



**CLINICAL  
REHABILITATION  
SCIENCES  
STUDENT  
HANDBOOK**

2017-2018



Co-funded by the  
Erasmus+ Programme  
of the European Union



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Co-funded by the  
Erasmus+ Programme  
of the European Union

Project Number: 573758-EPP-1-2016-1-JO-EPPKA2-CBHE-JP



Jordan University of Science and Technology  
Department of Rehabilitation Sciences

2017-2018 HANDBOOK

Clinical Rehabilitation Sciences Master Program



Co-funded by the  
Erasmus+ Programme  
of the European Union

JUST-CRS Master Program is funded by an EU Erasmus Plus Grant, The project is entitled “Establishment of an interdisciplinary Clinical rehabilitation sciences master program at JUST JUST-CRS)”

Project Reference Number “573758-EPP-1-2016-1-JO-EPPKA2-CBHE-JP”



## WELCOME MESSAGE

Dear JUST-CRS Graduate Students:

A warm welcome to you as a graduate student in this new master program of Clinical Rehabilitation Sciences at the Jordan University of Science and Technology.

As the best and brightest, you have the opportunity through your academic, clinical and research studies to strengthen the field of Rehabilitation Sciences nationally, regionally, and internationally. Dynamic partnership between experienced faculty, and enthusiastic and curious graduate students generates creativity, excitement, and innovation.

This handbook is intended to assist you by providing helpful information and reference material in a useful format. This handbook was developed to help inform you of the Clinical Rehabilitation Sciences policies, procedures and application information. We ask that you thoroughly read JUST university and Faculty of Graduate Studies (FGS) rules and regulations. Check your JUST email account frequently for important announcements, updates and information. If you have any questions contact your department.

We wish you enjoyable and successful years in this program as a future leader in rehabilitation sciences.

On behalf of JUST-CRS Team

Dr. Mohammad S. Nazzal (Project Coordinator)



## ABOUT THE PROGRAM

The interdisciplinary clinical master program in Rehabilitation Sciences (JUST-CRS ) provides opportunities for physiotherapists and occupational therapists to deepen their knowledge and skills in various specialized areas of clinical rehabilitation settings. This master program, additionally, prepares professionals to possess leadership role in rehabilitation services through combination of courses, clinical internship, and practice-based research project. This program is of a two-year duration entirely provided on full-time basis. Courses will emphasize advanced professional skills, advanced clinical evidence-based competencies as well as clinical research building capacities. Graduates will obtain the degree of Master in Clinical Rehabilitation Sciences that will be provided in an interdisciplinary manner.

JUST-CRS program emphasizes interdisciplinary clinical rehabilitation education for physical and occupational therapy professions. The program consists of 2 years (4 semesters minimum). The student has to complete 36 credit hours (which is equivalent to 120 ECTS in Europe). The program consists of 18 credit hours of compulsory courses, 9 credit hours of elective courses, and 9 credit hours of thesis.

JUST-CRS master's program is an European Union funded project through Erasmus Plus capacity-building in higher education program scheme. In this international project, JUST has partnered with three other top-notch European Institutions in the field of rehabilitation sciences as well as other two national institutions; Oxford Brooks University (UK), ESSA (Portugal), Hacettepe University (Turkey), The University of Jordan and The Hashemite University (Jordan).

In this project, expertise from all consortium partners are brought together to create an innovative interdisciplinary master's program that aims to address the national rehabilitation priorities, improve the quality of rehabilitation services and improve the quality of rehabilitation higher education in Jordan.

JUST-CRS program is intended to serve as a benchmark program in the region that produce competent rehabilitation sciences' professionals. The curriculum was created according to both Jordanian and European higher education standards; applying both Bologna Process and Jordanian Accreditation Commission for Higher Education standards

### PROGRAM VISION:

To achieve leadership at the local and regional level in education, training and scientific research in the field of rehabilitation sciences

### PROGRAM MISSION:

To prepare qualified graduates with scientific and practical expertise to meet the needs of the labor market in Jordan and the Arab World.



## PROGRAM EXPECTED COMPETENCIES

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

## QUALIFICATION AWARDED

Master of Science (MSc) Degree in Clinical Rehabilitation Sciences

## LEVEL OF QUALIFICATION

Jordan: 2nd Graduate Degree (Master's Level)

Europe: EQF-LLL: 7

## ACCREDITATION

JUST-CRS is accredited by the Jordanian Accreditation and Quality Assurance Commission for Higher Education Institutions on October 2017 (effective through 3 years).



## GRADUATION REQUIREMENTS

To successfully complete the requirement of the master degree, the student should:

- 1- Successfully passing the courses in the curriculum (36 credit hours). The passing grade for each course is C+, while the student should maintain a minimum GPA of 3.0. Minimum time spent by the student to complete requirements for a master's degree is three semesters excluding the summer semester and a maximum of 10 semesters excluding the summer semester. The student may postpone two semesters during the period of study.
- 2- Successfully complete the required clinical internships (4 credit hours).
- 3- Successfully complete the thesis requirement (9 credit hours) and defend the master thesis.
- 4- Proof of submission of manuscript prepared by students from the thesis research topic to international specialized journal indexed in Scopus or international conference indexed by Scopus with proof of follow-up of the guidelines of the journal or the conference.
- 5- Successful completion of all the language competencies required by the ministry of higher education.

Detailed [rules and regulations for master degree](#) is available on the university website. The students are advised to regularly communicate with their advisors for clarifications and monitoring of their progress.

## EXAMINATION REGULATIONS, ASSESSMENT AND GRADING

The final grade in each course is 4.3. The passing grade for each course is C+ while the student should maintain a minimum GPA of 3.0. Method of assessment will differ from course to another and will be determined based on the learning outcomes of each course.

Students final GPA will be classified based on the total average after completion of the courses and thesis as the following:

| Range of GPA | Score description |
|--------------|-------------------|
| 3.00 – 3.49  | Very Good         |
| 3.5 – 3.99   | Excellent         |
| 4.00 – 4.30  | Distinguished     |





## CURRICULUM COURSES

| Core Program Courses |  |              |      |                      |           |
|----------------------|--|--------------|------|----------------------|-----------|
| Course Number        | Course Title   | Credit Hours | ECTS | Weekly Contact Hours |           |
|                      |  |              |      | Theory               | Practical |
| CRS 711              | Advanced Theoretical Models of Practice in Rehabilitation Sciences | 3            | 12   | 2                    | 3         |
| CRS 712              | Applied Models in Rehabilitation Sciences                          | 2            | 10   | 2                    | 2         |
| CRS 741              | Educational Approaches in Clinical Rehabilitation Sciences         | 1            | 4    | 1                    | 1         |
| CRS 742              | Evidence-based Clinical Reasoning in Rehabilitation Sciences       | 1            | 5    | 1                    | 1         |
| CRS 743              | Clinical placement I   | 2            | 10   | 1                    | 6         |
| CRS 745              | Clinical placement II  | 2            | 10   | 1                    | 6         |
| CRS 751              | Advanced Management and Health Administration                      | 2            | 5    | 2                    | 1         |
| CRS 753              | Community Development Programs in Rehabilitation Sciences          | 1            | 4    | 1                    | 1         |
| CRS 791              | Research Methods in Rehabilitation Sciences                        | 2            | 5    | 2                    | 1         |
| CRS 793              | Applied Biostatistics  | 2            | 5    | 2                    | 2         |
| CRS 799              | Thesis   | 9            | 30   | 1                    | 18        |
| Total                |  | 27           | 90   | 18                   | 42        |



