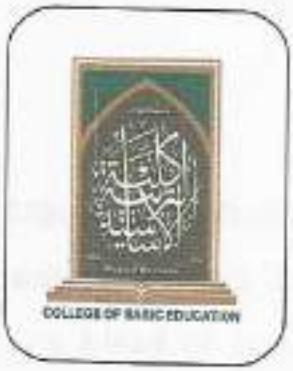

Ministry of Higher Education and Scientific Research
Scientific Supervision and Evaluation Authority
Quality Assurance and Academic Accreditation Department
Accreditation Department

Description of the academic program and curriculum for the Department of Science

2025-2026

:Introduction

The educational program is a coordinated and organized package of courses that includes procedures and experiences organized into purpose is to build and refine the skills of course vocabulary. Its main graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs, such as the external .ramexaminer prog

The academic program description provides a brief summary of the program's main features and courses, indicating the skills that students are working to acquire based on the academic program's because it objectives. The importance of this description is evident represents the cornerstone for obtaining program accreditation, and it is written by the teaching staff under the supervision of the scientific .committees in the academic departments

e This second edition of the guide includes a description of th academic program after updating the vocabulary and paragraphs of the previous guide in light of the developments and changes in the educational system in Iraq, which included a description of the system), as academic program in its traditional form (annual, semester well as adopting the generalized academic program description dated ٢٩٠٦/٣M T according to the Department of Studies' letter with regard to programs that adopt the Bologna Process as ٢٠٢٥/٣/٥ .the basis for their work

but emphasize the importance of writing In this regard, we cannot to ensure the smooth descriptions of academic programs and courses .running of the educational process

Concepts and terminology:

The academic program description provides a concise : Description Program of its vision, mission, and objectives, including an accurate summary description of the targeted learning outcomes according to specific learning .strategies

This provides a concise summary of the course's key : description Course features and expected learning outcomes, demonstrating whether the student It is derived from .has made the most of the available learning opportunities .the program description

us vision for the future of the academic program to An ambitio :Program Vision .be a sophisticated, inspiring, motivating, realistic and applicable program

outlines the goals and activities necessary to achieve Briefly :Program Mission .paths and directions them, and identifies the program's development

Program objectives: These are statements that describe what the academic program intends to achieve within a specific time period and are measurable and observable.

Curriculum structure: All courses/study materials included in the academic program according to the approved learning system (semester, annual, Bologna track), whether required (ministry, university, college and scientific department), with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values acquired by the student after the successful completion of the academic program. The learning outcomes for each course must be defined in a way that achieves the program's objectives.

strategies and learning: They are plans followed to achieve learning and learning student teaching strategies and are the strategies used by faculty members to enhance learning outcomes. This encompasses all classroom and extracurricular activities objectives. To achieve the learning outcomes of the program.

for the Science Department Template Academic Program Description

University Name: University of Diyala
College/Institute: College of Basic Education
Department: Department of Science
Academic or Professional Program Name: Bachelor of Education/Life Sciences
Certificate Name: Bachelor of Education/Life Sciences

Academic System: Semester-based

Date of Description Preparation: October ١, ٢٠٢٥
Date of File Completion: October ١٥, ٢٠٢٥

Signature:
Name of Scientific Assistant:
Prof. Dr. Haider Abdulbaqi
Date: ١٥/١٠/٢٠٢٥

Signature:
Department Head: Dr. Nawwar Thamer Mohammed
Date: ١٥/١٠/٢٠٢٥

The file was reviewed by
Division Quality Assurance and University Performance
Name of the Director of the Quality Assur
University Performance Division : Dr. Widian Habib Hamid and ance
Data: ١٥.١٠.٢٠٢٥
Signature

