

T6. Course Specification (CS) توصيف المقرر

Institution	Najran University	Date of Report	26/4/1438
College/Department	College of Applied Medical Sciences/ Clinical Laboratory Science department		

A. Course Identification and General Information: التعريف بالمقرر الدراسي ومعلومات عامة عنه:

1. Course title and code	Clinical Microbiology and Immunology (Mic 461)																						
2. Credit hours	2(0+2)																						
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs)	Clinical Laboratory Science Program																						
4. Name of faculty member responsible for the course	Dr.Osman Abdellah Eltyep																						
5. Level/year at which this course is offered	8th level/4rd year																						
6. Pre-requisites for this course (if any) :	General Microbiology Mic 251, Clinical Bacteriology (1) Mic 352, Clinical Bacteriology (2) Mic 354 , Medical Mycology Mic 356 , Medical Virology Mic 355 , Medical Parasitology Mic 457																						
7. Co-requisites for this course (if any):	Not applicable																						
8. Location if not on main campus	: موقع تقديم المقرر إن لم يكن داخل المقر الرئيس للجامعة																						
9. Mode of Instruction (mark all that apply)	<table border="0"> <tr> <td>a. traditional classroom</td> <td><input checked="" type="checkbox"/></td> <td>What percentage?</td> <td><input type="text" value="40%"/></td> </tr> <tr> <td>b. blended (traditional and online)</td> <td><input checked="" type="checkbox"/></td> <td>What percentage?</td> <td><input type="text" value="10%"/></td> </tr> <tr> <td>c. e-learning</td> <td><input type="checkbox"/></td> <td>What percentage?</td> <td><input type="text"/></td> </tr> <tr> <td>d. correspondence</td> <td><input checked="" type="checkbox"/></td> <td>What percentage?</td> <td><input type="text" value="10%"/></td> </tr> <tr> <td>f. other</td> <td><input checked="" type="checkbox"/></td> <td>What percentage?</td> <td><input type="text" value="20%"/></td> </tr> </table>			a. traditional classroom	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="40%"/>	b. blended (traditional and online)	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="10%"/>	c. e-learning	<input type="checkbox"/>	What percentage?	<input type="text"/>	d. correspondence	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="10%"/>	f. other	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="20%"/>
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Comments																							

B. Objectives الأهداف

1. What is the main purpose for this course To provide students of Applied Medical Sciences college with a comprehensive and up-to-date guide to Diagnostic Microbiology including basic scientific knowledge as well as cognitive, psychomotor and interpersonal and numerical skills in the most reliable, easy, attractive and illustrated manner.
2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
a. Practical notebook b. Group assignments c. Problem-based learning

C. Course Description (Note: General description in the form used in the Bulletin or handbook should be attached).

:This course is focus on the practical side in clinical microbiology to the clinical laboratory science student
Course Description

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
1- Urinary tract infections <ul style="list-style-type: none"> • Culture • Staining • Biochemical reaction • Antibiotic sensitivity 	2	8
2- Respiratory tract infections (sputum, throat and mouth specimens) <ul style="list-style-type: none"> • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity 	2	8
3- Diarrhoea and food poisoning(faecal specimens) <ul style="list-style-type: none"> • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity 	2	8
4- Skin and wound infections <ul style="list-style-type: none"> • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity 	2	8

5- Microbiology of meningitis (C.S.F.) • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity	2	8
6- Fever of unknown origin (Blood culture and automated blood culture) • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity	2	8
7- Sexually-transmitted diseases (urogenital specimens) • Culture • Staining • Biochemical reaction ➤ Antibiotic sensitivity	2	8
1- Infectious hepatitis ➤ Detection of HBsAg in serum using ELISA	1	4
Total	15	60

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	0	8	20	24	8	60
Credit	0	4	10	12	4	30

3-Additional private study/learning hours expected for students per week

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table)

Second, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes.

Third, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain).