## CURRICULUM COURSES

| Elective Program Courses |   |              |      |                      |           |
|--------------------------|---|--------------|------|----------------------|-----------|
| Course Number            | Course Title  | Credit Hours | ECTS | Weekly Contact Hours |           |
|                          |   |              |      | Theory               | Practical |
| CRS 713                  | Psychosocial Aspects of Rehabilitation Sciences                       | 2            | 5    | 2                    | 1         |
| CRS 714                  | Health Promotion  | 2            | 5    | 2                    | 1         |
| CRS 722                  | Advanced Theories and application in Motor Learning and motor control | 2            | 5    | 2                    | 1         |
| CRS 724                  | Advanced Theories and Practice in Neurological Rehabilitation 1       | 2            | 5    | 2                    | 1         |
| CRS 725                  | Advanced Theories and Practice in Neurological Rehabilitation 2       | 3            | 5    | 2                    | 2         |
| CRS 731                  | Advanced Clinical Biomechanics  | 2            | 5    | 2                    | 1         |
| CRS 732                  | Clinical Exercise Physiology  | 2            | 5    | 2                    | 1         |
| CRS 733                  | Sports Rehabilitation   | 2            | 5    | 2                    | 1         |
| CRS 734                  | Ergonomics  | 2            | 5    | 2                    | 1         |
| CRS 736                  | Advanced Theories and Practice in Orthopedic Rehabilitation 1         | 2            | 5    | 2                    | 1         |
| CRS 737                  | Advanced Theories and Practice in Orthopedic Rehabilitation 2         | 3            | 5    | 2                    | 2         |
| CRS 755                  | Innovation and Emerging Technologies in Rehabilitation                | 2            | 5    | 2                    | 1         |
| CRS 756                  | Special Topics in Rehabilitation Sciences                             | 2            | 5    | 2                    | 1         |
| CRS 757                  | Vocational Rehabilitation   | 2            | 5    | 2                    | 1         |
| CRS 758                  | Global Health   | 2            | 5    | 2                    | 1         |

\* Students are encouraged to enroll in CRS724 and CRS725 for the Neurological track, or CRS736 and CRS737 for the Orthopedic track



## PROGRAM COMPETENCIES AND COURSES MATRIX

| Program Competencies  | Competencies tracks                                  | Course Number | Course Title  |
|---|--|---------------|---|
| Design and implement autonomously a professional approach based on analysis of complex rehabilitation science knowledge.  | Advanced Rehabilitation Sciences                     | 711           | Advanced Theoretical Models of Practice in Rehabilitation Sciences    |
|   |  | 712           | Applied Models in Rehabilitation Sciences                             |
|   |  | 713           | Biopsychosocial Aspects of Rehabilitation Sciences                    |
|   |  | 714           | Health Promotion  |
|   | Neurological Rehabilitation                          | 722           | Advanced Theories and Application in Motor Learning and Motor Control |
|   |  | 724           | Advanced theories and practice in Neurological Rehabilitation 1       |
|   |  | 725           | Advanced theories and practice in Neurological Rehabilitation 2       |
|   | Orthopedic Rehabilitation                            | 731           | Advanced Clinical Biomechanics  |
|   |  | 732           | Clinical Exercise Physiology  |
|   |  | 733           | Sports Rehabilitation   |
|   |  | 735           | Ergonomics  |
|   |  | 736           | Advanced theories and practice in Orthopedic Rehabilitation 1         |
|   |  | 737           | Advanced theories and practice in Orthopedic Rehabilitation 2         |
| Plan, implement and advocate interdisciplinary healthcare services within deep understanding of health care systems to promote better networking, and comprehensive patient care.<br><br>Communicates effectively within multidisciplinary clinical or scientific contexts, based on collaborative approach.<br><br>Design, deliver and evaluate educational process adapted or customize to different inter-professional contexts (academic/professional/community) using an effective pedagogical approach. | Clinical Skills                                      | 741           | Educational Approaches in Clinical Rehabilitation Sciences            |
|   |  | 742           | Evidence-based Clinical Reasoning in Rehabilitation Sciences          |
|   |  | 743           | Clinical placement I  |
|   |  | 745           | Clinical placement II   |
| Develop, manage and organize strategic planning and decision making within the scope of the quality assurance, ethical rules, team development and cooperation.<br><br>Integrate health advocacy at an individual, community and policy levels to promote citizenship and inclusive development of communities.   | Advanced Management, Community and Innovative skills | 751           | Advanced Management & Health Administration                           |
|   |  | 753           | Community Development Programs in Rehabilitation Sciences             |
|   |  | 755           | Innovation and Emerging Technologies in Rehabilitation                |
|   |  | 756           | Special Topics in Rehabilitation Sciences                             |
|   |  | 757           | Vocational Rehabilitation   |
|   |  | 758           | Global Health   |
| Provide and disseminate new evidence in accordance with research ethics using updated and integrated knowledge of research methods.   | Advanced Research Skills                             | 791           | Research Methods in Rehabilitation Sciences                           |
|   |  | 792           | Applied Biostatistics   |
|   |  | 799           | Thesis  |



## SAMPLE PLAN

| Semester        | Course Number          | Course Title   | Credit Hours (ECTS) | Total Credit Hours (Total ECTS) |
|-----------------|------------------------|--|---------------------|---------------------------------|
| First Semester  | CRS 711                | Advanced Theoretical Models of Practice in Rehabilitation Sciences | 3 (12)              | 9<br>(30)                       |
|                 | CRS 741                | Educational Approaches in Clinical Rehabilitation Sciences         | 1 (4)               |                                 |
|                 | CRS 791                | Research Methods in Rehabilitation Sciences                        | 2 (5)               |                                 |
|                 | CRS 751                | Advanced Management and Health Administration                      | 2 (5)               |                                 |
|                 | CRS 753                | Community Development Programs in Rehabilitation Sciences          | 1 (4)               |                                 |
| Second Semester | CRS 712                | Applied Models in Rehabilitation Sciences                          | 2 (10)              | 9<br>(30)                       |
|                 | CRS 793                | Applied Biostatistics  | 2 (5)               |                                 |
|                 | CRS 742                | Evidence-based Clinical Reasoning in Rehabilitation Sciences       | 1 (5)               |                                 |
|                 | Elective (Course #1) * |  | 2 (5)               |                                 |
|                 | Elective (Course #2)   |  | 2 (5)               |                                 |
| Third Semester  | CRS 743                | Clinical placement I   | 2(10)               | 9<br>(30)                       |
|                 | CRS745                 | Clinical placement II  | 2 (10)              |                                 |
|                 | Elective (Course #3)   |  | 2 (5)               |                                 |
|                 | Elective (Course #4) * |  | 3 (5)               |                                 |
| Fourth Semester | CRS 799                | Thesis   | 9 (30)              | 9<br>(30)                       |
| Total           |                        |  | 36 (120)            | 36 (120)                        |

\* For Electives 1 and 4, students are encouraged to enroll in CRS724 and CRS725 for the Neurological track, or CRS736 and CRS737 for the Orthopedic track



## COURSES DESCRIPTION & LEARNING OUTCOMES

### **CRS 711 Advanced Theoretical Models of Practice in Rehabilitation Sciences (3 Credit Hours, 12 ECTS):**

This course provides information about models and scope of practice, evidence based and interdisciplinary clinical reasoning, and facilitates reflection about the development of rehabilitation strategies according to the client and community needs in an interdisciplinary approach across the life span.

Students will be able to:

1. Demonstrate an understanding of models of practice when interacting with client/community and interdisciplinary team in a professional context.
2. Demonstrate an appropriate understanding of healthcare systems and other health professions' scope of practice to provide a comprehensive client care
3. Design client approaches in an evidence based and multifactorial clinical reasoning within interdisciplinary context.
4. Develop rehabilitation approaches client and community centered in collaboration with other professionals and stakeholders.
5. Apply advance knowledge and models of rehabilitation sciences in various conditions throughout lifespan

### **CRS 712 Applied Models in Rehabilitation Sciences (2 Credit Hours, 10 ECTS):**

This course provides the students with methods of using reliable and valid outcome measures and to comprehensively evaluate the rehabilitation patient needs. Students are prepared to plan and evaluate outcomes of a comprehensive treatment plan that are designed based on models of practice such as centered- client model or International Classification of Function, disability and Health (ICF) in interdisciplinary setting.