Approval by the Dean
Assistant Professor Dr. Ayman Abdul Aoun Nazal

1. Program Vision

- Applying and implementing all scientific and educational directives instructions that carry a constructive vision and contemporary and policies necessary to accomplish the tasks and goals of the department in order to improve the performance of the scientific, specialized, service and training aspect in the field of quality ssurance in the department in service of the public interest and the a outputs of our students by transferring these experiences to the .schools in which they will study
- The department continuously develops its curricula to keep pace evelopments in the field of science in its with modern scientific d .various specializations
- The department seeks to build advanced scientific laboratories by equipping them with modern laboratory equipment that will contribute significantly to postgraduate studies and scientific .research

https://basicedu.uodiyala.edu.iq/%D8%B1%D8%A4%D9%8A%D8%A9-%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D8%B9%D9%84%D9%88%D9%85 /

2. Program message

class of Bachelor's its first graduated department the ١٩٩٨ In degree holders and continues to supply government of The Department . and outside the province departments within is academic mission and its fulfilling to contributes Science . graduates of caliber distinguished a producing to committed

and knowledge Between pool Academic y y behind the enjoy You the job market while in required The basic skills skills M Q And the . standards ethical to adhering simultaneously the education of the department's students and Regarding Please their laboratory skills, as well as the tasks of the teaching raising researchers in the field of scientific and applied research in . specialized research laboratories

https://basicedu.uodiyala.edu.iq/%D8%B1%D8%A4%D9%8A%D8%A9-%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D8%B9%D9%84%D9%88%D9%85 /

3. Program objectives

1. Preparing teachers who are scientifically and educationally .qualified, armed with faith and love of country
2. Conducting scientific research in the various disciplines of the .department that are related to the national development plan
3. Providing scientific advice related to the department's .specializations to various community institutions
4. continuing education through opening Community service and training and consulting courses and scientific meetings with members of .educational institutions
5. To provide graduates of the department with the skills and .diesknowledge that qualify them to complete their postgraduate stu
6. .Developing the teaching staff
7. .Developing the educational process
8. Serving the local environment through the department's role in spreading scientific and environmental awareness by holding seminars

.and ongoing meetings

9. on of the strategic plan for the Contributing to the preparati
. college and the university

10- specialists To meet the demands of the qualification Preparation and through diversification science public and private sector job market in nts to apply the And training stude .in learning and teaching methods world problems-acquired knowledge and skills to solve real.

11- It is possible that they And with For students Suitable climate Authority skills in Their acquired Their acquaintances Application from ... are identifying the needs and problems of society and social issues related to their specialization

12- science, both of Distinguished in the field Offering academic programs theoretical and applied, it conforms to international standards of lity and meets the needs of the labor marketacademic qua.

13- science in of Developing scientific research in the fields Encouragement teaching the fields of artificial intelligence and science and in ، general .in particular methods

14- .biology skills Graduating a student proficient in

15- .To graduate a student capable of teaching biology subjects

16- To graduate a student capable of explaining the structure of cells, their .functions, and their various vital processes

17- up of To graduate a student capable of explaining the genetic make .living organisms

18- To graduate a student capable of explaining the molecular structure of .biological compounds

19- To graduate a student capable of explaining the interactions between .living organisms and their environment

20- of describing living organisms according To graduate a student capable to their morphological, anatomical, and genomic characteristics , and .their interactions with the environment

21- To graduate a student capable of explaining the various vital processes .in living organisms

22- a student capable of explaining the concepts of genetic To graduate .engineering and its applications

23- To graduate a student capable of explaining the concepts of .microbiology and its applications

24- ،Preparing a specialized university teacher with a balanced personality

aware of his national, educational, and professional role, armed with general culture, specialized knowledge, upright conduct, and the ethics of the educational profession, and preparing him to keep pace and . technology ernwith contemporary life in light of the data of mod equipping him with skills that qualify him to perform his assigned tasks in educational schools, especially in the general pure sciences life) specializations with their branches and the specializations of .(sciences

- objectives Cognitive

A-١ Enabling students to acquire knowledge and understanding of .scientific information accurately

A-٢ Enabling students to acquire knowledge and understanding of .information in the field of biology in a functional way

