

Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	RESEARCH METHODS IN HEALTHCARE	Instructor	HUANG, CHIA-SHENG
Course Class	TZHBM1R MASTER'S PROGRAM, DIVISION OF PRECISION HEALTHCARE, GRADUATE INSTITUTE OF SENIOR HEALTHCARE MANAGEMENT, 1R	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG3 Good health and well-being for people		
Departmental Aim of Education			
<ul style="list-style-type: none"> I. Development of problem solving capacity. II. Development of reserch and innovation capacity. III. Enhancement of cross-disciplinary capactiy. IV. Development of lifelong self learning capacity. 			
Subject Departmental core competences			
<ul style="list-style-type: none"> A. Capacity of problem solving.(ratio:10.00) B. Capacity of senior health managemnt.(ratio:10.00) C. Capacity of Healthcare Industry Management.(ratio:20.00) D. Analytical capacity of health informatics.(ratio:20.00) E. Capacity of research and innovation.(ratio:10.00) F. Capacity of Scientific Paper Writing.(ratio:20.00) G. Capacity of lifelong self learning.(ratio:10.00) 			
Subject Schoolwide essential virtues			
<ul style="list-style-type: none"> 1. A global perspective. (ratio:10.00) 2. Information literacy. (ratio:20.00) 3. A vision for the future. (ratio:15.00) 4. Moral integrity. (ratio:10.00) 5. Independent thinking. (ratio:15.00) 6. A cheerful attitude and healthy lifestyle. (ratio:15.00) 7. A spirit of teamwork and dedication. (ratio:10.00) 			

8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction

This course is primarily designed to provide graduate students with essential theoretical knowledge and practical skills in the field of physical activity and health care research, enhancing their foundational capabilities in conducting academic research and experiments. The course content covers research methods in health care, including the design of quantitative and qualitative studies, data collection and analysis, and the interpretation and application of results.

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

- I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
- II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
- III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	1. Understand the basic concepts of scientific research. (了解科學研究的基本概念)	Cognitive
2	2. Learn how to search for literature and verify information. (學習文獻搜尋與資料查證)	Cognitive
3	3. Become familiar with different research methods. (認識不同的研究方法)	Cognitive
4	4. Develop critical thinking skills for scientific papers. (能對科學論文批判思考)	Affective
5	5. Understand how to write a research paper. (瞭解如何撰寫研究論文)	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	AEFG	1235	Lecture, Discussion, Publication	Discussion (including classroom and online), Report (including oral and written)

2	ADEFG	125	Lecture, Discussion, Publication	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
3	ABCFG	12568	Lecture, Discussion, Publication, Experience	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
4	AEFG	5678	Discussion, Publication, Experience	Study Assignments, Discussion(including classroom and online), Activity Participation
5	ABCDEFG	12456	Lecture, Discussion, Publication	Testing, Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	113/09/09 ~ 113/09/15	Course Introduction; What is Scientific Research?	
2	113/09/16 ~ 113/09/22	Mid-Autumn Festival	No class
3	113/09/23 ~ 113/09/29	Introduction to Research Methods; Academic Ethics	
4	113/09/30 ~ 113/10/06	Literature Collection and Discussion	
5	113/10/07 ~ 113/10/13	Learning to Ask Questions: Presenting Research Questions	
6	113/10/14 ~ 113/10/20	Planning Research Methods and Steps	
7	113/10/21 ~ 113/10/27	Experimental Design and Statistical Analysis	
8	113/10/28 ~ 113/11/03	Experimental and Quasi-Experimental Research	
9	113/11/04 ~ 113/11/10	Qualitative Research I: Observation Method	Midterm exam
10	113/11/11 ~ 113/11/17	Qualitative Research II: Interview Method	
11	113/11/18 ~ 113/11/24	Research Results and Discussion	
12	113/11/25 ~ 113/12/01	Formulating Research Topics	
13	113/12/02 ~ 113/12/08	Thesis Presentation: Conference Presentation and Journal Paper	
14	113/12/09 ~ 113/12/15	Writing Citations: APA Format	

15	113/12/16~ 113/12/22	Thesis Review and Commentary I: Oral Presentation	
16	113/12/23~ 113/12/29	Thesis Review and Commentary II: Oral Presentation	
17	113/12/30~ 114/01/05	Thesis Review and Commentary III: Oral Presentation	
18	114/01/06~ 114/01/12	Creating and Uploading Final Report	
Key capabilities	self-directed learning Information Technology Humanistic Caring Problem solving Interdisciplinary		
Interdisciplinary	Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)		
Distinctive teaching	Project implementation course Special/Problem-Based(PBL) Courses		
Course Content	Logical Thinking AI application		
Requirement	I. Teaching Methods (1) Presentation and Guided Reading: The teacher or groups report on the topic of discussion for the week, reading materials include designated chapters from the textbook and research papers. (2) Questions and Discussion: Before each class, students must preview the literature scheduled in the course progress, and create a summary of key points. (3) Exchange of Opinions: Group discussions and sharing. II. Attendance Notice (1)In case of absence, it is mandatory to follow the school' s procedures to apply for leave, or inform via E-mail or message. The format for the application is flexible; however, the leave application must specify class, student ID number, name, and reason for absence. (2)Those who are absent without applying for leave will be counted as having skipped a class once; if the number of leaves reaches 3 times in a semester (including applied leaves), and if absences reach 3 times, the semester grade will be calculated as failing.		
Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Textbooks Name of teaching materials: Thomas, J. R., Nelson, J. K., & Silverman, S. J. (2021)。身體活動研究法 (第七版) (洪聰敏等譯)。禾楓 (原著出版於2015)		
References	Grady, K. E. & Wallston, B. S. (2000)。醫療保健研究法 (賴文福譯)。弘智文化。		
Grading Policy	◆ Attendance : 30.0 % ◆ Mark of Usual : 40.0 % ◆ Midterm Exam : % ◆ Final Exam : 30.0 % ◆ Other () : %		

Note

This syllabus may be uploaded at the website of Course Syllabus Management System at <http://info.ais.tku.edu.tw/csp> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <http://www.acad.tku.edu.tw/CS/main.php>.

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