Students will be able to:

1. Demonstrate theoretical application of ethical standards and models of practice when interacting with an interdisciplinary team in professional context.
2. Analyze a healthcare need and apply rehabilitation strategies to meet need in collaboration with other professionals and stakeholders
3. Evaluate the role of government strategy, commissioners / budget holders, third sector / NGOs, family and managers and other gate keepers in implementing rehabilitation services
4. Apply advance knowledge of rehabilitation sciences in a health care.



### **CRS 713 Biopsychosocial Aspects of Rehabilitation Sciences (2 Credit Hours, 5 ECTS):**

This course provides a broad basis for determining the biological, psychological and social factors affecting disease progress and severity, and offers approaches to increase the success of the rehabilitation by the means of comprehensive and holistic approach.

Students will be able to:

1. Analyse the factors contributing to client's biopsychosocial circumstances.
2. Relate biopsychosocial factors to clinical conditions.
3. Perform differential diagnosis to design assessment and management methods based on biopsychosocial model using a comprehensive interdisciplinary approach.
4. Apply advance skills of rehabilitation strategies within interdisciplinary context.

### **CRS 714 Health Promotion (2 Credit Hours, 5 ECTS):**

The aim of the course is to deepen the student's understanding of various health promotion models that enable the student to describe a holistic definition of biopsychosocial determinants of health, working environment legislation, knowledge of theories and methods of interventions in health promotion on individual and groups and the risks associated with the working environment. Additionally students will be able to apply health promotion approaches in interdisciplinary rehabilitation settings.

Students will be able to:

1. Describe a holistic definition of biopsychosocial determinants of health.
2. Identify personal, social, cultural and physical environment factors in relation to risk behaviors and health inequalities
3. Describe working environment legislation relates to health promotion at work.
4. Demonstrate knowledge of theories and methods of interventions in health promotion on individual and groups.
5. Identify and describe concepts the problems assessment, planning, implementing for health education and promotion.
6. Define risk assessments for physical and psychosocial working environments
7. Apply health promotion approaches in interdisciplinary settings.



### **CRS 722 Advanced theories and application in motor learning and motor control (2 Credit Hours, 5 ECTS):**

This course will give students the opportunity to advance knowledge related to the theories and practices associated with motor skill development, acquisition, and performance. Movement analysis principles are used to explain the neuromotor control processes that are fundamental for skilled performance in everyday functional behaviors.

Students will be able to:

1. Understand various theoretical concepts of how humans control movement and how new movements are learned and retained.
2. Understand factors that can affect the quality of movement performance and learning.
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.

### **CRS 724 Advanced theories and practice in Neurological Rehabilitation I (2 Credit Hours, 5 ECTS):**

The course is designed to present advanced theoretical and practical aspects of neurological pediatric rehabilitation. Evidence-based information and practice for special and advanced pediatric cases will be provided. Clinical assessments, clinical reasoning, clinical therapeutic skills for the development of safe and effective rehabilitation programs and exercise prescription for children with neurological conditions will be included.

Students will be able:

1. Apply advanced knowledge of pediatric neurologic rehabilitation.
2. Describe and apply interdisciplinary principles and concepts in different pediatric rehabilitation settings.
3. Analyze the development, maturation, adaptation of child with neurological problems.
4. Develop assessment plan and intervention plan in different pediatric neurological conditions.
5. Critically appraise current scientific information to guide clinical decision making.
6. Apply effective clinical problem solving skills to the encountered problems



### **CRS 725 Advanced theories and practice in Neurological Rehabilitation II (3 Credit Hours, 5 ECTS):**

The course develops the existing knowledge of neurological rehabilitation theory and practice for adults to an evidence-based practice level. Advanced clinical assessment, clinical reasoning and clinical therapeutic skills to the development of safe, effective & specific rehabilitation programs and exercise prescription for adults with neurological disorders will be also included in the course.

Students will be able to:

1. Demonstrate deep understanding of neuroplasticity concepts underpinning functional recovery in the use of various neurological rehabilitative approaches.
2. Critically evaluate and discuss the use of interdisciplinary concepts in the settings of adults' neurological rehabilitation.
3. Critically evaluate and discuss the use of different outcome measures in the settings of adults' neurological rehabilitation.
4. Critically analyze and apply evidence for neurological rehabilitation approaches and techniques.
5. Demonstrate advanced skills to plan, implement and evaluate rehabilitation plans in a client-centered framework for people with neurological rehabilitation.

### **CRS 731 Advanced Clinical Biomechanics (2 Credit Hours, 5 ECTS):**

This course builds upon what students gained in the undergraduate study of describing and measuring human normal and abnormal movement. The course provides students the opportunity to study advanced techniques in the analysis of mechanical factors related to human movement and posture, and integrate their understanding of the neural control of such movement. This course explores the application of biomechanics to pathological disorders of musculoskeletal and neurological system.

Students will be able to:

1. Determine motions of the body during typical activities, and quantify the forces acting on the body during movement.
2. Use of innovative biomechanical acquisition and measurement methods during clinical practice.
3. Utilize the analytical skills necessary to perform a biomechanical analysis of human movement.
4. Develop and justify examination protocols based on an understanding of the biomechanics of the human body.
5. Perform a gait assessment including static and dynamic function and integrate research findings, with theoretical biomechanical knowledge to formulate an appropriate management plan.





### **CRS 732 Clinical Exercise Physiology (2 Credit Hours, 5 ECTS):**

The module aims to introduce students to the knowledge-based, clinical and practical skills necessary for planned and strategic management of safe effective exercise prescription for clinical groups.

Students will be able to:

1. Evaluate exercise capacity and limitations for physical activity in clinical populations, taking into consideration disease processes and methods to assess functional capacity.
2. Identify commonly used medications for specific clinical conditions and their effects on exercise capacity.
3. Apply concepts of exercise physiology to develop training programs for individuals with chronic conditions.
4. Develop and modify programs to coincide with limitations and capacities of individuals with chronic conditions.
5. Identify and explain the effects of muscle fatigue, overtraining, environmental factors, and nutrition on exercise programming for individuals with chronic conditions.

### **CRS 733 Sports Rehabilitation (2 Credit Hours, 5 ECTS):**

This course enables the students to design and perform evidence based clinical reasoning in the field of sport rehabilitation. Advanced clinical assessment and clinical therapeutic skills to the development of safe, effective rehabilitation programs and exercise prescription in sport rehabilitation settings will be introduced. The concept of evaluating social responsibilities associated with sport, exercise and society will be emphasized.

Students will be able to:

1. Design and perform client management using an evidence based and multifactorial clinical reasoning within interdisciplinary context.
2. Integrate both rehabilitation sciences and technology for the enhancement of patient outcomes.
3. Design and perform client management according to up to date scientific evidence and multifactorial clinical reasoning.
4. Facilitate and organize efficient interdisciplinary teamwork in accordance with the advanced management and organization strategies.
5. Comprehension the importance of sports injury.



### **CRS 734 Ergonomics (2 Credit Hours, 5 ECTS):**

This course will enable students to relate ergonomics into rehabilitation sciences by analyzing and modifying the effect of environment in occupational performance. Students will be able to relate the applicability of ergonomics in rehabilitation sciences, analyze the effect of the environment in occupational performance, describe the principles of adapting the environment to improve occupational performance, integrate ergonomics into their interventions in rehabilitation and develop innovative ergonomic solutions.

Students will be able to:

- 1- To relate the applicability of ergonomics in rehabilitation sciences.
- 2- To analyze the effect of the environment in occupational performance.
- 3- To describe the principles of adapting the environment to improve occupational performance.
- 4- To integrate ergonomics into their interventions in rehabilitation.
- 5- To develop innovative ergonomic solutions.

### **CRS 736 Advanced theories and practice in Orthopedic Rehabilitation I (2 Credit Hours, 5 ECTS):**

The course develops the existing knowledge of musculoskeletal rehabilitation theory and practice to an evidence-based practice level. The course provides advanced clinical assessment using valid and reliable outcome measures, and clinical reasoning, and differential diagnosis in interdisciplinary orthopedics rehabilitation. The course explores integration of patients' evaluation, and patients' prognosis and individualized rehabilitation needs.

