Course Description Form

1. Course Name: biology	
2. Course Code:	
3. Semester / Year:1-2 2023/2024	
4. Description Preparation Date:2023-2024	
5. Available Attendance Forms: Daily attendance	
6 Number of Credit Hours (Total) / Number of Units 2 Hours (Total) 20 was	1-
6. Number of Credit Hours (Total) / Number of Units 2 Hours (Total) 30 wee	K
7. Course administrator's name (mention all, if more than one name)	
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ian zamab.n@uokerbaia.euu.iq	
Course Objectives	8. 8
Course Objectives It includes a description of the •	
naterial, the purpose of its study	
d the philosophy of its teaching,	
as this course aims to study the	
principles of	
Biology and the most important •	
netic laws and the importance of studying and classifying all living	
anisms and the role of primitive	
organisms	
And high-end on human health ●	
and the study of diseases and	
amage to some microorganisms	
n the organs of the human body	
.Especially the eye ●	

9. Teaching and Learning Strategies

Strategy

- 1. Education Strategy Collaborative Concept Planning
- 2- Brainstorming education strategy.
- 3. Education Strategy Notes Series
- 4- Presentation, training, discussion research and reports

10. Course Structure

Wee	Но	Required Learning	Unit or subject	Learning	Evaluation method
k	urs	Outcomes	name	method	
1	2	Knowledge	Definition of Biology, Biological Kingdom.	Use whiteboard and display	Daily exam and oral questi ons
2	2	Knowledge	Prokaryotes and eukaryotes.	Use whiteboard and display	Daily exam and oral questi ons
3	2	Knowledge	The cell: Introduction, structure and function to the organelle.	Use whiteboard and display	Daily exam and oral questi ons
4	2	Knowledge	The cell: Introduction, structure and function to the organelles (Mitochondria, Free ribosomes, Rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi apparatus, Lysosomes (primary and secondary lysosomes), Microtubules, cilia, flagella and centrioles.	Use whiteboard and display	Daily exam and oral questi ons
5	2	Knowledge	The tissue (types and properties).	Use whiteboard and display	Daily exam and oral questi ons
6	2	Knowledge	Classifiation tissue.	Use whiteboard and display	
7	2	Knowledge	Nucleic acid, DNA structure, properties.	Use whiteboard and display	Daily exam and oral questi ons
8	2	Knowledge	RNA structure, properties.	Use whiteboard and display	Daily exam and oral questi ons

9	2	Knowledge	Transprtation of biological wastes International Transport Regulations The Basic Triple Packaging System	Use whiteboard and display Use	Daily exam and oral questi ons
10	2	Knowledge	Overview of biological safety and security equipment	whiteboard and display	Daily exam and oral questi ons
11	2	Knowledge	Introduction to Biosafety and Security • Key components of Biorisk Management • Components of safety in all laboratories Universal safety precautions	Use whiteboard and display	Daily exam and oral questi ons
12	2	Knowledge	Biosafety training	Use whiteboard and display	Daily exam and oral questi ons
13	2	Knowledge	Biosafety training	Use whiteboard and display	Daily exam and oral questi ons
14	2	Knowledge	biosafety rules simulation 3D	Use whiteboard and display	Daily exam and oral questi ons
15			examinati	Use whiteboard and display	Daily exam and oral questi ons
16	2	Knowledge	Replication of DNA	Use whiteboard and display	Daily exam and oral questi ons
17	2	Knowledge	Transcriptio n, protein synthesis and type of mutation.	Use whiteboard and display	Daily exam and oral questi ons
18	2	Knowledge	Division Cell (Mitosis and meiosis)	Use whiteboard and display	Daily exam and oral questi ons
19	2	Knowledge	Mitosis	Use whiteboard and display	Daily exam and oral questi ons
20	2	Knowledge	Gametogene sis	Use whiteboard and display	Daily exam and oral questi ons
21	2	Knowledge	Spermatoge nesis and oogenesis	Use whiteboard and display	Daily exam and oral questi ons

22	2	Knowledge	Introduction of bacteria (Shape, arrangement, size, gram stain).	Use whiteboard and display	Daily exam and oral questi ons
23	2	Knowledge	Bacterial staining techniques, Gram stain	Use whiteboard and display	Daily exam and oral questi ons
24	2	Knowledge	Media and nutritional requirement	Use whiteboard and display	Daily exam and oral questi ons
25	2	Knowledge	Introduction of Viruses	Use whiteboard and display	Daily exam and oral questi ons
26	2	Knowledge	Introduction of Parasite	Use whiteboard and display	Daily exam and oral questi ons
27	2	Knowledge	Introduction of Mycology.	Use whiteboard and display	Daily exam and oral questi ons
28	2	Knowledge	Sterilization and disinfecting	Use whiteboard and display	Daily exam and oral questi ons
29	2	Knowledge	Eye infections, Bacterial eye infection, Fungal eye infection. Parasitic eye infection, Viral eye infection.	Use whiteboard and display	Daily exam and oral questi ons
30			examinati		

11. Course Evaluation

5 marks are calculated on reports

5 points are calculated on daily exams

5 degrees are calculated on the daily preparation

And the rest of the grade is for the monthly exams

12. Learning and Teaching Resources

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Required textbooks (curricular books, if any)	Biology Books
Main references (sources)	Curriculum scheduled within t sectoral committees
Recommended books and references (scientific journals, reports)	Biology Raven et al The cell M. Prakasn

Electronic References, Websites	ncbi,google scholar,reserachgate

Assist prof: Zainab Nizar Jawad