A-٣ Enabling students to acquire knowledge and understanding of .scientific and practical skills in a functional way

A-٤ Enabling students to acquire the knowledge and understanding . of how to adapt to their peers and others effectivcly

A-٥ Enabling students to acquire knowledge and understanding of .scientific terminology in English

A-٦ Enabling students to acquire knowledge and understanding of .good teaching standards

A-٧ Enabling students to acquire knowledge and understanding .their inclinations and attitudes related to

B- The program of based objectives-skills

B-١ Enabling students to solve problems related to the intellectual .framework of biology

B-٢ Enabling students to solve problems related to scientific terminology .English in

B-٣ Enabling students to solve problems related to the teaching .profession and how to deal with students

Teaching and learning methods

Using different methods to teach the subject to students, including lectures , -boratory methods, field trips and visits, problemdiscussions, exploration, la

solving methods, and other methods that make it easier for the student to understand the school subject.
Assessment methods - Daily tests with multiple questions for the study materials. - Asking competitive questions that foster a spirit of competition among students. Assigning homework to students
C- Affective and value-based objectives. A-1 Enabling students to think and analyze topics related to biology. Q-2 Enabling students to think and analyze topics related to scientific theories. Q-3 Enabling students to think and analyze topics related to the practical application of scientific theories. C-4 Enabling students to think and analyze topics related to teaching and how to deliver information to learners in the future.
Teaching and learning methods We employ a variety of teaching methods to introduce the fundamentals of critical thinking and analysis. These methods include discussion and questioning, along with assigning homework that requires independent thought and problem solving, while also teaching students scientific methods of thinking and analysis.
Assessment methods - Daily exams with questions that require independent intellectual answers. - Assigning grades for the homework assignments given to the student. - Setting grades for competitive questions directed to students that require intellectual and subjective answers.
D- General (personal development and transferable skills) and other skills related to employability. D-1 Enabling students to use laboratory equipment. D-2 Enabling students to choose the teaching method that is appropriate for the subject. D-3 Enabling students to pass professional tests and interviews that take place during the job application process. D-4 Enabling students to continuously develop themselves and their professional lives after graduation.
Teaching and learning methods Using different methods to teach the material to students, including lectures, discussions, exploration, laboratory methods, field trips and visits, problem solving methods, and other methods that make it easier for the student to understand the course material. In addition, some professional bodies are invited, and seminars are organized with the students.

Assessment methods
- Daily exams for students.
- Conducting tests similar to the field and work environment.
- Sending students for training in training institutions.
- Participating in volunteer, guidance, and awareness raising activities.
- Monthly and final exams.

٤. Program accreditation

No, it has not received accreditation from any entity, and we are working to obtain it in accordance with the national standards for accrediting the SPA (Schools of Education Group) program.

٥. Other external influences

Ministry of Higher Education and Scientific Research
University of Diyala

٦. Program structure

Program structure	Number of courses	Study unit	Percentage	* comments
Institutional requirements	١٣	٢٦	%٢٥	
College requirements	١٣	٢٣	%٢٥	
Department requirements	٢٦	٦٣	%٥٠	
Summer training	nothing	nothing		
Other	nothing	nothing		

* The notes may include whether the course is core or elective.

٧- Program Description

Numb	Year / Level	Course code	Course name	Credit Hours

er of units	mergi ng watch es	practica l	theoreti cal			/
٢	٣	٢	١	computer	SCBB04CO116	First/Fir st
٢	٢	----	٢	Democracy and human rights	SCBB04HR115	
٣	٣	----	٣	Developmen tal psychology	SCBB04GP114	
٤	٥	٢	٣	General Biology	SCBB04GB111	
٤	٥	٢	٣	General Chemistry	SCBB04GC112	
٢	٢	----	٢	Logic (Mathematics)	SCBB04L113	
١٧	٢٠	٦	١٤			the total