Students will be able to:

1. Identify interdisciplinary rehabilitation needs for patients with upper quadrant disorders.
2. Critically apply measurements properties used in orthopedics rehabilitation to interdisciplinary clinical rehabilitation.
3. Evaluate examination findings to comprehensively establish patient's diagnosis, prognosis, and plan of care, demonstrating advanced clinical reasoning.
4. Justify the selection of outcome measures in patients' assessment, evaluation, and establishing treatment plan in a clinical interdisciplinary rehabilitation context.
5. Critically evaluate their previous practice in orthopedics rehabilitation
6. Design effective and comprehensive treatment plan based upon evidence-based practice.
7. Demonstrate proficiency in the performance of examination and treatment techniques for the cervical, thoracic, shoulder, elbow, wrist and hand regions to include a variety of manual therapy approaches.



### **CRS 737 Advanced theories and practice in Orthopedic Rehabilitation II (3 Credit Hours, 5 ECTS):**

This course build on what students have learnt in Advance Theories and Practice in Orthopedics Rehabilitation I. This course emphasize on establishing evidence-based comprehensive interdisciplinary treatment plan in orthopedics rehabilitation. The course explores therapeutic exercises, manual therapy techniques, and other clinical therapeutic skills drawn from scientific evidence for development of safe, effective, comprehensive and individualized rehabilitation programs.

Students will be able to:

1. Identify interdisciplinary rehabilitation needs for patients with lower quadrant disorders.
2. Construct individualized treatment plan using evidence-based clinical reasoning.
3. Contrast between different treatment approaches based on evidence and individuality of the case.
4. Design effective and comprehensive treatment plans based upon evidence-based practice and clinical classification
5. Apply the expected outcomes of variety of treatment interventions, including manual therapy techniques for the lumbar spine and lumbopelvic region, hip, knee, ankle and foot.
6. Demonstrate proficiency in the performance of examination and treatment techniques for the lumbar spine and lumbopelvic region, hip, knee, ankle and foot.

### **CRS 741 Educational Approaches in Clinical Rehabilitation Sciences (1 Credit Hour, 4 ECTS):**

This course provides the students with the opportunity to practice designing and delivering an educational process in inter-professional context. The course directs students to use effective professional communication skills as clinician and educator/supervisor role. The course trains students to customize learning and teaching in different environments and with different individuals (students, patients, the community, staff). Additionally the course will provide students with skills to use information and Communication Technologies (ICT) and Open Educational Resources (OER) effectively in the creation and delivery educational material. Professional clinical courses building including a full course portfolio building (lectures, exams, assignments, rubrics, and syllabus) will be introduced. Educational quality assurance techniques will be also discussed including checking learning outcomes fulfillment, students' feedback strategies, and exams analyses.

Students will be able to:

1. To explain contemporary interactive educational concepts and terms
2. To analyse and synthesize rehabilitation education strategies
3. To design an educational process in an inter-professional context.
4. To deliver an educational material in an inter-professional context
5. Customize learning and teaching in different environments and with different individuals
6. Demonstrate ability to use current online educational resources and create new ones upon need.



### **CRS 742 Evidence-based Clinical Reasoning in Rehabilitation Sciences (1 Credit Hour, 5 ECTS):**

This course focuses in enabling students to critically evaluate scientific information and integrate the best available evidence to clinical interdisciplinary practice. This course emphasizes the importance of using best current evidence in a lifelong practice. Application of clinical reasoning in evaluation, designing treatment plan, and application of plan of care will be emphasized in this course.

Students will be able to:

1. Generate research questions based on clinical scenarios (PICO).
2. Effectively and efficiently search scientific databases.
3. Critically appraise literature and differentiate the levels of evidence.
4. Establish evidence-based recommendations for the rehabilitation, derived from a methodological review of all sources of evidence.
5. Integrate the evidence- based practice approach in their clinical reasoning.
6. Create an intervention plan utilising multiple models of clinical reasoning to inform an evidence based approach to patient need

### **CRS 743 Clinical placement I (2 Credit Hours, 10 ECTS):**

The course provides clinical field work to increase knowledge, skills and attitudes of students in rehabilitation sciences within interdisciplinary context. The students through this course will be able to integrate advance knowledge and the skills to clinical field, to apply clinical models in designing rehabilitation program and to practice holistic and client centered models in patient management.

Students will be able to:

1. Apply advance knowledge of rehabilitation sciences for various conditions in clinical settings
2. Analyze and improve occupational performance and community participation (as applicable dependent on clinical placement setting and case mix)
3. Demonstrate ability of problem solving, clinical reasoning and reflection in clinical settings
4. Integrate both rehabilitation sciences and technology for the enhancement of patient outcomes
5. Effectively enforce and comply with safety considerations within the professional context



### **CRS 745 Clinical placement II (2 Credit Hours, 10 ECTS):**

The course provides clinical field work to increase knowledge, skills and attitudes of students in rehabilitation sciences within interdisciplinary context. The students through this course will be able to integrate advance knowledge and the skills to clinical field, to apply clinical models in designing rehabilitation program and to practice holistic and client centered models in patient management.

Students will be able to:

1. Apply advance knowledge of rehabilitation sciences for various conditions in clinical settings
2. Analyze and improve occupational performance and community participation (as applicable dependent on clinical placement setting and case mix)
3. Demonstrate ability of problem solving, clinical reasoning and reflection in clinical settings
4. Integrate both rehabilitation sciences and technology for the enhancement of patient outcomes
5. Effectively enforce and comply with safety considerations within the professional context

### **CRS 751 Advanced Management & Health Administration (2 Credit Hours, 5 ECTS):**

This course provides the students with advanced knowledge of models of management and health administration that allows them to demonstrate effective and efficient managerial decision making in all contexts of rehabilitation settings within a sound ethical framework. Course will also help the students to build their capacity in team development within an interdisciplinary context.

Students will be able to:

1. Identify models of management and health administration.
2. Classify national/international health management systems.
3. Develop strategic planning within the scope of quality assurance in the organization
4. Describe the decision making process in managerial situations/scenarios
5. Demonstrate skills in team development in interdisciplinary teamwork
6. Analyze and interpret ethical and managerial dilemmas



### **CRS 753 Community Development Programs in Rehabilitation Sciences (2 Credit Hours, 4 ECTS):**

This course will provide an opportunity to practice skills in promoting and increasing awareness of rehabilitation professional services to community. The course will also help the students to demonstrate skills in conducting a need assessment in the access to services for vulnerable groups in the community as well as designing, implementing and monitoring intervention plans for inclusive development of community.

Students will be able to:

1. Critically appraise national legislations and national/international policies related to health and disability
2. Practice skills in promoting and increasing awareness of rehab professional services to community practice systems and services
3. Demonstrate skills in conducting a need assessment in the access to services for vulnerable groups in the community
4. Design intervention plans for inclusive development of community
5. Demonstrate skills in implementing interventions for inclusive development of community in partnership with main stakeholders
6. Evaluate and monitor outcomes of interventions for inclusive development of community services and systems

### **CRS 755 Innovation and Emerging Technologies in Rehabilitation (2 Credit Hours, 5 ECTS):**

The course aims to get an overview of current novel tools used within the rehabilitative setting, and provide the basic understanding as to how to develop one's own innovative tools which can be used in clinical practice.

Students will be able to:

1. Recognize the emerging technology and innovations relevant to patient care and professional context
2. Critically appraise available technology based on benefits to the patient care/professional context
3. Critically appraise technology concerning costs and consequences for the health care system and patient management
4. Demonstrate the knowledge to design and construct a novel rehabilitative tool which assesses and translates the data into clinically relevant information
5. Measure the effects of technology implementation in patient care/professional context



### **CRS 756 Special Topics in Rehabilitation Sciences (2 Credit Hours, 5 ECTS):**

This course covers special topics of interest in rehabilitation sciences that are usually not fully covered in classical clinical teaching. This course discusses current emerging subspecialties in rehabilitation sciences and their fast growing role in health care.

