

● **PhD in Rehabilitation Sciences Study Plan:**

❖ **First Level**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	RHS 611	Research Methodology (1)	3 (3+0)	Lecture	Included	
2	RHS 612	Statistics for Rehabilitation Research (1)	3 (3+0)	Lecture	Included	
3	RHS 613	Concepts in Rehabilitation Sciences	3 (3+0)	Lecture	Included	
4	RHS 614	Seminars in Rehabilitation Sciences (1)	1 (1+0)	Lecture	Pass/Fail	
Total			(10) Study Units			

❖ **Second Level:**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	RHS 621	Research Methodology (2)	3 (3+0)	Lecture	Included	RHS 611
2	RHS 622	Statistics for Rehabilitation Research (2)	3 (3+0)	Lecture	Included	RHS 612
3	RHS 623	Directed Studies (1)	3 (3+0)	Lecture	Included	
4	RHS 624	Seminars in Rehabilitation Sciences (2)	1 (1+0)	Lecture	Pass/Fail	
4	RHS.....	Elective course (1)	3 (3+0)	Lecture	Included	
Total			(13) Study Units			

❖ **Third Level:**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	RHS 631	Teaching Practicum	3 (0+3)	Practical	Included	
2	RHS 632	Directed Studies 2	3 (3+0)	Lecture	Included	
3	RHS 633	Advanced Measurement in Rehabilitation Sciences	2 (2+0)	Lecture	Included	RHS 612, RHS 622
4	RHS 634	Seminars in Rehabilitation Sciences 3	1 (1+0)	Lecture	Pass/Fail	
5	RHS 699	Thesis proposal Preparation	Study unit	Supervision	Pass/Fail	(17) study units
Total			(10) Study Units			

❖ **Fourth level**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	COM 700	Comprehensive Exam	0	Exam	Pass/Fail	(33) study units, GPA 3.75/5
Total			(0) Study Units			

❖ **Fifth Level & following levels:**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	RHS 700	Thesis	12	Supervision	Pass/Fail	RHS 699, COM 700
Grand Total			(33) Study Units + (12) Study Units for the Thesis			

❖ **List of elective courses: student must select (1) course from the following**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	RHS 661	Advanced Topics in Musculoskeletal Rehabilitation	3 (3+0)	Lecture	included	
2	RHS 662	Advanced Topics in Neurological Rehabilitation	3 (3+0)	Lecture	included	
3	RHS 663	Advanced Topics in Pediatric Rehabilitation	3 (3+0)	Lecture	included	
4	RHS 664	Advanced Topics in Geriatric Rehabilitation	3 (3+0)	Lecture	included	
5	RHS 665	Advanced Topics in Cardiopulmonary Rehabilitation	3 (3+0)	Lecture	included	
6	RHS 666	Advanced Topics in Sports Rehabilitation	3 (3+0)	Lecture	included	
7	RHS 667	Advanced Topics in Women's Health Rehabilitation	3 (3+0)	Lecture	included	
Total			(3) Study Units			

• **Description of Courses:**

RHS 611	Research Methodology (1)	3 (3+0)
<p>This course discusses clinical research and explains the steps of the research process. Emphasis will be placed on identifying a research problem and formulating research question and research objectives and hypotheses. This course will discuss the different types of clinical research methods covering experimental and non-experimental research methods. The different methods for sampling research participants will also be discussed. Students will also be exposed to the components of research proposal. Additional topics such as searching medical databases, working with citation manager software will also be covered.</p>		
RHS 612	Statistics for Rehabilitation Research (1)	3 (3+0)
<p>This course discusses the fundamental descriptive and inferential statistics. This class will discuss descriptive statistics including statistics of central tendency and statistics of dispersion. Hypothesis testing and factors determining the appropriate statistical test will also be discussed. The course will cover inferential statistical analyses including independent t-test, dependent t-test, Analysis of Variance (ANOVA) including between-subject, within-subjects, factorial and mixed-design ANOVAs. The course will also discuss the non-parametric alternatives of the inferential statistics discussed.</p>		
RHS 613	Concepts in Rehabilitation Sciences	3 (3+0)
<p>This course will discuss philosophical and theoretical concepts in rehabilitation sciences. This course will also discuss models and theories of health and rehabilitation. Concepts of functioning, disability, and health will be discussed including the concepts of body structure and function, activity, participation, and personal and environmental factors.</p>		
RHS 614	Seminars in Rehabilitation Sciences (1)	1 (1+0)
<p>Doctoral students are expected to attend and effectively participate in this weekly seminar that involved discussion of different aspects related to rehabilitation research. The seminar might take different forms including critical appraisal of published research, presentation of research ideas and proposals, presentation of completed projects. Seminars are directed to expose doctoral students to research dissemination at different levels.</p>		

