

**TISHK INTERNATIONAL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**Department of MEDICAL ANALYSIS,**  
**-2022**  
**Course Information for MA 413-MA 410 RESEARCH PROJECT**

<b>Course Name:</b>	RESEARCH PROJECT				
<b>Code</b>	<b>Regular Semester</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Credits</b>	<b>ECTS</b>
MA 413-MA 410	7-8	-	4	4	4
<b>Name of Lecturer(s)- Academic Title:</b>	Tola Faraj - PhD				
<b>Teaching Assistant:</b>	-				
<b>Course Language:</b>	English				
<b>Course Type:</b>	Main				
<b>Office Hours</b>	2-4				
<b>Contact Email:</b>	tola.faraj@tiu.edu.iq Tel:07509988344				
<b>Teacher's academic profile:</b>	Medical Immunology				
<b>Course Objectives:</b>	At the end of this course, the students should be able to: 1. understand some basic concepts of research and its methodologies 2. identify appropriate research topics 3. select and define appropriate research problem and parameters 4. prepare a project proposal (to undertake a project) 5. organize and conduct research (advanced project) in a more appropriate manner 6. write a research paper				
<b>Course Description (Course overview):</b>	Research Project means a discrete scientific endeavor to answer a research question or a set of research questions. A Research Project must include a description of a defined protocol, clearly articulated goal(s), defined methods and outputs, and a defined start and end date. Moreover, it is an exploration of a specific topic within a field by an undergraduate student that makes an original contribution to the discipline.				

**COURSE CONTENT**

<b>Week</b>	<b>Hour</b>	<b>Date</b>	<b>Topic</b>
1	7	4-7/10/2021	Research Methodology: An Introduction
2		10-14/10/2021	Review process
3		17-21/10/2021	Library generation
4		24-28/10/2021	Importing references into library
5		31/10-4/11/2021	Objectives of Research
6		7-11/11/2021	Defining the Research Problem
7		14-18/11/2021	Midterm Exam
8		21-25/11/2021	Midterm Exam
9		28/11-2/12/2021	Sampling Design
10		5-9/12/2021	Measurement and Scaling Techniques
11		12-16/12/2021	Methods of Data Collection
12		19-23/12/2021	Processing and Analysis of Data
13		26-30/12/2021	Interpretation and Research Writing
14		2-5/1/2022	Publication
15		9-13/1/2022	Final Exam
16		16-20/1/2022	Final Exam

### COURSE/STUDENT LEARNING OUTCOMES

- 1 Students who successfully complete this course will be able to explain key research concepts and issues
- 2 Read, comprehend, and explain research articles in their academic discipline.
- 3 Create a new idea in your field of study

### COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Proficient, A: Advanced )

#### Program Learning Outcomes

**Cont.**

- |    |  |   |
|----|--|---|
| 1  | Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.  | I |
| 2  | apply principles of evidence-based medicine to determine clinical diagnoses.   | P |
| 3  | apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.  | A |
| 4  | formulate and implement acceptable treatment modalities to various disease states.   |   |
| 5  | use technology effectively in the delivery of instruction, assessment, and professional development.   |   |
| 6  | exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.   |   |
| 7  | exhibit organizational skills, accountability, and ethical behavior.   |   |
| 8  | apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment. |   |
| 9  | apply problem-solving and decision-making skills.  |   |
| 10 | apply and promote health policies and regulatory standards in the field career.  |   |
| 11 | develop research in the field of medical analysis using qualitative and quantitative methods.  |   |

**Prerequisites (Course Reading List and References):**

Biostatistics

**Student's obligation (Special Requirements):**

Attendance in lecture is expected. They are responsible for everything covered, mentioned, discussed and displayed in class.

**Course Book/Textbook:**

Kothari;C and Garg, G. 2019. Research methodology: methods and techniques. New Age International.

**Other Course Materials/References:**

Petter Laake, P, Benestad H and Olsen B. 2007. RESEARCH METHODOLOGY IN THE MEDICAL AND BIOLOGICAL SCIENCES. Oxford Publ.

**Teaching Methods (Forms of Teaching):**

Lectures, Presentation, Project, , ,

### COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Attendance	1	10
Project	1	10
Presentation	1	10
Term Paper	1	30
Final Exam	1	40
<b>Total</b>		<b>100</b>

**Examinations:** Essay Questions, Multiple Choices, Short Answers, , ,

**Extra Notes:**

### ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	0	0
Practical Hours	16	4	32
Final Exam	1	2	2
Attendance	1	2	2

Project	1	0
Presentation	1	0
Term Paper	1	0
<b>Total Workload</b>		<b>36</b>
<b>ECTS Credit (Total workload/25)</b>		<b>1.44</b>

**Peer review**

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean