Course Description

1. Course Name	
Human biology	
2. Course Code	
111	
3. Semester/Year	
1st Class, 1st Semester	
4. Date this description was prepared	
15-02-2024	
5. Available attendance forms	
Attendance study	
6. Number of academic hours (total) / number of units (total)	
45 hours Theory and Laboratory	
7. Name of course coordinator(s):	
Name: Dr. Suhair Issa	
8. Course objectives	
Objectives of the study subject	دراسة تكوين جسم الإنسان وأنواع هياكل الخلايا وأنواع الأنسجة والعظام والهيكل العظمي والمفاصل والعضلات بالإضافة إلى التغذية. ويشرح علم الأحياء البشري أيضاا بالتفصيل أجهزة الجسم المختلفة وعلم الوراثة البشرية. في نهاية المقرر يجب أن يكون الطالب قادرا على وصف تكوين الجسم البشري، وبنية أجهزة الجسم ووظيفتها، وعلم الوراثة البشرية مثل وراثة مندلين، وتقسيم الكروموسومات، ومصطلحات مثل الأليل، والموضع البشري، والمتغاير الزيجوت.
9. Teaching and learning strategies	

Education strategies **Learning strategies**	- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Concept mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Examples strategy

10. Course structure

Week	Hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	• 3 • 2	Cognitive outputs 1- How to deal with scientific equipment 2- Learning using different scientific techniques 3- Analyzing the results of pharmaceutical analysis tests, discussing them, and using them in the drug design and formulation processes. 5- The ability to write and draft pharmaceutical laboratory reports on the results of scientific	Biology	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
2	• 3 • 2		Cell Tissues, bone and cartilages	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments

3	● 3	examinations and tests and the ability to	Tissues, bone and cartilages	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester

	● 2	deduce the results and their effects from the test. Acquiring skills - Prep aring modern designs for drug composition and preparation methods - Analy zing, discussing, and using the results of pharmaceutica l tests in the design and evaluation processes of the prepared drug. -Acquire skill in writing scientific reports Emotional and value outcomes - Thinki ng skills through translating, analysing, evaluating and			-Conduct laboratory experiments
4	● 3 ● 2		Nervous system (central & peripheral)	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
5	● 3 ● 2		Nutrition	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
6	● 3 ● 2		Digestive system (Mouth, Esophagus, Stomach)	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments

7	● 3 ● 2	extracting ideas - Instilling moral values for proper dealing with patients Transferable general and qualifying	Digestive system (intestine)	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
8	● 3 ● 2		Excretory system & respiration	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester

		skills (other skills related to employability and personal development). - Performing practical experiments - Acquiring skill in using computers - Giving the student confidence through discussing seminars - Acquire skill in writing reports - Acquiring driving skills - Acquiring skill in dealing			and semester -Conduct laboratory experiments
9	● 3 ● 2		Human genetics (chromosomes & semi-lethal genes)	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
10	● 3 ● 2		Skin	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments

11	• 3 • 2		Circulatory system	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments
12	• 3 • 2		Immunity (Inflammation, immunity & the blood , immunity to disease) •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester -Conduct laboratory experiments

11.Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation and daily, oral, and monthly exams
Editorial, reports, etc

- Practical exam20
- The midterm exam is 20 marks
- The final exam 60 marks

12. Learning and teaching resources

Reference text	: Johnks and Lnglis (eds.), Text Book of Human Biology, latest edition
Main references (sources)	Textbook by Michael Windelspecht and Sylvia Mader latest edition
Recommended supporting books and references (scientific journals, reports)	
references , websites	**https://www.mtu.edu/biological/undergraduate/human-biology/what/**