Students will be able to:

1. Define special topics in rehabilitation sciences
2. Discuss special topics in rehabilitation sciences
3. Discuss the importance of emerging subspecialties in rehabilitation sciences
4. Interpret and evaluate the limited but important evidence relating to a special topic
5. Present current emerging special topics based on society needs of health care
6. Recommend generation of awareness groups depending on national/international needs.

### **CRS 757 Vocational Rehabilitation (2 Credit Hours, 5 ECTS):**

This course will enable students to select, modify and apply appropriate theories and models of practice in developing vocational rehabilitation approaches for person with diverse conditions. Overall the course will enable students to assess the barriers and plan as well as implement interventions for person with diverse conditions to access, maintain or return to employment.

Students will be able to:

- 1- Select and apply appropriate theories, models of practice and methods to guide the decision making process in vocational rehabilitation process.
- 2- Understand the factors that affect work ability and return to work.
- 3- Assess the barriers to access, maintain or return to employment
- 4- To plan appropriate vocational rehabilitation strategies to access, maintain or return to employment.
- 5- To implement appropriate vocational rehabilitation strategies to access maintain or return to employment.
- 6- To evaluate the vocational rehabilitation approach's outcomes





### **CRS 758 Global Health (2 Credit Hours, 5 ECTS):**

This course explores the complex relationships that drive and power global health development. The overall aim of the course is to equip students with the analytical and methodological skills to address the multifaceted challenges of global health whether they are in high-income or low-income countries. Subjects such as worldwide health improvement (including mental health), reduction of disparities, and protection against global threats that disregard national borders will be discussed. This course also aims to address the challenges posed by infectious and epidemiological diseases. The Course encourages adopting World Health Organization (WHO) publication and terminologies and integrating them in rehabilitation.

Students will be able to:

1. Define global health with specific consideration for rehabilitation.
2. Demonstrate understanding of the broader and interconnecting causes of the world's health problems.
3. Propose viable solutions through the knowledge of current perspectives and insights from a range of health and social sciences.
4. Propose a range of analytical and methodological skills to address the multifaceted challenges of global health in an ethically responsible manner.
5. Apply knowledge, handle complexity and exercise best judgments, individually and in groups, when faced with inevitable health challenges created by diverse settings by utilizing leadership and other key skills.
6. Independently plan and conduct a global health-related research project in a domestic or international setting and disseminate research findings accordingly.

### **CRS 791 Research Methods in Rehabilitation Sciences (2 Credit Hours, 5 ECTS):**

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 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.

Students will be able to:

1. Critically examine the research process, including scientific and evidence based claims.
2. Understand and appraise statistical methods used in rehabilitation research.
3. Critically analyze a range of research methodologies and methods commonly used in rehabilitation research.
4. Explore and be able to select from different methods of data collection and analysis
5. Critically discuss and be able to apply the legal and ethical frameworks for rehabilitation research involving human participants
6. Critically discuss and debate local and international contexts of rehabilitation research
7. Effectively locate sources of information using systematic search techniques and use these to develop coherent arguments
8. Justify choices of research methodology and their capacity to address specific research questions





### **CRS 793 Applied Biostatistics (2 Credit Hours, 5 ECTS):**

This module will enable the students to develop their skills in translating scientific questions into appropriate hypotheses, selecting and applying appropriate statistical methods, developing analysis plans, interpreting and critiquing research data from published literature and evaluate the significance or impact of public health research and interventions.

Students will be able to:

1. Translate scientific questions into appropriate hypotheses
2. Understand, select and apply appropriate statistical methods, develop analysis plans for use in rehabilitation research
3. Interpret and critique research data from published literature
4. Evaluate the significance or impact of rehabilitation research and interventions
5. Convey rehabilitation research results to non-scientific audiences in written and oral presentations

### **CRS 799 Thesis (9 Credit Hours, 30 ECTS):**

Thesis will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under supervision of a faculty member, the student will undertake a novel research project in a chosen area of clinical rehabilitation. The candidate must submit the completed thesis to a committee and successfully defend it according to the Graduate Studies regulations at Jordan University of Science and Technology.



## CLINICAL TRAINING

JUST-CRS program emphasizes interdisciplinary evidence-based clinical rehabilitation skills for physical and occupational therapy professionals. This emphasis is covered by 4 core courses as well as the students' choice of a professional track; orthopedic or neurological rehabilitation.

There are 2 clinical internships that students have to complete in order to graduate. Students will be given the chance to practice what they have learned throughout the program and apply these concepts in an interdisciplinary clinical environment. During the time of the grant (2017-2019), students will be able to complete their training for two months (one full month for each internship) in one of the clinical settings affiliated with the project consortium universities from Europe (United Kingdom, Portugal and Turkey).

The European Institutions in the consortium are: Oxford Brooks University (UK), ESSA (Portugal), and Hacettepe University (Turkey). Two other clinical training sites from Jordan (King Abdullah University Hospital and the University of Jordan Hospital) will also be used as training sites for the program.

For more information on each clinical site, please refer to the clinical sites' brochures.

For more information on the selection process for clinical training sites, please check with project coordinator (Dr. Mohammad Nazzal). Once you are selected for a site, please email the contact professor and coordinator at each university for more details.

For more information on the assessment methods and course requirements, please check the e-learning Moodle section of the clinical courses.



## CLINICAL SITES OF THE PROGRAM

Jordan University of Science & Technology (JUST)  
(Irbid, Jordan)  
[www.just.edu.jo](http://www.just.edu.jo)



Dr. Mohammad Nazzal [msnazzal@just.edu.jo](mailto:msnazzal@just.edu.jo)  
Dr. Hanan Khalil [hwkhalil8@just.edu.jo](mailto:hwkhalil8@just.edu.jo)

**King Abdullah University Hospital**





Co-funded by the  
Erasmus+ Programme  
of the European Union

Project Number: 573758-EPP-1-2016-1-JO-EPPKA2-CBHE-JP



Oxford Brooks University (OBU)  
(Oxford, UK)  
[www.brookes.ac.uk/](http://www.brookes.ac.uk/)



Prof. Helen Dawes [hdawes@brookes.ac.uk](mailto:hdawes@brookes.ac.uk)

NHS Trust



**Centre for Movement,  
Occupational and Rehabilitation  
Sciences**





The Alcoitão School of Health (ESSA)  
(Lisbon, Portugal)  
[www.essa.pt/portal/en/](http://www.essa.pt/portal/en/)



Prof. António Alves Lopes: [aalopes@essa.pt](mailto:aalopes@essa.pt)  
João Paulo Rodrigues: [joaoprodrigues@essa.pt](mailto:joaoprodrigues@essa.pt)

**Centro de Medicina de  
Reabilitação de Alcoitão**



**Hospital de Sant'Ana**



**Unidade de Cuidados  
Continuados**







Hacettepe University (HU)  
(Ankara, Turkey)  
<http://www.sbf.hacettepe.edu.tr>



Prof. Ayse Karaduman: [aykaradu@hacettepe.edu.tr](mailto:aykaradu@hacettepe.edu.tr)

**Physical and Occupational  
Therapy Clinics at Hacettepe  
University**



University of Jordan (JU)  
(Amman, Jordan)  
[ju.edu.jo/home.aspx](http://ju.edu.jo/home.aspx)



Prof. Ziad Hawamdeh: [z.hawamdeh@ju.edu.jo](mailto:z.hawamdeh@ju.edu.jo)

**Jordan University Hospital**





## RESEARCH THESIS

Thesis will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under supervision of a faculty member, the student will undertake a novel research project in a chosen area of clinical rehabilitation. The candidate must submit the completed thesis to a committee and successfully defend it according to the Graduate Studies regulations at Jordan University of Science and Technology.

## THESIS RULES AND REGULATIONS

Students are highly encouraged to thoroughly read the rules and regulations of the Deanship of Graduate Studies concerning thesis [process](#) and format.