RHS 621	Research Methodology (2)	3 (3+0)
<p>This course will discuss advanced research methodology topics related to rehabilitation research. Topics will include ethics in research, literature review, research study internal and external validity, appraisal of research studies, sample size estimation, and qualitative research methods. This course will also cover topics related to experimental studies such as randomization methods, allocation concealment, and blinding.</p>		
RHS 622	Statistics for Rehabilitation Research (2)	3 (3+0)
<p>This course discusses parametric and non-parametric inferential statistics for bivariate correlation. Measures of association for categorical data such as chi-square statistics and others will be discussed. Simple linear regression and multiple regression will be discussed in details in this course. This also course will also cover multivariate analysis methods such as logistic regression and cluster analysis.</p>		
RHS 623	Directed Studies (1)	3 (3+0)
<p>This course is designed to give the doctoral student an in-depth exposure and knowledge in the area of concentration. The student's directed study will be guided by a faculty member who is considered expert in the area which the student is interested in. The doctoral student and his/her advisor will choose the topic of the directed study and the faculty member that the student will work with in the course. The directed study could be in the form of directed readings, independent project, or research related activities and tasks.</p>		
RHS 624	Seminars in Rehabilitation Sciences (2)	1 (1+0)
<p>Doctoral students are expected to attend and effectively participate in this weekly seminar that involved discussion of different aspects related to rehabilitation research. The seminar might take different forms including critical appraisal of published research, presentation of research ideas and proposals, presentation of completed projects. Seminars are directed to expose doctoral students to research dissemination at different levels.</p>		
RHS 631	Teaching Practicum	3 (0+3)
<p>In this course, the doctoral student will be assigned (with consultation of the student's advisor) to join and help a faculty member in all teaching activities in one undergraduate course for one semester. The doctoral student will participant in developing teaching material, presenting lectures or practical sessions. The doctoral student will also be involved in the evaluation and grading of the undergraduate students.</p>		

RHS 32	Directed Studies (2)	3 (3+0)
<p>This course will be individually tailored to the need of the doctoral student covering topics and skills that are not covered by the rest of the courses in the doctoral program. The doctoral student and his/her advisor will choose the faculty member that the student will work with and the topic of the directed study which will be closely related to the potential doctoral thesis of the student. The directed study could be in the form of directed readings, independent project, or research related activities and tasks.</p>		
RHS 633	Advanced Measurement in Rehabilitation Sciences	2 (2+0)
<p>This course will cover measurement theories underlying measurement instruments in rehabilitation sciences including classical test theory and item response theory. The course will cover the development of measurement instrument including item selection, scoring and field testing. Evaluation of the instrument measurement properties will also be covered in this course including discussion and application of the appropriate statistical methods. Specific focus will be given to evaluation of the instrument's internal structure (structural validity) using various statistical methods.</p>		
RHS 634	Seminars in Rehabilitation Sciences (3)	1 (1+0)
<p>Doctoral students are expected to attend and effectively participate in this weekly seminar that involved discussion of different aspects related to rehabilitation research. The seminar might take different forms including critical appraisal of published research, presentation of research ideas and proposals, presentation of completed projects. Seminars are directed to expose doctoral students to research dissemination at different levels.</p>		
RHS 699	Thesis proposal Preparation	One study unit
<p>The doctoral student will be guided by a faculty member in the development and writing of a doctoral thesis proposal in a rehabilitation-related topic. The topic of the thesis proposal shall fall within the student's specialization track.</p>		
COM 700	Comprehensive Exam	(0)
<p>After completing all the required courses, the student must pass a comprehensive written and oral examination held by a specialized committee in accordance with the comprehensive examination regulations approved by the University Council.</p>		

RHS 700	Thesis	(12) study units
<p>The student will conduct a research study based on what was proposed in the thesis proposal document. The doctoral student will produce a final doctoral thesis document that is deemed to be scientifically rigor and original. The doctoral student will defend the doctoral thesis before an examining committee.</p>		
RHS 661	Advanced Topics in Musculoskeletal Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of musculoskeletal rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in patients with musculoskeletal disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of musculoskeletal disorders that are pertinent to rehabilitation professionals.</p>		
RHS 662	Advanced Topics in Neurological Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of neuromuscular rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in patients with neuromuscular disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of neuromuscular disorders that are pertinent to rehabilitation professionals.</p>		
RHS 663	Advanced Topics in Pediatric Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of pediatric rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in patients with pediatric disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of pediatric disorders that are pertinent to rehabilitation professionals.</p>		

RHS 664	Advanced Topics in Geriatric Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of geriatric rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in those with geriatric disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of geriatric disorders that are pertinent to rehabilitation professionals.</p>		
RHS 665	Advanced Topics in Cardiopulmonary Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of cardiopulmonary rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in those with cardiopulmonary disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of cardiopulmonary disorders that are pertinent to rehabilitation professionals.</p>		
RHS 666	Advanced Topics in Sports Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of sports rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in those with sports-related disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of sports-related disorders that are pertinent to rehabilitation professionals.</p>		
RHS 667	Advanced Topics in Women's Health Rehabilitation	3 (3+0)
<p>This course discusses advanced and contemporary topics in the area of Women's health rehabilitation. The course will include advanced topics covering the whole continuum of patient management (examination, evaluation, diagnosis, prognosis, prevention and intervention) in addition to outcome measurement in those with women's health-related disorders. Additional topics will include epidemiology, pathomechanics, and pathophysiology of women's health-related disorders that are pertinent to rehabilitation professionals.</p>		