



Course Specifications

Course Title:	Clinical Practice
Course Code:	373412-3
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	3
6. Mode of Instruction (mark all that apply)	3
B. Course Objectives and Learning Outcomes	3
1. Course Description	3
2. Course Main Objective.....	4
3. Course Learning Outcomes	4
C. Course Content	4
D. Teaching and Assessment	5
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	5
2. Assessment Tasks for Students	5
E. Student Academic Counseling and Support	6
F. Learning Resources and Facilities	6
1. Learning Resources	6
2. Facilities Required.....	6
G. Course Quality Evaluation	7
H. Specification Approval Data	7

A. Course Identification

1. Credit hours: 3 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 7 / Fourth Year
4. Pre-requisites for this course (if any): Clinical biochemistry-1 (373320-3), Clinical Bacteriology (373322-3), Hematology (2) (373323-3), Cytopathology (373326-2).
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	3 hours /week= 45 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	15
2	Laboratory/Studio	30
3	Tutorial	None
4	Others (specify)	None
	Total	45
Other Learning Hours*		
1	Study	40
2	Assignments	10
3	Library	None
4	Projects/Research Essays/Theses	None
5	Others (specify)	6
	Total	56

* 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

This course provides the student with a broad understanding of the lab practical procedures. Topics include: Phlebotomy & Reception, Microbiology, Parasitology, Immunology, Biochemistry, Molecular Biology, Hematology, Quality control, Hormones, Serology, Blood bank and Histopathology & Cytology.

2. Course Main Objective

The main purpose of this course is to make students understand the fundamentals of clinical laboratory sciences and apply theoretical knowledge and correlate it with real practical situations in laboratory testing. At the end of this course, the students should be able to demonstrate an understanding of important laboratory testing protocols and recognize the need to implement these in improving health and well-being of the community.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Recognize techniques and procedures used for specimen collection; and evaluate laboratory data to ensure accuracy and reliability of test results.	K2
2	Skills:	
2.1	Explain pre-analytical, analytical and post-analytical components of clinical laboratory practice.	S1
2.2	Interpret signs and symptoms of diseases with laboratory findings.	S2
3	Competence:	
3.1	Show proficiency in handling the various laboratory wares and instruments used in laboratories.	C1
3.2	Demonstrate professional behavior at all times coherent with the laboratory technologist's code of ethics in all intra- and interprofessional communications.	C2
3.3	Demonstrate effective communication of concepts, principles and information effectively.	C3

C. Course Content

No	List of Topics	Contact Hours
1	Phlebotomy & Reception	4
2	Microbiology	4
3	Parasitology	4
4	Serology & Immunology	4
5	Clinical Biochemistry	4
6	Hormones	3
7	Molecular Diagnostics (PCR)	3
8	Drugs & Toxicology	3
9	Hematology	4

10	Blood Bank	4
11	Histopathology & Cytology	4
12	Hospital Infection Control	4
Total		45

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 used for specimen collection; and evaluate laboratory data to ensure accuracy and reliability of test results.	- Lectures - Practical sessions	- Exams - Lab reports
2.0	Skills		
2.1	Explain pre-analytical, analytical and post-analytical components of clinical laboratory practice.	- Lectures - Practical sessions	- Exams - Assignments. - Lab reports
2.2	Interpret signs and symptoms of diseases with laboratory findings.	- Lectures - Practical sessions - Problem based learning	- Exams - OSPE
3.0	Competence		
3.1	Show proficiency in handling the various laboratory wares and instruments used in laboratories.	- Lectures - Practical sessions	- Exams - Lab reports
3.2	Demonstrate professional behavior at all times coherent with the laboratory technologist's code of ethics in all intra- and interprofessional communications.	- Lectures - Research activities	- Exams - Assessment of Scientific Activity
3.3	Demonstrate effective communication of concepts, principles and information effectively.	- Group discussions - Lectures - Practical sessions	- Exams - Presentations

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Practical Reports	Throughout	20%
2	Presentations	Throughout	20%
3	Attendance and Participation	Throughout	10%
4	Final Activity Report	Last week	20%
5	Final Examination	17 th /18 th Week	30%
6	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	As per requirement
Essential References Materials	As per requirement
Electronic Materials	As per requirement
Other Learning Materials	<ul style="list-style-type: none"> - Power Point Presentations - A/V Aid - Narrated flash animations

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> - Lecture rooms with a minimum seating capacity of 20 students. - Classrooms having the facility of microphone - Both classroom and laboratories should have the facility of projector.
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> - Internet line - Computers - Data show

Item	Resources
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 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

