Course Specifications

Course Title:	**Research in Health Sciences**
Course Code:	**373414-2**
Program:	**Bachelor's in Clinical Laboratory Sciences (Level-7)**
Department:	**Clinical Laboratory Sciences**
College:	**Applied Medical Sciences**
Institution:	**Taif University**

Table of Contents

A. Course Identification

1. Credit hours: 2 hours
2. Course type **a.** University ☐ College ☐ Department ☑ Others ☐ **b.** Required ☑ Elective ☐
3. Level/year at which this course is offered: Level 7 / Fourth Year
4. Pre-requisites for this course (if any)**: None**
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**	2 hours /week= 30 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**	30
2	**Laboratory/Studio**	None
3	**Tutorial**	None
4	**Others** (Exams)	None
	Total	30
Other Learning Hours*		
1	**Study**	19
2	**Assignments**	5
3	**Library**	None
4	**Projects/Research Essays/Theses**	None
5	**Others**(specify)	5
	Total	29

***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

To know the knowledge that highlights the significance of scientific research for the community and its role in development of a nation. In addition, they should be able to design a research proposal to conduct a future work using different types of scientific and medical research and methods and too be able to demonstrate the skills required to conduct the work needed.

2. Course Main Objective

The course will provide the students with skills required to plan, conduct, analyse, and present the findings of the research conducted. They will learn to write a professional research proposal and report, use library resources and search engines. 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.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge:**	
	None	
2	**Skills :**	
2.1	Design research project by using different research information and resources.	S4
3	**Competence:**	
3.1	Demonstrate effective communication skills with colleagues and supervisors as well as leadership.	C3
3.2	Show effective skills in using computer system to get research information and preparing presentation.	C4

C. Course Content

No	List of Topics	Contact Hours
1	Introduction: Significance of scientific research/ different sections of research.	3 hours
2	Types of medical research	2 hours
3	Hypothesis Formulation	3 hours
4	Review of related literature	2 hours
5	Using online resources and other sources for research	3 hours
6	Research design and methods of data collection	2 hours
7	Data analysis- Types of Data	3 hours
8	Writing a research proposal	2 hours
9	Writing a research Thesis	3 hours
10	Paraphrasing and plagiarism	2 hours
11	Research ethics	3 hours
12	Referencing guidelines	2 hours
	Work Groups: Students will be divided into different groups under the supervision of departmental doctors to write a project proposal which will be presented at the end of the semester. Different specialties have been included for research as; Biochemistry, immunity, haematology, histopathology, parasitology and microbiology	
	Total	30

D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.0	**Skills**		
2.1	Design research project by using different research information and resources.	- Lectures - Student learning activities	- Assessment of scientific activities
3.0	**Competence**		
3.1	Demonstrate effective communication skills with colleagues and supervisors as well as leadership.	- Lectures - Group discussion - Practical sessions	- Exams - Assessment of scientific activities
3.2	Show effective skills in using computer system to get research information and preparing presentation.	- Problem- based learning - Research project	- Exams - Rubric

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-Term Exam	8th Week	30%
2	Activity	Throughout the semester	10%
3	Final Exam	17th/18th Week	60%
	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 member 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	None

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms
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	Indirect: Review by Department Committee

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