Numb er of units	Program Description					
	Credit Hours			Course name	Course code	Year / Level /
	mergin g watche s	practica l	theoreti cal			
٢	٢	----	٢	Arabic	SCBB04AL117	First/Se cond
٢	٢	----	٢	English language	SCBB04EL124	
٣	٣	----	٣	Principles of Education	SCBB04OBEP123	
٢	٢	----	٢	Islamic Education	SCBB04IE125	

٤	٥	٢	٣	General Physics	SCBB04GP121	
٣	٤	٢	٢	human biology	SCBB04HB122	
٢	٢	——	٢	Laboratory safety and security	SCBB04SSL126	
١٨	٢٠	٤	١٦			the total

Number of units	Program Description					
	Credit Hours			Course name	Course code	Year / Level /
	merging watches	practical	theoretical			
٢	٢	——	٢	Arabic	SCBB04AL215	Second/ Third
٢	٢	——	٢	English language	SCBB04EL216	
٢	٣	٢	١	computer	SCBB04CO217	
٣	٣	٢	١	Curricula and textbooks	SCBB04PH214	
٤	٥	٢	٣	Microbiology	SCBB04MB213	
٣	٤	٢	٢	cell biology	SCBB04CL211	
٢	٢	——	٢	Virology	SCBB04VI212	
١	١	——	١	Crimes of the Ba'ath regime	SCBB04CL227	
١٩	٢٢	٨	١٤			the total

Number of units	Program Description					
	Credit Hours			Course name	Course code	Year / Level /
	mergin g watche s	practica l	theoreti cal			
٢	٣	٢	١	Psychology of teaching classroom thinking	SCBB04ES225	Second/ Fourth
٢	٢	----	٢	Educational Psychology	SCBB04PC226	
٣	٤	٢	٢	Invertebrate science	SCBB04IV222	
٣	٤	٢	٢	Histology and Embryology	SCBB04HE221	
٢	٢	----	٢	Biochemistry	SCBB04BC223	
٣	٤	٢	٢	Plant physiology	SCBB04HP224	
١٥	١٩	٨	١١			the total

Number of units	Description Program					
	Credit Hours			Course name	Course code	Year / Level /
	mergin g watche s	practica l	theoreti cal			

٣	٣	----	٣	General teaching methods	SCBB04GMT326	/Third Fifth
٣	٣	----	٣	Educational research methodology	SCBB04EC317	
٣	٤	٢	٢	Animal physiology	SCBB04AP321	
٣	٤	٢	٢	parasitology	SCBB04P312	
٤	٥	٢	٣	Plant and animal production	SCBB04PP316	
١٦	١٩	٦	١٣			the total

Number of units	Program Description					
	Credit Hours			Course name	Course code	Year / Level /
	mergin g watche s	practica l	theoreti cal			
٢	٢	----	٢	Measuremen t and evaluation	SCBB04ME325	/Third Sixth
٢	٢	----	٢	Curricula and textbooks	SCBB04C ٤١٦	
٣	٤	٢	٢	Immunology	SCBB04IS322	
٣	٤	٢	٢	entomology	SCBB04GE323	
٢	٢	----	٢	Methods of teaching science	SCBB04SM ٤١٣	

٢	٢	----	٢	Plant classification	SCBB04T314	
٢	٢	----	٢	Environmental Education and Health	SCBB04PP	
٢	٢	----	٢	sustainable development	SCBB04PP	
١٨	٢٠	٤	١٦			the total