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge By the end of this course, the students will be able to:		
1.1	Gain knowledge about the microbiological immunological practical techniques and identify the causal microorganisms from the clinical specimens.	Lectures, tutorials and independent study assignments.	practical sessions
1.2	Develop an understanding of prevention and control of infectious diseases Know and identify multi-drug resistant pathogenic bacteria	Lectures, practical laboratory work and groups assignments	practical sessions
2.0	Cognitive Skills By the end of this course, the students will be able to:		
2.1	Choose suitable diagnostic procedures for bacterial disease	Lectures, practical laboratory work and groups assignments	- practical sessions
2.2	Demonstrate the ability to think critically and make reasonable judgments by analyzing, combining and evaluating quantitative and non-quantitative information	Lectures, practical laboratory work and groups assignments	- practical sessions
3.0	Interpersonal Skills & Responsibility By the end of this course, the students will be able to:		
3.1	Acquire basic skills of microbiological techniques for detection and identification of pathogenic bacteria in the microbiology laboratory.	Group assignment, practical laboratory and tutorials	practical sessions
3.2	Perform antimicrobial susceptibility testing with proper interpretations of the laboratory results according to the clinical evaluation of infected patients.	Group assignment, practical laboratory and tutorials	practical sessions
4.0	Communication, Information Technology, Numerical By the end of this course, the students will be able to:		
4.1	-Utilize efficiently the different knowledge resources including the library resources and the web sites	Group assignments and practical laboratory work	practical sessions
4.2			
5.0	Psychomotor By the end of this course, the students will be able to:		

5.1	Examine all the body sample effectively	Laboratory	practical sessions
5.2			

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	1st Mid-term Exam	6th week	30%
2	Assignments and other activities	13th week	5%
3	Attendance	The whole semester	5%
4	Final term Exam	15th week	60%
5	Continues assessment during each practical session	Every week	10%

D. Student Academic Counseling and Support الإرشاد الأكاديمي والدعم الطلابي

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)
Each of The member staffs responsible for practical parts will be available for 2 hours (8 am – 8 pm) in a day per a week for individual student counseling and advice. This should include the time allocation and schedule for teaching staff to meet with students

E. Learning Resources مصادر التعلم

1. List Required Textbooks Lectures handout Practical notebook
2. List Essential References Materials (Journals, Reports, etc.) 1. Medical Microbiology . Jawetz, Melnick and Adelberg's. Latest edition. 2. Bailey and Scott's Diagnostic Microbiology . Baron and Finegold. Latest Edition. 3. Color Atlas of diagnostic Microbiology . Maza LD, Pezzlo M, Baron E. Mosby-year book Inc., USA. Latest Edition 4. Manual of Clinical Microbiology . Murray PR, et al. ASM Press. Latest Edition. 5. Manual for the Laboratory Identification and Antimicrobial Susceptibility Testing of Bacterial Pathogens of Public Health Importance in the Developing World . Perilla MJ et al. CDC and WHO. 6. District laboratory practice in tropical countries . Monica C. Cambridge Univ. Press. Latest edition. 7. Topley and Wilson's Microbiology and microbial infections . Balows A and Sussman M. Hodder Arnold Publication. Latest edition. 8. Zinsser Microbiology . Wolfgang et al. Appelton & Lange Co., CA, USA. Latest edition.
3. List Electronic Materials Web Sites, Facebook, Twitter, etc. 4. List Electronic Materials, Web Sites, Facebook, Twitter, etc. -www.WHO.com -www.CDC.com -www.ASM.com - Saudi Digital Library SDL
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software. مواد تعليمية أخرى مثل البرامج المعتمدة على الحاسب الآلي/الأسطوانات المدمجة، والمعايير المهنية أو اللوائح التنظيمية والبرمجيات.

F. Facilities Required

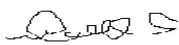
Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Lecture room (20 students capacity) supplied with data show for lectures presentation Laboratory (15 students capacity) supplied with data show, microscopes (one for each student), incubators, ovens as well as reagents and kits for microbiological techniques
2. Computing resources (AV, data show, Smart Board, software, etc.) -
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Library supplied with reference text books, journals and periodicals and computer for searching the net server

2. Computing resources (AV, data show, Smart Board, software, etc.) Yes
Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) - Well organized clinical labs - Hospital lab

G. Course Evaluation and Improvement Processes:

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching - Confidential completion of standard course evaluation questionnaire. - Focus group discussion with small groups of students.
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department - Observations and assistance from colleagues - Independent advice on assignment tasks from the Dean and governing body
3 Processes for Improvement of Teaching - check marking of a sample of examination papers by other staff members - check marking of assignment tasks by the Dean and governing body
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution) - Reviewing the feedback and action plan for improvement will be organized accordingly
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. - Reviewing the feedback and action plan for improvement will be organized accordingly

Name of Instructor: Osman Abdallag Elteyb

Signature: 

Date Report Completed: 19/7/1438H

Name of Course Instructor Osman Abdallag Elteyb
Sheri

Program Coordinator Dr. Bubdor El-

Signature: _____

Date Received: 19/7/1438H