Course Description Form

1. Course Name: microbiology

2. Course Code: Hopt71204

3. Semester : second Semester

4. Description Preparation Date:

5. Available Attendance Forms: Theoretical- practical

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours

7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives

Course Objectives

.Introduce students to microbiology and the microorganisms surrounding us.
.Explain how microorganisms can be utilized in medical fields.
.Clarify their effects on human health.
Identify pathogenic microorganisms and methods of prevention.

9. Teaching and Learning Strategies

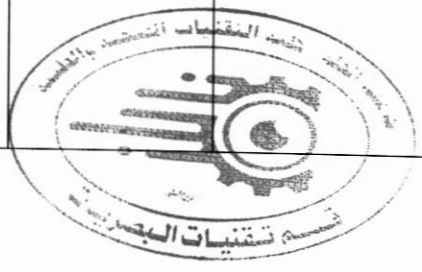
Strategy	Lectures using PowerPoint presentations Educational videos Guiding students to useful scientific websites (Practical laboratory demonstrations (models

10. Course Structure

Week	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	2 theoretical+ 2practical	Introduction to microbiology: microorganisms, bacteria, classification, structure, and function	Theoretical+ practical	Quiz+Reports
3	2 theoretical + 2 practical	Culture media and microbial growth	Theoretical+ practical	Quiz+Reports
4	2 theoretical + 2 practical	Antibiotics and antibiotic resistance	Theoretical+ practical	Quiz+Reports



5	2 theoretical + 2 practical	Fungi: characteristics, reproduction, and classification	Theoretical+ practical	Quiz+Reports
6+7	2 theoretical + 2 practical	Viruses: structure, classification, and reproduction	Theoretical+ practical	Quiz+Reports
8	2 theoretical + 2 practical	Parasites: introduction and host-parasite relationship	Theoretical+ practical	Quiz+Reports
9	2 theoretical + 2 practical	Classes of parasites: protozoa, helminths, ectoparasites	Theoretical+ practical	Quiz+Reports
10	2 theoretical + 2 practical	Helminths: structure and classification	Theoretical + Practical	Quiz+Reports
11+12	2 theoretical + 2 practical	Immune system	Theoretical + practical	Quiz+Reports
13	2 theoretical + 2 practical	Antigen and antibodies	Theoretical + practical	Quiz+Reports
14	2 theoretical + 2 practical	Antigen- antibody reaction	Theoretical + practical	Quiz+Reports
15	2 theoretical + 2 practical	Sterilization and disinfection	Theoretical + practical	Quiz+Reports



11.Course Evaluation
Attendance: 5% Daily quizzes: 10% Class participation: 5% Midterm exam: 30% Final exam: 60% Total: 100%

12.Learning and Teaching Resources	
Required textbooks (curricular books, any)	Practical Microbiology – Levinson
Main references (sources)	Jawetz's Medical Microbiology
Recommended books and references (scientific journals, reports...)	Scientific journals and reports
Electronic References, Websites	Updated and specialized scientific websites microbiolog

Yasmeen

د. ياسمين رياض

رئيس القسم

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