



Course Specification

— (Postgraduate)

Course Title: Advanced Laboratory Management & Operations
Course Code: 373504-2
Program: Master of Clinical Laboratory Sciences in Molecular Diagnostics
Department: Department of Clinical Laboratory Sciences
College: College of Applied medical Sciences
Institution: Taif University
Version: 2
Last Revision Date: 4 January 2024



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A. General information about the course:

1. Course Identification:

1. Credit hours: (2)

2. Course type

A. University College Department Track

B. Required Elective

3. Level/year at which this course is offered: (Level 1/Year 1)

4. Course general Description:

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

N/A

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

N/A

7. Course Main Objective(s):

The main objective from this course is to have an idea about the management and quality definition, theories, and functions. Also, to understand the Total Quality Management in the laboratory system, the basic planning process & laboratory organization.

By the end of this course the student should have a complete competence in lab management and:

- Develops the capabilities required for staff to become part of laboratory management
- Apply management skills that have a notable impact on laboratory quality
- Be able to assess the performance of the laboratory and the staff members
- The ability to describe the job of the staff members and their responsibility
- To have the totally knowledge in how to be able in solving problems and introduce solutions.

2. Teaching Mode: (mark all that apply)



No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		80%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4	Distance learning		10%

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

No	Activity	Contact Hours
1.	Lectures	30h
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	15h
5.	Others (specify).....	
	Total	45h

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

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Recognize principle of quality assurance and quality control of laboratories	K1	Interactive lectures	Assignment
1.2	Understand rule and responsibilities of management process in medical laboratories.	K2	Interactive lectures	Group discussion
2.0	Skills			
2.1	Implement appropriate management plans in medical laboratories.	S1	Project-Based Learning	Presentation
2.2	Use suitable methods for collection, presentation and interpretation of quality indicators.	S2	Project-Based Learning	Presentation





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
3.0	Values, autonomy, and responsibility			
3.1	Commit ethical, safety and documentation principles in clinical and research laboratories	V1	Interactive lectures Discussion	Assignment Presentation
3.2	Adapt to manage time and resources effectively in a laboratory environment.	V2	In-Class Timed discussion and exercises	Group discussion Presentation

C. Course Content:

No	List of Topics	Contact Hours
1.		
2.		

Total		

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Group discussion	7 th	20%
2.	Assignment	9 th	20%
3.	Group discussion	11 th	20%
4.	Final presentation	14-15 th	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:

Essential References	Clinical Laboratory Management, Second Edition 2013 Editor(s): Lynne S. Garcia, Paul Bachner, Vickie S. Baselski, Michael R. Lewis, Andrea J. Linscott, Dale A. Schwab, John C. H. Steele Jr., Alice S. Weissfeld, David S. Wilkinson, Donna M. Wolk
Supportive References	Up to date Scientific Articles



Electronic Materials	
Other Learning Materials	

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom
Technology equipment (Projector, smart board, software)	Projector and PowerPoint software
Other equipment (Depending on the nature of the specialty)	

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Questionnaire Survey at the end of each semester.
Effectiveness of students assessment	Development and accreditation committee	Consistency of Intended Learning Outcomes of program and courses with that of mission and vision of the program
Quality of learning resources	Students and faculty	Questionnaire Survey at the end of each semester.
The extent to which CLOs have been achieved	Course teacher	Students' grades
Other	Teaching staff/ Development and accreditation committee	Review by Department Committee

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	Department council
REFERENCE NO.	4/ 1441-1442
DATE	18/4/1442- 12/3/2020