

King Saud University Applied Medical Sciences College Quality and Development Unit



Course Syllabus

Course title and code:	Independent study- RHS 481		
Department:	Rehabilitation Health Sciences		
Program in which the course is offered:	Physical Therapy Program		
Credit hours:	Theory - 2		
Total contact hours per semester:	45 hours		
Level at which this course is offered:	level 8		
Course prerequisites:	RHS231, RHS323, RHS327		
Time:	Wednesday 8-10 AM		
Location:	Female campus		
College member responsible for the course	Dr. Rehab Farrag Gwada	Dr. Adel Abdullah Alhusaini Pediatrics Neurorehabilitation Consultant	
Contact information:			
Office Number:	162	Room 2061, 2ed floor, CAMS, KSU	
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Office hours:	10-11am Sunday, 10-1am	12:30-3 pm Sunday,	
	Monday, 10-12amTuesday	10-12 pm Thursday	
Course Description	This course introduces the need for conducting research in the field of physical therapy, stressing the importance of evidence-based practice. The core of this course will be to teach the students how to conduct a scientific research, starting with a relevant clinical question and ending with how to interpret and analyze the research findings		
Course Objectives	 Identify research question and its bases. Critically appraise the relevant literature review. Develop skills in writing a research proposal (following the traditional sequence used in publications). Critique research articles. Apply the selected research idea. Analyze the results of the research. Practice presenting their research orally (platform presentation) and /or visually (poster presentation). 		
Teaching strategies	According to research and best practices, Differentiated teaching strategies are required to verify student learning, align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual		
Required Text (s)	Learning Resources Currie DP: Elements of Researce	ch in Physical Therapy, 3rd ed. Williams & Wilkins, 1999.	
Essential References	 Domholdt E: Physical Therapy Research: Principles and Applications, 2nd ed. Wb Saunders Company, 2000. French S, Reynolds F and Swain J: Practical Research: A guide for Therapists, 2nd ed. Butterworth Heinemann, 2002. Porter S, Tidy's physiotherapy, 13th ed, Butterworth Heinmann, 2003. 		
Recommended Journals	> Journal Periodic articles.		
> Electronic Materials and Web Sites	> To be attached upon nee	d	

Topics to be covered

List of Topics		due	Contact
		Week 1st weeks	Hours
Orie	Orientation		2
-	Establishment of Class Ground Rules.		
-	Assignment of head student.		
-	Collection of students' contact information.		
-	Overview of the course goals and specification:		
	Why it is important to study this course?		
	 What are your expected outcomes from this course? 		
-	Explanation of the students' assignments		
Res	earch Introduction	2 nd weeks	2
-	What is research?		
-	Reason for developing research (Why research?).		
-	Types of research (Basic and applied).		
-	Approaches to research (Quantitative/ Qualitative).		
-	Who should research?		
-	Ethical considerations.		
-	Barriers of research		
-	Identifying a research problem	3 rd week	2
-	Developing answerable research question (s).		
-	Dependent and independent variables.		
-	Hypotheses		
-	Assignment 1: Problem statement and Research question		
-	Selection of subjects (sampling)	4 ^{th, 5th}	4
-	Sample size.	week	
-	Research design		
-	Reliability and Validity: (Definitions, Types of Reliability, Measurement of		
	reliability& validity)		
-	Literature review	6 th week	2
-	Oral presentation of the research proposal	7th week	2

Measurement theory:	8 th weeks	2
- Measures of central tendency (mean, median, mode).		
- Measures of variation (range, variance, standard deviation, coefficient of		
variation, percentiles).		
- Normal distribution		
- Types of data		
- Types of statistics (parametric &non-parametric)		
- Selection of statistical design according to research design (t-test,		
ANOVA, correlation)		
- Assignment 2: students presents summary of relevant literature orally		
- Vacation	9 th week	2
Writing process:	10 th week	2
1. Title and abstract		
2. Introduction		
3. Literature review		
4. Methodology		
5. Discussion		
6. Results		
7. Conclusion and recommendation		
8. References		
9. Appendices		
10. Arabic summary		
Cont. Writing process:	11 th	2
- Dissemination:	weeks	
 Numerous ways of disseminating the research findings. 		
 Reasons for disseminating research. 		
 Presentations (verbal and poster). 		
- Assignment 3: Final Literature review (Written)		
- Midterm exam	12th week	2
Assignment 4: Article critique	13 th week	2
Write up First draft of the thesis	14 th week	2
Students present their final thesis	16thweek	2

Schedule of Assessment Tasks for Students During the Semester

Assessment task	Week	Proportion of Final
Assessment task	due	Assessment
research question /problem	4 th	5%
final Written Literature review	10 th	20%
Midterm exam (written)	12 th	20%
Article critique	13 th	5%
proposal presentation	7 th	10%
Final exam (final written version of research manuscript/presentation	16 th	40%
&discussion)		(30% / 10%)

Required Assignments:

Week	Assignments	evaluation	Week due
4 th	research question /problem	5%	4th
10 th	final Written Literature review	20%	9 th
13 th	Article critique	10%	11th
7 th , 16 th	Presentation(proposal, final)	20 %(10%,	
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• Criteria for evaluation:

- o The ability to Search certain literature in the area of interest.
- o skills in writing a research proposal (following the traditional sequence used in publications).
- o Application of the selected research idea and the ability to Analyze the results of the research.
- o oral presentation of their research.

• Course rules:

• Class Leader:

Name:

• Duties of the Class leader:

- o The Class Leader will serve as the direct liaison between the course instructors and the students.
- o Ensure that all students' duties are assigned and completed as required.
- Notify course instructor immediately when any student fails to complete a required component of the class.
- o Serve as role model for the students and members in both manner and dress.
- o Ensure that all students are aware and informed of their duties
- o Ensure that both lab and classroom environment are always left in a neat and orderly fashion.

• More comments for instructors:

- Students are expected to attend each session and be on time. The regular attendance is critical for doing
 well in this course. If you are absent in the class, make arrangements to obtain the notes from another
 student. Additionally, each student will be responsible for signing her name ONLY.
- Any disruptive activity (e.g. use of cell phones, side conversations) in the classroom is prohibited. If the instructor required disruptive students to leave the classroom, the student remains responsible for all the information and will be marked absent for the class session. The dean will impose sanctions for unprofessional behavior.
- There will be <u>no bonus</u> at the end of course.