Course Specifications

Course Title:	**Infection Control in Hospital**
Course Code:	**373421-2**
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: 2 hours
2. Course type **a.** University ☐ College ☐ Department ☑ Others ☐ **b.** Required ☑ Elective ☐
3. Level/year at which this course is offered: Level 8 / Fourth Year
4. Pre-requisites for this course (if any)**:** - Clinical Bacteriology (373322-3) - Clinical Virology and Mycology (373410-3)
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 (specify)	None
	Total	30
Other Learning Hours*		
1	Study	33
2	Assignments	None
3	Library	None
4	Projects/Research Essays/Theses	None
5	Others(specify)	2
	Total	35

*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 course focuses on students' understanding of community-acquired and healthcare-associated infections. The students should be able to describe the chain of infection as it applies to infection prevention and control, and explain methods to prevent the spread of infection on completing the course. They should be able to identify barriers and personal protective equipment for protection from exposure to potentially infectious material.

2. Course Main Objective

Upon successful completion of the course, the students will know and understand the nosocomial infection sites, sources of infection in hospitals, infection control programs (ICP) & role of infection control and laboratory departments. They will also understand strategies applied for prevention of hospital associated infections for health-care staff and patients; and investigations involved in cases of an infection outbreak.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
1.1	Recognize the nosocomial infection sites, causative microorganisms and sources of infection in hospital environment.	K1
1.2	Outline the strategies that can be employed in prevention of hospital associated infections for health-care workers & patients.	K1
2	**Skills :**	
2.1	None	
3	**Competence:**	
3.1	Demonstrate positive work ethics as well as professional attitude in work place.	C2
3.2	Demonstrate effective communication skills with colleagues and other co-workers in health-care settings	C3

C. Course Content

No	List of Topics	Contact Hours
1	- Introduction - Definitions of HAI - Nosocomial infection sites & Epidemiology	2
2	- Dynamic HAI transmission cycle - HAI Reservoirs and transmission	2
3	- Blood Borne Pathogens in hospitals - Antimicrobial-resistant microorganisms - MRSA and clostridium in KSA hospitals	4
4	- Coronavirus in KSA hospitals & community	2
5	- Organizational structure o Infection control programmes	2

	- National & Hospital programmes	
6	- Nosocomial infection surveillance o Objectives - Strategies	2
7	- Standard and universal preπcautions - HAI isolation precautions	2
8	- Personal protective equipment (PPE) o PPE types and practice - PPE precautions	2
9	- Hand hygiene - Types and practice	2
10	- HAI in clinical Laboratory o Introduction - Types and practice	4
11	- Surgical site infection o HAI associated with intravenous device - Urinary tract HAI	2
12	- How to handle laboratory waste	2
13	- Revision	2
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
1.0	**Knowledge**		
1.1	Define the nosocomial infection sites and microorganisms. the sources of Infection in hospitals and hospital environment & hospital-associated infections.	- Lectures	- Exams
1.2	Define the Prevention of Hospital Associated Infections for medical staff & patients.	- Lectures	- Exams
3.0	**Competence**		
3.1	Demonstrate positive work ethics as well as professional attitude in health care setting.	- Lectures - Research activities	- Exams - Assessment of scientific activities

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.2	Demonstrate effective communication skills with colleagues and other co-workers in health-care settings	- Lectures - Group discussion	- Exams - Assessment of Scientific Activities

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 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	• Jawetz, Melnick, &Adelberg s Medical Microbiology, 2016 • Infection Control Manual
Essential References Materials	None
Electronic Materials	• www.WHO.com • www.CDC.com • www.ASM.com

	• www.theific.org
Other Learning Materials	Journals, Scientific Magazines and Articles. • Journal of clinical microbiology • Canadian journal of infection control • American journal of epidemiology and infection control

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 quality 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