Number of units	Program Description					
	Hours Credit			Course name	Course code	Year / Level /
	mergin g watche s	practi cal	theoreti cal			
٢	٢	----	٢	Arabic literature	SCBB04AL418	Fourth/ Seventh
٢	٢	----	٢	Professional ethics	SCBB04AL	
٢	٢	----	٢	Educational Administration and Supervision	SCBB04EMS417	
٢	٤	٤	----	Practical training (observation)	SCBB04GMT327	
٣	٤	٢	٢	Algae and fungi	SCBB04AF315	
٣	٤	٢	٢	Genetics	SCBB04GEN412	
٢	٢	----	٢	Sera and	SCBB04SV411	

				vaccines		
٢	٢	----	٢	Endocrine physiology	SCBB04AL	
١٨	٢٢	٨	١٤			the total

Number of units	Credit Hours			Course name	Course code	Year / Level
	mergin g watche s	practi cal	theoreti cal			
١٢	١٢	١٢	----	The app	SCBB04TP421	Fourth/ Eighth
٣	٣	٣	----	Graduatio n project	SCBB04TP422	
١٥	١٥	١٥				the total

Program Description

Expected learning outcomes of the program -٨	
Knowledge	
Knowledge and understanding -١A	Cognitive objectives
Enabling students to acquire knowledge and -٢A biological understanding in introducing the various . sciences	
Enabling students to gain knowledge and -٣A understanding of the greatness of God Almighty	

.through His creation Enabling students to gain knowledge and -٤A understanding of the influence of different .and on life in general organisms on each other Enabling students to acquire knowledge and -٥A understanding of things that the mind cannot .eimagin	
	Skills
performance Skills in practical – ١B	
Skills related to teaching methods and scientific -٢B .research	
	Values
Enabling students to think and analyze topics - .related to biology Enabling students to think and analyze -٢Q .scientific theories topics related to Enabling students to think and analyze -٣Q to the practical application of topics related .scientific theories students to think and analyze topics Enabling -٤C teaching and how to deliver information related to .reto learners in the futu	

9.Teaching and learning strategies
Strategies and methods of teaching and learning adopted in the .implementation of the program in general Explanation and explanation of the course material 1- How to display the form 2- Lecture Method 3- method learning-Self 4- discussion, exploration, In addition to learning-Reliance on e - solving method and -laboratory method, field trips and visits, problem other methods that make it easier for the student to understand the

professional bodies and subject matter, as well as inviting some .organizing seminars with students

10. Assessment methods

.Implementing it in all stages of the program in general

1. Daily tests with specific questions
2. .Assigning grades for homework and class participation
3. task of completing research papers and reports Assigning students the .on the course material
4. .Oral tests
5. Quick and surprise daily quizzes
6. .Monthly tests

11. Faculty

Faculty members

Faculty preparation		Special requirements/skills (if any	Specialization		the name	academic rank
lecturer	angel		private	general		
///	Permanent Angel		T.T. Sciences	Life Sciences	Prof. Dr. Majid Abdul Sattar Abdul Karim	.Mr
///	Permanent Angel		Chemistry	Science	Prof. Dr. Faleh Abdul Hassan Owaid	.Mr
///	Permanent Angel		Methods of teaching science/chemistry	Chemistry	A. Hiyam Ghaeb Hussein Abdullah	.Mr

///	Permanent Angel		Atomic physics	physics	Prof. Dr. Wasfi Muhammad Kazim	.Mr
///	Permanent Angel		Solid state physics	Physics	Prof. Dr. Zuhair Husscin Jawad Kazem	assistant professor
///	Permanent Angel		Philosophy of Education	Philosophy of Education	Dr. Israa Akef Ali	assistant professor
///	Permanent Angel	Scientific Promotions Committee	state -Solid physics	Physics	Dr. Ferial Kadhim Dawood	assistant professor
///	Permanent Angel		Microbiology	Life Sciences	Dr. Aws Zamel Abdulkarim	assistant professor
///	Permanent Angel		Medical and molecular viruses	Microbiology	Dr. Tamara Amer Taha	assistant professor
///	Permanent Angel		of Methods teaching life sciences	Teaching methods	Prof. Dr. Qahtan Adnan Mahmoud	assistant professor
///	Permanent Angel		Microbiology	Life Sciences	Dr. Sundus Adel Naji	assistant professor
///	Permanent Angel		plants	Life Sciences	A.M. Khamael Ali Karim	assistant professor
///	Permanent Angel		Life Technologies	Life Sciences	A.M. Rana Hussein Nasser	assistant professor
///	Permanent Angel		Methods of science teaching	sciences	A.M. Mona Abdullah Ismail	assistant professor
///	Permanent Angel t		Life Sciences	Life Sciences	Dr. Muhammad Ali Hussein Abdullah	teacher
///	Permanent Angel		Methods of teaching physics	Methods of teaching science	Dr. Tawfiq Qaddouri Muhammad	teacher