For more information about the degree requirements from faculty of graduate studies at JUST, please check the following link:

<http://www.just.edu.jo/FacultiesandDepartments/FacultyofGraduateStudies/Pages/Degree-Requirements.aspx>



## ACADEMIC AND RESEARCH STAFF

Students need to check the profiles of JUST-CRS professors and choose an academic advisor whose academic, professional and research experience may fit the idea of research that the student is thinking of pursuing. According to the Graduate Studies regulations at Jordan University of Science and Technology, the main advisor of the student must be from JUST. Collaborative work between professors from different partner countries and across the two disciplines of occupational and physical therapy is highly encouraged.

Check the following table for the research interests of all JUST-CRS professors

| Institution           | Professor  | Email  | Research Interests  |
|-----------------------|--|--|---|
| JUST                  | Dr. Mohammad Nazzal  | <a href="mailto:msnazzal@just.edu.jo">msnazzal@just.edu.jo</a>               | Community integration of people with disabilities, Occupational participation, pediatric and neuro-developmental rehabilitation and qualitative research.   |
|                       | Dr. Hikmat Hadoush   | <a href="mailto:hmhadoush@just.edu.jo">hmhadoush@just.edu.jo</a>             | Implementation of the sophisticated brain mapping and stimulation techniques in the field of Neurological rehabilitation.   |
|                       | Dr. Khader Almahdawi   | <a href="mailto:khader@just.edu.jo">khader@just.edu.jo</a>                   | Teaching and researching in the field of adults' physical dysfunctions particularly of neurological challenges, assistive technology, occupational stress, education, and accommodating individuals with special needs and integrating them in community. |
|                       | Dr. Hanan W. Khalil  | <a href="mailto:hwkhalil8@just.edu.jo">hwkhalil8@just.edu.jo</a>             | Neurological rehabilitation of Neurodegenerative diseases; their impacts on mobility outcomes and health-related quality of life with special focus on finding strategies to promote engagement in independent exercise programs in these populations.    |
|                       | Dr. Fidaa Al-momani  | <a href="mailto:falmomani@just.edu.jo">falmomani@just.edu.jo</a>             | Cross-cultural adaptation of Rehabilitation assessments and Geriatrics.   |
|                       | Dr. Mahmoud Alomari  | <a href="mailto:alomari@just.edu.jo">alomari@just.edu.jo</a>                 | Cardiopulmonary Physical Therapy rehabilitation.  |
|                       | Dr. Alham Shorman  | <a href="mailto:ejalshorman@just.edu.jo">ejalshorman@just.edu.jo</a>         | Multiple sclerosis, Parkinson's disease and sleep disorders.  |
|                       | Dr. Saddam Kanaan  | <a href="mailto:sfkanaan@just.edu.jo">sfkanaan@just.edu.jo</a>               | Orthopedic rehabilitation, sport injuries and lumbar spine surgeries.   |
|                       | Dr. Mohammad Yabroudi  | <a href="mailto:m.yabroudi@just.edu.jo">m.yabroudi@just.edu.jo</a>           | Orthopedic rehabilitation.  |
| Dr. Zakariya Nawasreh | <a href="mailto:zhnawasreh@just.edu.jo">zhnawasreh@just.edu.jo</a> | Orthopedic rehabilitation.   |   |
| UJ                    | Dr. Ziad Alhawamdeh  | <a href="mailto:z.hawamdeh@ju.edu.jo">z.hawamdeh@ju.edu.jo</a>               | Physical medicine and rehabilitation.   |
|                       | Dr. Nihad Almasri  | <a href="mailto:n.almasri@ju.edu.jo">n.almasri@ju.edu.jo</a>                 | Neuromuscular pediatric conditions.   |
|                       | Dr. Alia alghwiri  | <a href="mailto:alia.alghwiri@gmail.com">alia.alghwiri@gmail.com</a>         | Vestibular rehabilitation, Neuropsychology, Cognitive Science, Rehabilitation Medicine  |
|                       | Dr. Somaya Malkawi   | <a href="mailto:somamalkawi@gmail.com">somamalkawi@gmail.com</a>             | Knee and hip osteoarthritis.<br>The biomechanics of different fundamental tasks.  |
| Dr. Jennifer Muhaidat | <a href="mailto:j.muhaidat@ju.edu.jo">j.muhaidat@ju.edu.jo</a>     | Geriatrics, dual tasking, cognitive motor interference, falls, low vision.   |   |
| HaU                   | Dr. Saad Al-Nassan   | <a href="mailto:saad@hu.edu.jo">saad@hu.edu.jo</a>                           | Exploring the effects of exercises on protein changes in the skeletal muscle during acute and chronic illness.  |
|                       | Dr. Mohammad Jebriil   | <a href="mailto:mohjebriil@hu.edu.jo">mohjebriil@hu.edu.jo</a>               | Occupational Therapy  |
|                       | Dr. Mohannad Hawamdeh  | <a href="mailto:mohannadhawamdeh@hu.edu.jo">mohannadhawamdeh@hu.edu.jo</a>   | Effect of physical therapy modalities in diseases and it's symptoms   |
|                       | Dr. Ziad Modhi   | <a href="mailto:zaid.modhi@hu.edu.jo">zaid.modhi@hu.edu.jo</a>               | Back pain<br>Joint pain<br>Brain MRI<br>Musculoskeletal injuries and pathologies  |
| Dr. Haifa Batarseh    | <a href="mailto:haifa@hu.edu.jo">haifa@hu.edu.jo</a>               | Occupational Therapy for Learning Difficulties                               |   |
| Hacettepe             | Prof. Ayşe Karaduman   | <a href="mailto:aykaradu@hacettepe.edu.tr">aykaradu@hacettepe.edu.tr</a>     | Paediatric neuromuscular diseases, neuromuscular rehabilitation, swallowing disorders   |
|                       | Prof. Sibel Aksu Yıldırım  | <a href="mailto:sibel.aksu@hacettepe.edu.tr">sibel.aksu@hacettepe.edu.tr</a> | Neurological Rehabilitation   |
|                       | Prof. Volga Bayrakçı Tunay   | <a href="mailto:volgamel@yahoo.com">volgamel@yahoo.com</a>                   | Sports Injuries and Rehabilitation.   |
|                       | Prof. Akmer Mutlu  | <a href="mailto:akmer@hacettepe.edu.tr">akmer@hacettepe.edu.tr</a>           | High risk infants, early intervention, general movements of preterm and term infants with Prechtl Analysis, children with cerebral palsy and other childhood disabilities and their rehabilitation.   |
|                       | Prof. Özlem Ülger  | <a href="mailto:ozlemulger@yahoo.com">ozlemulger@yahoo.com</a>               | Prosthetics, Orthotics and Biomechanics.  |
|                       | Prof. Deniz İnal İnce  | <a href="mailto:dince@hacettepe.edu.tr">dince@hacettepe.edu.tr</a>           | Cardiopulmonary Rehabilitation, Respiratory Therapy, Respiratory  |





