



Course Specifications

Course Title:	Student's Project
Course Code:	373422-8
Program:	Bachelor's in Clinical Laboratory Sciences (Level-7)
Department:	Clinical Laboratory Sciences
College:	Applied Medical Sciences
Institution:	Taif University



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A. Course Identification

1. Credit hours: 8 hours
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Level 8 / Fourth Year
4. Pre-requisites for this course (if any): Research in Health Sciences (373414—2)
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	8 hours /week= 120 hours/semester	100%
2	Blended	None	0%
3	E-learning	None	0%
4	Correspondence	None	0%
5	Other	None	0%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	N/A
2	Laboratory/Studio	120
3	Tutorial	None
4	Others (specify)	None
	Total	None
Other Learning Hours*		
1	Study	2
2	Assignments	11
3	Library	None
4	Projects/Research Essays/Theses	None
5	Others(writing & meetings)	25
	Total	38

*The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The main purpose of this course is to provide the students with skills required to plan, conduct, analyze, and present the findings of the research conducted. They will learn to write a professional research thesis, use library resources and search engines to find suitable journals and articles relevant to their work and extract important information from these. This course will also provide a platform for students to understand the importance of different types of scientific researches and methods of analysis of data. At the end of this course, students should be able to demonstrate the skills required to develop a research proposal, conduct the practical work for the proposed research, assimilate the results, prepare the dissertation of the research conducted and present their findings.

2. Course Main Objective

This course deals with applying knowledge and skills that are required to design and conduct the practical work. Through this course, the students will be able to display professional management of time, resources and quality issues of project and construct thesis, present and interpret thesis data.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Recognize techniques and procedures for the collection of samples, storage, handling and analysis.	K2
2	Skills:	
2.1	Apply knowledge in designing research, solving research problems, interpreting research data and correlating it with the aim of the research.	S4
3	Competence:	
3.1	Perform laboratory work in safe and effective manner.	C1
3.2	Demonstrate skills to communicate effectively the concepts, principles and information effectively by oral and written means with clarity and confidence.	C3
3.3	Use leadership and problem solving skills in laboratory work.	C4

C (a) Course Content(Practical)

No	List of Topics	Contact Hours
1	Planning your own research project: Choosing a topic of student's specialty, making suitable literature review.	11
2	Writing a research proposal: <ul style="list-style-type: none"> - Clear statement of research question - Goals and objectives of research - Research project design - Setting time frame 	11

	- Anticipated results Budget	
3	Get started to do research work: Collection of samples from the hospitals or other source.	11
4	Working in the hospital laboratories: Analysis of collected samples and collection of data	10
5	Getting started to write dissertation: Preparing the abstract - Aims and Objectives - Methods - Results Keywords	11
6	Structuring Introduction based on thorough literature review	11
7	Materials and Methods: - Number of subjects matched with their sex and age. - Exclusion and inclusion criteria - Types of samples (patient's sample, control samples) - Type of study (cross-sectional etc) Methods of analysis of samples (technique used) and analysis of data (program used).	11
8	Discussion and Conclusion: - Critically evaluate your own research outcomes and relate them to existing ones. Reaching a conclusion that should clearly define the significance of your research and its impact on the community.	11
9	Recommendations if any, derived from the research project Writing Bibliography: - Writing references from journals Writing references from book	11
10	Presentation of research: Designing a scientific poster	11
11	Getting your research published: - Choosing an authentic journal - Impacted and peer reviewed journals Plagiarism	11
Total		120

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Recognize techniques and procedures for the collection of samples, storage, handling and analysis.	<ul style="list-style-type: none"> - Lectures - Practical sessions 	<ul style="list-style-type: none"> - Exams - Lab reports
2.0	Skills		
2.1	Apply knowledge in designing research, solving research problems, interpreting research data and correlating it with the aim of the research.	<ul style="list-style-type: none"> - Lectures - Student learning activities 	<ul style="list-style-type: none"> - Assessment of scientific activities
3.0	Competence		
3.1	Perform laboratory work in safe and effective manner.	<ul style="list-style-type: none"> - Lectures - Practical sessions 	<ul style="list-style-type: none"> - Exams - Lab reports
3.2	Demonstrate skills to communicate effectively the concepts, principles and information effectively by oral and written means with clarity and confidence.	<ul style="list-style-type: none"> - Group discussions - Lectures - Practical sessions 	<ul style="list-style-type: none"> - Exams - Presentations
3.3	Use leadership and problem solving skills in laboratory work.	<ul style="list-style-type: none"> - Problem based learning - Research project 	<ul style="list-style-type: none"> - Exams - Rubric

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-Term Exam	8 th Week	15%
2	Activity	Throughout the semester	5%
3	Practical Report	Throughout the semester	10%
4	Final Practical Exam	16 th Week	20%
5	Final Exam	17 th /18 th Week	50%
	Total		100%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

- Course instructors are available for individual consultation in their free time. They are usually full-time permanent members present on-campus from 8:00 am to 2:30 pm on all working days. Appointments can be made in person with the instructor through email etc. Days and time availability of each instructor are posted on their doors. Course instructors provide a range of academic and course management advice including course planning and its progression.
- Each student at the department of Clinical Laboratory Sciences has an academic adviser who is available for individual consultation and guidance. Appointments can be made in person with the instructor through email etc. Days and time availability of each adviser are posted on their doors. The academic adviser can provide support with time management, exam preparation, clarification of subject requirements, feedback on performance and dealing with personal issues as well.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	None
Essential References Materials	None
Electronic Materials	Plagiarism checker programs
Other Learning Materials	Journals related to each specialty

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms and Laboratories
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Blackboard and A/V
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student's feedback on effectiveness of teaching and quality of courses.	Students	Indirect: Questionnaire Survey at the end of each semester.
Alignment map of course ILOs with that of program ILOs.	Development and accreditation committee	Direct: Student's Performance.
Availability of learning resources, facilities and equipments related to each course.	Students and faculty	Indirect: Questionnaire Survey at the end of each semester.
Evaluation of teaching	Peer evaluators	Direct: Peer evaluation
Standard of student achievement	Examination Committee	Direct: Students grades
Periodical review of course effectiveness and planning for its improvement.	Teaching staff/ Development and accreditation committee and	Indirect: Review by Department Committee

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Meeting
Reference No.	Meeting No.10
Date	10-9-1440