///	Permanent Angel		analytical	chemistry	Muthanna .Dr Saeed Ali Karim	teacher
///	Permanent Angel	Head of Department	Philosophy in Physics	Physics	Nawwar .Dr Thamer Mohammed Hamad	teacher
///	Permanent Angel		Zoology. Tissue	Life Sciences	Dina .Dr -Abdul Razzaq Abdullah	teacher
///	Permanent Angel		algae	botany	Intisar .Dr Karim Abdulhassan	teacher
///	Permanent Angel		immunity	Medical sciences	Y. Mu'taz .Dr Yassin Hussein Alawi	teacher
///	Permanent Angel	Head of the Laboratories Committee at the College	Applied Physics	Physics	Yasser .Dr Ismail Hamid	teacher
///	Permanent Angel	Graduate Studies Course in the Department	Life Sciences	Life Sciences	Kazem .Dr Adel Hadi Kazem	teacher
///	Permanent Angel		Molecular biology	Life Sciences	M. Israa Tariq Akoul Bira	teacher
///	Permanent Angel	Head of Academic Affairs at the College	Microbiology	Life Sciences	M. Ammar Adnan Ta'ma Ali	teacher
///	Permanent Angel		Methods of teaching chemistry	Chemistry	Israa .A.M Naji Kazem	teacher
///	Permanent Angel		Solid state physics	Physics	M. Line Behnam Yaqo	teacher
///	Permanent Angel		Analytical Chemistry	Chemistry	M. Hind Abdel Wahab Abdel Latif	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	M. M. Yousry Khalaf Mohamed Khalaf	Assistant teacher

///	Permanent Angel		Methods of teaching science	Teaching methods	M.M. Farah Hassan Hadi Hassan	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	M.M. Duha Yahya Muhammad Ali	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	M.D. Suzan Muhammad Hussein	Assistant teacher
///	Permanent Angel		Methods of teaching science	the sciences	Hanan .M.M Hajem Murad Muhammad	Assistant teacher
///	Permanent Angel		polymer composites	Physics	M M Heba Jumaa Jaafar	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	Sakina .M.M Muhammad Ali Mustafa	Assistant teacher
///	Permanent Angel	Department head	Physiology of domestic birds	Animal production	M.M. Bahaa Nazim Ali Hussein	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	.Dr Muhammad Shakir Mahmoud Hussein	Assistant teacher
///	Permanent Angel		Methods of teaching science	Teaching methods	M.M. Zainab Qasim Muhammad	Assistant teacher
///	Permanent Angel		Chemistry	Chemistry	M.M. Saleh Mahdi Saleh	Assistant teacher
///	Permanent Angel		Animal production	Animal production	M.M. Taghreed Hadi	Assistant teacher
///	Permanent Angel		Animal production	Animal production	M.M. Fatima Mahmoud	Assistant teacher
///	Permanent Angel		Animal production	Animal production	M.M. Manar Abdel Qader	Assistant teacher
///	Permanent Angel		Animal physiology	Microbiology	M.M. Alaa Saham	Assistant teacher

Professional Development
Orienting new faculty members
also involving them Assigning them to attend lectures with experienced individuals, while .in the practical aspects and practical training
Professional development of faculty members
Priority will be given to applications for postgraduate studies from holders of Master's and existing scientific and administrative staff in Bachelor's degrees in order to develop the .the department

12. Admission standard
Central admission is based on the student's grades and preferences, taking into account .geographical location

13.Key sources of information about the program
1. .Lectures and textbooks, if available 2. .The Internet 3. .Field visits 4. .Scientific trips 5. .Libraries 6. .Meetings with some professional bodies 7. Training and development courses 8. .Specialized workshops 9. .Communicating with specialists and experts

13.development plan Program
Forming a committee within the department (Committee for Improving and (Developing the Academic Program

This committee works on studying all proposals received from course materials to instructors regarding the development and improvement of the make them more useful to the student teacher, and then submitting them to the college council for approval and submission to the deans' committee for consideration.