|      |   |  |  |
|------|---|--|--|
|      |   |  | Physiotherapy, Intensive Care, Neonatal Physiotherapy, Exercise Physiology and Rehabilitation in Organ Transplantation.  |
|      | Prof. Tüzün Fırat                               | <a href="mailto:tuzun@hacettepe.edu.tr">tuzun@hacettepe.edu.tr</a>                       | Upper Extremity Musculoskeletal Problems, Brachial Plexus Injuries, Peripheral Nerve Lesions and Muscle Architecture.  |
|      | Prof. Hülya Kayhan                              | <a href="mailto:hkayihan@hacettepe.edu.tr">hkayihan@hacettepe.edu.tr</a>                 | Inter- disciplinary collaborations to promote participation with an emphasis on an ecological approach to understanding the challenges to participation from the person, task and environmental interfaces.  |
|      | Prof. Gonca Bumin                               | <a href="mailto:gbumin@hacettepe.edu.tr">gbumin@hacettepe.edu.tr</a>                     | Pediatric Occupational Therapy, Sensory Integration, Cognitive Rehabilitation, Ergonomics, Vocational Rehabilitation, Curriculum development and school based Occupational Therapy.  |
|      | Prof. Çiğdem Öksüz                              | <a href="mailto:coksuz@hacettepe.edu.tr">coksuz@hacettepe.edu.tr</a>                     | Outcome measures, Hand rehabilitation, Upper extremity rehabilitation, Orthopedic rehabilitation and Neurological rehabilitation.  |
| OBU  | Prof. Helen Dawes                               | <a href="mailto:hdawes@brookes.ac.uk">hdawes@brookes.ac.uk</a>                           | Exploring underlying mechanisms affecting performance through to service delivery of subsequently developed interventions and tools.   |
|      | Prof. Karen Barker                              | <a href="mailto:karen.barker@ndorms.ox.ac.uk">karen.barker@ndorms.ox.ac.uk</a>           | Rehabilitation post arthroplasty, Physiotherapy interventions and effect of service delivery models, Non- surgical management of chronic back pain, Limb lengthening and Clinical trials in rehabilitation of common musculoskeletal conditions.   |
|      | Dr. Patrick Esser                               | <a href="mailto:pesser@brookes.ac.uk">pesser@brookes.ac.uk</a>                           | Biomechanics; movement analysis in (non-) neurological conditions.   |
|      | Dr. Johnathan Collett                           | <a href="mailto:jcollett@brookes.ac.uk">jcollett@brookes.ac.uk</a>                       | control and measurement of movement, in particular gait, and applying this to neurological rehabilitation, exploring factors effecting fluid intake and evaluating therapeutic exercise interventions in people with neurological conditions, the design, conduct and reporting of clinical trials and is the group's good clinical practice (GCP) officer |
|      | Dr. Dido Green                                  | <a href="mailto:dido.green@brookes.ac.uk">dido.green@brookes.ac.uk</a>                   | Translational medicine and inter-disciplinary collaborations to promote participation with an emphasis on an ecological approach to understanding the challenges to participation from the person, task and environmental interfaces.  |
|      | Prof. Derick Wade                               |  | Measures of outcome, investigation of specific phenomena such as hysteria, and studies on the natural history of illness in disabling neurological conditions.   |
|      | Leisle Ezekiel                                  | <a href="mailto:leisle.ezekiel-2014@brookes.ac.uk">leisle.ezekiel-2014@brookes.ac.uk</a> | Fatigue after acquired brain injury  |
| ESSA | António Alves Lopes                             | <a href="mailto:antonioj.lopes@essa.pt">antonioj.lopes@essa.pt</a>                       | Physiotherapy in cardio-respiratory conditions   |
|      | Dr. Patricia Almeida                            | <a href="mailto:patricia.almeida@essa.pt">patricia.almeida@essa.pt</a>                   | Neurorehabilitation and brain activity and manual facilitation   |
|      | Tiago Freitas                                   | <a href="mailto:taf@iltec.pt">taf@iltec.pt</a>   | Pain, Neurodynamics, Dynamic stability training and clinical reasoning in Musculoskeletal Physiotherapy.   |
|      | Prof. Isabel Baleia                             | <a href="mailto:iguimaraes@essa.pt">iguimaraes@essa.pt</a>                               | Neurological rehabilitation.   |
|      | Dr. Élia Maria Carvalho Pinheiro da Silva Pinto | <a href="mailto:elia.pinto@essa.pt">elia.pinto@essa.pt</a>                               | Rehabilitation with adults that have Neurologic and Orthopaedic problems.  |
|      | Sílvia Coelho Martins                           | <a href="mailto:silvia.martins@essa.pt">silvia.martins@essa.pt</a>                       | Aging (active aging and people with dementia).   |
|      | Andreia Carvalho Habib                          | <a href="mailto:andrerahabib@hotmail.com">andrerahabib@hotmail.com</a>                   | Occupational therapy in Neurology and children with mental handicaps   |
|      | Dr. Dália Nogueira                              | <a href="mailto:dalia.nogueira@essa.pt">dalia.nogueira@essa.pt</a>                       | Speech Therapy   |



## STUDENT SERVICES AND SUPPORT

### ACADEMIC ADVISING

JUST-CRS students are assigned an academic advisor upon admission. The academic advisor is a faculty member in the department of rehabilitation sciences. Students are to meet with their academic advisor at least one time per semester.

### INTERNATIONAL STUDENT OFFICE

[International Student Office](#) cares about various affairs of Arab and foreign students and putting them in student body by providing all the facilities for students and overcome the difficulties they face during their studies, as well as accommodate the different cultures and guide them so that the office where they resort to in everything they need services, whether academic, social, cultural, legal, technology and others. As well as coordination with the embassies and cultural attaché in regard to the students as well as for the organization of their meetings with the president of the university.

### DEANSHIP OF STUDENTS AFFAIRS

The main purpose of the [Deanship of Student Affairs](#) at Jordan University of Science and Technology is to complement the academic mission by promoting and preparing the students for entrepreneurship and lifelong learning. The deanship works collaboratively with the students to accomplish significant contribution to the neighboring community and society via voluntary work in an attempt to extend the student services beyond the classroom. This duty is accomplished by sponsoring different non-academic programs that foster the academic success and promote students' talents, abilities, hobbies and skills.

The deanship of students' affairs is also in charge of different facilities and offices such as: housing, subsidy, financial grants and awards, educational guidance and the international students' office.

The Deanship included 5 departments that provide various and wide variety of activities including:

- Career Guidance and Alumni Office / King Abdullah II Fund for Development
- Cultural and social activities
- Athletic activities
- Students' services
- Counseling office

### DEANSHIP OF RESEARCH

The deanship plays a regulatory and facilitative role in research. The deanship oversees all research and funding processes. This includes evaluation of the JUST-funded research proposals, determining merit and appropriate budgeting, and monitoring the progress and resources expenditure.

The deanship offers scholarships for master students to support their thesis work ([Postgraduate Research Fellowship Fund](#)). Please communicate with your academic supervisor to learn about scholarships and grants application process.



## SCHOLARSHIP AND FINANCIAL SUPPORT

Faculty of Graduate Studies offers a wide range of scholarships and financial support to postgraduate students. For more information please read about [scholarships opportunities and regulations](#).

## IT HELP DESK

The Help Desk office provides support to students, faculty, and staff seeking problem resolution with supported software, hardware, and operating systems, including general IT services provided by the University. Our goal is to resolve all supported issues in a timely manner. Service is our central focus.

- The Help Desk office covers a wide variety of services including:
- To provide a visible and proactive avenue of help for students, faculty, and staff.
- To provide support and maintenance for computers and Peripherals.
- To provide support for user account maintenance.
- To provide support for wireless settings.
- Support on a wide range of applications including MS Windows (10, 8.1, 7), Microsoft Office, Adobe Acrobat, Antivirus

## JUST HEALTH CENTER

[JUST Health Center](#) is located in a vital area opposite to Prince Al-Hassan Youth Sport City in Irbid. Transportation is convenient and parking lot is available. The center provides low-cost primary health care services to the communities of JUST.

The center provides the following services:

- Preventive and therapeutic services; through family medicine clinics, pediatric clinic, well-baby clinic, women's health and family planning clinic, Breast cancer screening clinic, optometry clinic, nutrition clinic and smoke cessation clinic.
- Diagnostic Services; through the diagnostic lab that provides biochemistry, hematology, microbiology, urine and stool studies, hormone and serology tests and the diagnostic radiology which provides x-ray, ultrasound and mammogram.
- Pharmaceutical services: The pharmacy offers a variety of services including:
  - Medication therapy management.
  - Vaccines administered on site.
  - Counseling on medications.
  - Smoke cessation support.

## LIBRARY

[JUST Library](#) avails access to a tremendous collection of printed and electronic materials in all branches of knowledge. Library collection includes 190,000 books and 50,000 volumes of back issues of scientific journals that cover all fields of knowledge. Moreover, the library has active subscriptions to 360,000 eBooks, and has access to 58 databases including about 58,000 electronic journals in full text. All databases and library materials are available to students and faculty members at the university for free.



