



# Course Specification

(Postgraduate)

**Course Title:** Research Methods II: Implementation of Research Plan

**Course Code:** 373509-3

**Program:**

Master of Clinical Laboratory Sciences in Molecular Diagnostics

Master of Clinical Laboratory Sciences in Diagnostic Hematology

Master of Clinical Laboratory Sciences in Applied Cytology Techniques

**Department:** Clinical Laboratory Sciences

**College:** Applied medical Sciences

**Institution:** Taif University

**Version:** No 3

**Last Revision Date:** 18/01/2024



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## A. General information about the course:

### 1. Course Identification:

**1. Credit hours: (2 hrs.)**

**2. Course type**

A.  University  College  Department  Track

B.  Required  Elective

**3. Level/year at which this course is offered: (3<sup>rd</sup> level/2<sup>nd</sup> year)**

**4. Course general Description:**

This course will enable students to finalize the literature review that they began in the previous course and put the proposed research plan into action by making visits to potential sites of data collection to gain access, choosing and developing appropriate data collection methods, and identifying and managing any biases that arise during research process. Additionally, this course will guide students on how to enhance the reliability and validity of their research, how to address ethical issues that may arise during implementation of a research project and what procedures to use to guarantee human rights.

**5. Pre-requirements for this course (if any):**

None

**6. Pre-requirements for this course (if any):**

None

**7. Course Main Objective(s):**

Provides students with the opportunity to implement their proposal.

### 2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2 hours /week= 30 hours/semester	100
2	E-learning	N/A	0
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>	N/A	0
4	Distance learning	N/A	0



### 3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	N/A
3.	Field	N/A
4.	Tutorial	N/A
5.	Others (specify).....	N/A
Total		30

### B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Select the most appropriate settings for their research problem and process	K2	Lectures and small group discussion	Assignment
1.2	Select the most appropriate sample according to defined eligibility criteria while ensuring congruence with the related research problem	K2	Lectures and small group discussion	Assignment
1.3	Use the sampling method that is highly congruent with their research problem	K2	Lectures and small group discussion	Assignment
<b>2.0</b>	<b>Skills</b>			
2.1	Finalize the approval request for ethical evaluation by communicating the proposal with an institutional review board (that of either university or the selected research settings).	S3	Lectures and small group discussion	Assignment
2.2	Implement measures that enhance internal,	S3	Presentation and group discussion	Case Study





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	external, construct and statistical conclusion validities			
2.3	Participate in research seminars and presentations	S3	Presentation and small group discussion	Case Study
3.0	Values, autonomy, and responsibility			
3.1	Lead a pilot study to test the methods that will be used in a larger study	V3	Group discussion	Report

### C. Course Content:

No	List of Topics	Contact Hours
1.	Revise Research problem	4
2.	Process of ethical approval	4
3.	Sampling method	4
4.	Tools for data collection	6
5.	Process of Data collection	4
6.	Conduct pilot study	8
Total		30

### D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Ongoing activities e .g individual presentations	Through the semester	60%
2.	Final report	19 <sup>th</sup> week	40%
	Total		100%

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

### E. Learning Resources and Facilities:

#### 1. References and Learning Resources:



<b>Essential References</b>	N/A
<b>Supportive References</b>	N/A
<b>Electronic Materials</b>	International Journal of Medical Science and Innovative Research <a href="#">Saudi Digital Library</a>
<b>Other Learning Materials</b>	N/A

## 2. Educational and Research Facilities and Equipment Required:

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms and Laboratories
<b>Technology equipment</b> (Projector, smart board, software)	Data show, Blackboard and A/V, interactive presentations softwares e.g. <a href="https://www.mentimeter.com/">https://www.mentimeter.com/</a>
<b>Other equipment</b> (Depending on the nature of the specialty)	N/A

## F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
<b>Effectiveness of teaching</b>	Peer evaluators	Direct: Peer evaluation
<b>Effectiveness of student's assessment</b>	Students	Indirect: Questionnaire Survey at the end of each semester.
<b>Quality of learning resources</b>	Program Leaders /Teaching staff/ Development and accreditation committee	Indirect: Review by Department Committee
<b>The extent to which CLOs have been achieved</b>	Program Leaders /Teaching staff/ Development and accreditation committee	Indirect: Review course reports and program annual reports by Department Committee
<b>Other</b>	-	-

**Assessor** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)





## G. Specification Approval Data:

<b>COUNCIL /COMMITTEE</b>	Department council
<b>REFERENCE NO.</b>	06
<b>DATE</b>	21/01/2024