Program Skills Plan														
Learning outcomes required from the program														
Values				Skills				Knowledge				Essential or optional	Course Name	Course code	Year / Level
Q ٤	Part ٣	Part ٢	Part ١	٤B	B ٣	٢B	١B	A ٤	٣A	٢A	١A				
√	√	√					√			√	√	essential	Arabic	SCBB04AL117	/First the first
√			√	√	√			√	√		√	essential	computer	SCBB04CO116	
√	√			√	√				√	√	√	essential	Democracy and human rights	SCBB04HR115	
		√	√			√	√		√	√		essential	Same science growth	SCBB04BGP114	
	√		√	√			√	√		√	√	essential	General Biology	SCBB04GB111	
√		√	√		√	√	√	√	√	√		essential	General Chemistry	SCBB04GC112	

		√	√	√			√	√	√			essential	Logic (Mathematics)	SCBB04L113	
√	√				√	√			√		√	essential	language English	SCBB04EL124	/First the second
√		√		√	√		√	√		√		essential	Principles and foundations of basic education	SCBB04BEP123	
√	√	√					√			√	√	essential	Islamic Education	SCBB04IE125	
√			√	√	√			√	√		√	essential	General Physics	SCBB04GP121	
√	√			√	√				√	√	√	essential	human biology	SCBB04HB122	
		√	√			√	√		√	√		essential	Laboratory safety and security	SCBB04SSL126	
	√		√	√			√	√		√	√	essential	Arabic	SCBB04AL215	Seco /nd the third
√	√			√	√				√	√	√	essential	English language	SCBB04EL216	
		√	√			√	√		√	√		essent	computer	SCBB04CO217	

												ial			
	√		√	√			√	√		√	√	essent ial	Counseling and Mental Health	SCBB04PH214	
√		√	√		√	√	√	√	√	√		essent ial	Microbiology	SCBB04MB213	
		√	√	√			√	√	√			Basic	Cell science	SCBB04CL211	
√	√				√	√			√		√	Basic	Virology	SCBB04VI212	
√		√		√	√		√	√		√		Basic	The crimes of the Baath regime	SCBB04CL227	
√	√	√					√			√	√	essent ial	Educational Statistics	SCBB04ES225	Seco /nd
√			√	√	√			√	√		√	essent ial	Educational Psychology	SCBB04PC226	The fourt h
√	√			√	√				√	√	√	essent ial	Invertebrate science	SCBB04IV222	
√	√			√	√				√	√	√	essent ial	Histology and Embryology	SCBB04HE221	
		√	√			√	√		√	√		essent ial	Biochemistry	SCBB04BC223	

	√		√	√			√	√		√	√	essential	Plant physiology	SCBB04HP224	
√		√	√		√	√	√	√	√	√		essential	General teaching methods	SCBB04GMT326	Third/d The fifth
√	√			√	√				√	√	√	essential	Educational research methodology	SCBB04EC317	
		√	√			√	√		√	√		essential	Animal physiology	SCBB04AP321	
	√		√	√			√	√		√	√	essential	parasitology	SCBB04P312	
√		√	√		√	√	√	√	√	√		essential	Plant and animal production	SCBB04PP316	
		√	√	√			√	√	√			essential	Measurement and evaluation	SCBB04ME325	Third/d The sixth
√	√				√	√			√		√	essential	Curricula and textbooks	SCBB04C٤١٦	
√		√		√	√		√	√		√		essential	Immunology	SCBB04IS322	
√	√	√					√			√	√	essent	entomology	SCBB04GE323	