Library users can access these resources by making use of EDS, which is one unified and comprehensive index that avails an effective search in all library resources. They can access these resources from inside or outside the university through the Library official website <http://www.just.edu.jo/library> . Beside the free access computer labs equipped with 200 advanced computers, the full coverage of wireless internet service at the library building allows users to access these resources through their own laptops, iPads/Tablets and smartphones.

The library provides the Radio Frequency Identification (RFID) which is a circulation/return self-service enabling users to borrow and return library materials automatically and independently. Using the Document Delivery System (DDS) service, the electronic department staff in the library responds within 24 hours by email to researches' requests for softcopies of published research articles. Furthermore, library users can borrow any library material via the Inter-Library Loan (ILL) service from Jordanian public university libraries.

## OTHER IMPORTANT REGULATIONS

### STUDENTS ATTENDANCE POLICY:

Attendance is required for all lectures, and students must be on time. Student's absence and late is subjected to the university rules and regulations. Excused or unexcused absence should not exceed 20% of the lectures hours. Unexcused absence will affect student's grade negatively. Late should be less than 10 minutes. A late that exceeds 10 minutes will report as an absent day. Two late are considered one absent.

### PLAGIARISM STATEMENT:

Please be advised that student work submitted for credit in this course should reflect a genuine work. It is not acceptable to reproduce, copy, or encompass any educational or scientific publication without the proper citation. Students will be subjected to the student code of conduct regarding scientific property. Students need to review the Code of Student Conduct of Jordan University of Science and Technology Student Handbook for plagiarism and attendance policy.

### CLASSROOM COURTESY:

Student's conduct and behavior reflect upon Jordan University of Science and Technology. Students are expected to behave in an appropriate manner in the classroom. Evidence of intolerable conduct on the part of any student is justification for termination (dropping that student from the course). Students will be informed about inappropriate conduct through verbal or written counseling. Students are expected to be on time for class and prepared to learn. The instructor reserves the right to dismiss a disruptive student from the classroom. All cell phones are to be turned off before entering the classroom

### ACADEMIC HONESTY:

Professional integrity is a required component of professional, and is expected of every student. Each student is accountable for his/her own learning. Students are referred to the JUST Student Handbook.



## CLINICAL TRAINING GUIDELINES

### STUDENTS' RESPONSIBILITY:

1. Attend all clinical placements.
2. Arrive on time to all scheduled clinical placement. Students will not be allowed to attend the clinical placement if they arrive late.
3. Students should be committed to the dress code of the clinic. Students who will not be committed to the dress code will not be allowed to attend the clinic. The dress code includes the following.
4. No food or beverages are allowed in the clinics.
5. After completion of clinical session, all equipment should be returned to its original location.
6. Turn off mobile phone.

### DRESS CODE

#### A- Female students:

1. White Lab coat (buttoned, clean, neat, and ironed).
2. Dark navy blue clothes underneath the white Lab coat
3. The identification badge (name tag), and University logo are part of the uniform and should be placed above the left upper pocket of the lab coat
4. Plain white head cover (head scarf) free of accessories.
5. Hair neatly styled short or tied up.
6. White or black shoes, (heels and sport shoes or ballerinas are not allowed).
7. Jewelry is limited to engagement and wedding rings
8. Students are not allowed to wear scrub uniforms outside the hospital unit or setting and as described by a hospital policy only.
9. The uniform (Lab coat) should be worn only during the clinical and within laboratory settings

#### B. Male students:

1. White Lab coat (buttoned, clean, neat, and ironed).
2. The identification badge (name tag) and University logo are part of the uniform and should be placed above the left upper pocket of the lab coat
3. Black or navy blue trousers with plain light or dark blue shirt
4. The hair should be cut and styled neatly without any additives, beards must be shaved neatly
5. Black shoes (sport shoes are not allowed)
6. In case of wearing specific uniform (scrub) that described by a hospital policy, the students are not allowed to wear it outside the unit itself.
7. The uniform should be worn only in all clinical training areas and laboratory settings

### ATTENDANCE AND PUNCTUALITY

Students must attend all clinical days of the course. Absence of more than 20% of clinical days with or without an official excuse (i.e. sick report), student will not be permitted to sit for the final exam and will be given the university (F grade) on this course.



Students with excused absenteeism with dean's permission based on the official credit hours' regulations i.e. sick report, will be considered as withdrawn from the course.

The excuse or sick report should be approved and stamped by the University physician at the University health clinic or the University hospital. The excuse should be submitted within two weeks of absence date.

The orientation program of the clinical course; the first two weeks are part of the course and failing to attend is considered absenteeism. Punctuality in clinical practice is mandatory that is (8-2) for 3 credit hours course and (8-12) for 2 credit hours course. Break time during clinical training ranges from (20 -30) minutes only and must be arranged with the clinical instructor. No late arrivals (more than 30 minutes) are allowed to clinical settings. Late students are not allowed to come to the clinical area and considered as absent for that day.

Unexcused absenteeism from clinical or written final exams are dealt with according to the University's instructions stipulated by the Deans' council under paragraph (a) of Article (3) of the degree-granting honorary degrees and diplomas at the University of Jordan article system (16), which states:

A) student who is absent for an exam she/he must submit an excuse to her/his instructor within three days from the date of his absence and in case of accepting this excuse the student is allowed to sit for a compensated exam

B) Student who is absent from the final exam without an accepted formal excuse from the Dean of the school submitting that course the grade is considered (zero).

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### **PROFESSIONAL BEHAVIOR:**

During the clinical training, students are expected to:

- Demonstrate professional attitudes and behaviors as listed in the student clinical Training Instructions.
- Arrive and depart from the clinical setting promptly
- Introduce themselves to the head of the department (supervisor) before initiating their care with patients/ clients
- Maintain client/ patient privacy and confidentiality
- Adhere to the regulations and policies regarding safety goals and infection control standards followed in clinical areas. Students are not allowed to practice in the clinical area unless they have the required immunization.
- Demonstrate ethical behavior (Adhere to Jordanian Code of ethics) Practice only with direct supervision either from clinical instructor/faculty or staff in the clinical area.
- Commit to training according to schedule; no training outside of regular hours is allowed. Exceptions are made by special consent from the course coordinator,
- Adhere to the following instructions in the clinical area:
  - No chewing gum
  - Nails must be cleaned, trimmed and free of nail polish
  - Jewelry is limited to engagement or wedding rings
  - Smoking is forbidden
  - No Mobile phone during training hours
  - Do not sit on patient' beds or room's tables
  - Speak gently.
  - Present a professional appearance when talking with patients, colleagues and others



- Avoid placing hands in your pockets
- \*\* Clinical training site is assign to help and guide students to achieve course intended learning outcomes. It is not allowed to work on your class or homework assignments during this time.

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### DISTRIBUTION OF CLINICAL GRADES

Coordinators of the clinical courses should follow the approved University's administrators' regulations and instructions in item (16) as follows:

- Clinical evaluation and activities throughout the period of training according to requirements of each course which is elaborated for students in the syllabus = 50 %
- Grades out of 50% should be announced to students before sitting for their final exam
- Written final exam = 30%
- Final clinical exam = 20%

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### EXAMINATION INSTRUCTIONS FOR STUDENTS

- Bring with you full exam requirements (blue pen, pencils, sharpener, eraser, calculator etc.), borrowing from others is not allowed.
- Do not bring any material related to the exam
- Do not bring your mobile phone to the Exam room
- Be in the exam room at least 10 minutes before exam starting time
- It is not allowed to enter the exam room late. In case of coming late you have to contact the course coordinator immediately
- It is not allowed to leave the Exam room before the end of the **AT LEAST ONE-THIRD OF THE EXAM TIME..**
- Do not leave examination room except under exceptional circumstances at the discretion of the Senior Supervisor and you should be accompanied by an invigilator, if needed.

For Re-exam issue refer back to the university rules.





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