>					
	International contexts of research					
	Research proposal development.					
	1. Kielhofner, G. Research in occupational therapy, Renee R. Taylor PhD (Ed) FA Davis					
	Company Philadelphia 2017.					
	2. Designing Clinical Research" by Stephen B. Hulley, Steven R. Cummings, Warren S.					
	Browner, Deborah G. Grady, and Thomas B. Newman, 4th edition. Lippincott Williams					
	& Wilkins					
	3. Batavia, M. (2001). Clinical research for health professionals: A user-friendly guide.					
	Oxford: Butterworth-HeinemannMeltzoff, J. (1998).					
	4. Critical thinking about research. Washington: American Psychological Association.					
	5. Cochrane Handbook for Systematic Reviews of Interventions, 2008.					
	6. HornerJ, MinifieFD. Reserachethics I: Responsibleconduct of research(RCR) –					
	Historicaland Contemporany Issues pertainingto HumanandAnimalExperimental.					
	JournalofSpeechLanguage Hearing Research, 2011, 54:S303-S329					
	Other resources:					
	7. Reviews & systematic reviews - what the difference?					
	http://www.nlm.nih.gov/pubs/techbull/jf02/jf02_systematic_review s.HTML					
	8. PRISMA statement – guidelines parasystematicand metanalysis reviews					
References	http://prisma-statement.org					
	9. STARLITE- STAndards for ReportingLITEraturesearches					
	10. CONSORT guidelines for reportingclinical studies					
	11. STARD guidelines for reporting screening and diagnostic studies					
	12. Tidier guidelines: template for intervention description and replication (TIDieR)					
	13. Spirit guidelines					
	14. Pedro scale					
	15. CATs (CriticalAppraizedTopics)-Centreforevidencebased medicineat Oxford-http://					
	www.cebm.net					
	16. OpenAccess Journals - JSciMedCentral®openaccess platform					
	17. Freewares for data management- Mendeley - <a href="https://www.mendeley.com">https://www.mendeley.com</a> ; Zotero –					
	www.zotero.org					
	18. Equator website: <a href="http://www.equator-network.org/">http://www.equator-network.org/</a>					
	19. Online tutorials – for reportingresearch					
	http://www.kumc.edu/SAH/OTEd/jradel/effective.html					
	http://www.asha.org/about/events/convention/papers					
	http://www.missouri.edu/~writery					



#### **COURSE OUTLINE-WEEKLY**

Weeks	Topics
1.	Research paradigm and level of evidence
2.	Qualitative research methods
3.	Quantitative research methods
4.	Sampling concepts Nature of data in quantitative research
5.	Quantitative data collection instruments and measurement concepts
6.	Testing hypothesis in quantitative research
7.	Sources of errors in research (external validity of research)
8.	Research reporting
9.	Research reporting
10.	Critically appraise research report
11.	Putting into practice. –designing a study and writing a research proposal
12.	Research Ethics
13.	Research Governance frameworks
14.	Presentation
15.	Final exam week

<sup>\*</sup>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 (critically apprise 2 papers)	1	40		
Presentation				
Discussion				
Project (write research proposal)	1	60		
Seminar				
Portfolio				
Online environment*				
Midterms				
Final exam**				
Total		100		
Percentage of semester activities contributing grade success				
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 (online)	14	1	14	
Specific practical training				
Field activities				
Study Hours outside the classroom context				
(Preliminary work, reinforcement, self-	14	2	28	
directed learning etc.)				
Presentation / Preparation				
Project	1	44	44	
Online environment				
Homework assignment	1	36	36	
Portfolio				
Midterms				
Final Exam				
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						
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					Х	
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.						
7. Plan, implement and advocate interdisciplinary healthcare						
services within deep understanding of health care systems to						
promote better networking, and comprehensive patient care.						

<sup>\*1</sup> Lowest, 2 Low, 3 Average, 4 High, 5 Highest