TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should cross-referenced with the program specification.

1. Teaching Institution	Ministry of Higher Education and Scientific Research
2. University Department/Centre	University of Kirkuk-college of Dentistry
3. Course title/code	Microbiology DEBS-318
4. Modes of Attendance offered	Theoretic lectures
5. Semester/Year	Two semester
6. Number of hours tuition (total)	60hours theory and 60 hours practical
7. Date of production/revision of this specification	2020-2021
8. Aims of the Course	
The course aims to give the students the knowledge and understanding about the best protocols and procedures necessary for working safely. The course aims also at rendering the students familiar with the most common oral microbiota and the most appropriate methods for sterilizing dental clinic equipment.	

9· Learning Outcomes, Teaching ,Learning and Assessment Methode

1. Have a broad overview of the current research, and methods used in studying problems in dental caries and periodontal disease.
2. Have an understanding of the broad range of infection diseases affecting the oral cavity.
3. Have an understanding of the clinical and biological factors to be considered in the appropriate use of antimicrobial drugs.
4. Be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretation of laboratory reports.
5. Have and understanding of hospital acquired infections and infections in the compromised host.

B. The skills goals special to the course. B1. Teaching the students in details and for each pathogen , then the proper way for sampling and diagnosis , and finally excreted out the body by using advanced technology to do the goal of teaching.
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Teaching and Learning Methods

Performing practical experiments in pharmacology lab.to clarify the identification of pathogen Use educational videos show type of sampling and identification manual

Assessment methods

Examinations
Seminars and other activities
Sharing in scientific festivals and conference

C. Affective and value goals
C1.aquisition of knowledge about medicines
C2.the skill of making the right decision for the benefit of the patient and based on logical thinking
C3.linking information about medicines and the mechanism of action of the medicine to physiology and diseases
C4.

Teaching and Learning Methods

-theoretical lectures as power point using data show
-educational videos
-guiding students to visit some scientific websites
-Conduct experiments in microbiology lab

Assessment methods

-Theoretical examination
-Practical examination
-Quiz
-Seminars
-Oral examinations

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)
D1.Preparing the student practically in terms of applying knowledge
D2.Thinking about solving problems
D3.Teaching professional ethics
D4.Develop the student's ability to learn using new methods.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	**2**	**Bacterial Structure and Taxonomy**	**Microbiology**	Theoretical lecture using power point	short exam ,semester ,mid and final exam
2	**4**	**Bacterial Physiology and Microbial Genetics**	**Microbiology**	Theoretical lecture using power point	short exam ,semester ,mid and final exam
3	**2**	**Viruses and Prions**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
4	**2**	**Pathogenesis**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
5	**2**	**Antimicrobial Chemotherapy**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
6	**2**	**Diagnostic microbiology and laboratory methods**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
7	**3**	**The immune system**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
8	**3**	**The immune response**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
9	**2**	**Immunity and infection**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**
10	**3**	**Streptococci, Staphylococci and micrococci**	**Microbiology**	**Theoretical lecture using power point**	**short exam ,semester ,mid and final exam**

11	2	Lactobacilli, Compylobacteria, Propionibacteria	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
12	1	Actinomycetes	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
13	1	Clostridia	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
14	1	Bacillus	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
15	3	Neisseria, Veillonella, Parvobacteria and Capnocytophaga	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
16	3	Enterobacteriacaea	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
17	2	Vibrio, Compylobacter and Wolinella	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
18	1	Bacteroides, Provetella and Porphyromonas	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
19	1	Spirochaetes	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
20	1	Fusibacteria and Leptotrichia	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
21	2	Mycobacteria and Legionella	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
22	1	Chlamydia, Rickettsia and Mycoplasma	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
23	4	Viruses of relevance to	Microbiology	Theoretical lecture using	short exam ,semester ,mid and

		dentistry		power point	final exam
24	2	Fungi of relevance to dentistry	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
25	1	Viral hepatitis	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
26	1	Human immunodeficiency virus	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
27	1	Normal flora of the oral cavity	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
28	2	Oral ecosystem and Dental plaque	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
29	2	Microbiology of Dental Caries	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
30	3	Principle of infection control dentistry	Microbiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
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1	2	Sterilization &disinfection(physical)	Microbiology	Diagnostic microbiology and laboratory methods	
2	2	Chemical sterilization	Microbiology	Diagnostic microbiology and laboratory methods	
3	2	Bacterial morphology &staining(simple stain)	Microbiology	Diagnostic microbiology and laboratory methods	
4	2	Differential stain (gram's	Microbiology	Diagnostic microbiology and	

		stain)		laboratory methods	
5	2	Acid fast stain	Microbiology	Diagnostic microbiology and laboratory methods	
6	2	Special stain (spore stain)	Microbiology	Diagnostic microbiology and laboratory methods	
7	2	Capsule stain	Microbiology	Diagnostic microbiology and laboratory methods	
8	2	Bacterial motility	Microbiology	Diagnostic microbiology and laboratory methods	
9	2	Culture media	Microbiology	Diagnostic microbiology and laboratory methods	
10	2	Pure culture &culture characteristic	Microbiology	Diagnostic microbiology and laboratory methods	
11	2	Antimicrobial sensitivity test	Microbiology	Diagnostic microbiology and laboratory methods	
12	2	Physical properties (IMVIC tests)	Microbiology	Diagnostic microbiology and laboratory methods	
13	2	Urease-Catalase-	Microbiology	Diagnostic microbiology and	

		coagulase&Oxidase.		laboratory methods	
14	2	TSI & Gelatinase test	Microbiology	Diagnostic microbiology and laboratory methods	
15	2	Staphylococcus spp.	Microbiology	Diagnostic microbiology and laboratory methods	
16	2	Streptococcus spp.	Microbiology	Diagnostic microbiology and laboratory methods	
17	2	Streptococcus pneumonia	Microbiology	Diagnostic microbiology and laboratory methods	
18	2	Neisseria spp.	Microbiology	Diagnostic microbiology and laboratory methods	
19	2	Enterobacteriaceae .E.coli & Klebsiella spp.	Microbiology	Diagnostic microbiology and laboratory methods	
20	2		Microbiology	Diagnostic microbiology and laboratory methods	
21	2		Microbiology	Diagnostic microbiology and laboratory methods	
22	2	Lactobacillus	Microbiology	Diagnostic microbiology	

		spp.		and laboratory methods	
23	2	Mycobacterium spp	Microbiology	Diagnostic microbiology and laboratory methods	
24	2	Corynebacterium spp.	Microbiology	Diagnostic microbiology and laboratory methods	
25	2	Anaerobic bacteria.	Microbiology	Diagnostic microbiology and laboratory methods	
26	2	Actinobacillus spp.	Microbiology	Diagnostic microbiology and laboratory methods	
27	2	Candida spp.	Microbiology	Diagnostic microbiology and laboratory methods	
28	2	Actinomysis spp.	Microbiology	Diagnostic microbiology and laboratory methods	
29	2	Normal flora of the mouth	Microbiology	Diagnostic microbiology and laboratory methods	
30	2	Serology tests	Microbiology	Diagnostic microbiology and laboratory methods	

11. Infrastructure	
1. Books Required reading:	• Essential microbiology for dentistry
2. Main references (sources)	Samaranayake
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

12. The development of the curriculum plan
Check out curriculum of the world prestigious universities to raise the level of science in order to develop with science and work in twinning with most important and developed universities.