												ial		
√			√	√	√			√	√		√	essent ial	Methods of teaching science	SCBB04SM ٤١٣
√	√			√	√				√	√	√	essent ial	Plant classification	SCBB04T314
√	√			√	√				√	√	√	essent ial	Environment and Health	SCBB04PP
		√	√			√	√		√	√		essent ial	sustainable development	SCBB04PP
	√		√	√			√	√		√	√	essent ial	Arabic literature	SCBB04AL418
√		√	√		√	√	√	√	√	√		essent ial	Professional ethics	SCBB04AL
		√	√	√			√	√	√			essent ial	Educational Administration and Supervision	SCBB04EMS417
√	√				√	√			√		√	essent ial	Practical training (observation)	SCBB04GMT327
√		√		√	√		√	√		√		أساسي	الطحالب والفطريات	SCBB04AF315
√	√	√					√			√	√	أساسي	علم الوراثة	SCBB04GEN412

√			√	√	√			√	√		√	أساسي	مصول ولقاحات	SCBB04SV411	
√	√			√	√				√	√	√	essential	Endocrine physiology	SCBB04AL	
√	√	√	√	√	√	√	√	√	√	√	√	essential	The app	SCBB04TP421	Fourth/Eighth
√	√	√	√	√	√	√	√	√	√	√	√	essential	Graduation project	SCBB04TP422	

- Please check the boxes corresponding to the individual learning outcomes from the program that are subject to evaluation.

Course Description

Course Name
Developmental psychology
code Course
SCBB04BGP114
Year /Semester
First/First
description was prepared Date this
٠١-١٠-٢٠٢٥
forms of attendance Available
mandatory
(Number of study hours (total) / Number of units (total
45 hours ٣ lonliness
if there is more than one,) Name of the course coordinator .(please mention it
Name : : M. Israa Naji Kadhim Emailbasicsci17@uodiyala.edu.iq

objectives Course	
Cognitive objectives -A To enable students to gain knowledge and - terms in understanding of general psychology of its origin, concept, goals, branches and its .sciences relationship to other Enabling students to gain knowledge and - understanding of the contributions of Muslim .scholars in the field of psychological studies Enabling students to gain knowledge and - understanding of the schools of psychology .tations of eachand the intellectual orien To enable students to gain knowledge and - understanding of human behavior and the physiological and psychological foundations .that influence it Enabling students to acquire knowledge, - understanding, analysis, and interpretation of .motives behind human behavior the Enabling students to acquire knowledge, - understanding, analysis, and interpretation of .human emotion Enabling students to acquire knowledge and - understanding of learning in terms of its d theories, meaning, importance, conditions an with a focus on Pavlov's theory of classical	: Course objectives - Introducing students to general psychology in general terms of its its origin, concept, goals, branches and .relationship to other sciences - To equip students with the ability to recognize the contributions of Muslim scholars in the field of psychological .studies - Students' awareness of the most important Western schools that .focused on psychological studies - Introducing students to the concept of behavior and the physiological and psychological foundations that .influence human behavior - Students follow the processes that take place within a person (motives, emotions, sensation, perception, and .(attention - troducing students to learning as a In

conditioning and Kohler's theory of insight . learning Enabling students to acquire knowledge, - understanding, analysis, and interpretation of .sensation, perception, and attention s to acquire knowledge, Enabling student - understanding, and interpretation of .personality B- Course-specific : skills objectives Analyzing the concepts presented in the - . curriculum To acquire the skill of identifying the - theoretical and applied branches of . ypsycholog . Psychology schools are being evaluated Using learning theory applications in school - .	means of acquiring knowledge and .achieving cultural advancement - Students gain an understanding of personality by knowing its concept, characteristics, influencing factors, .and types - Students appreciate the role of hology in understanding human psyc behavior in order to control and guide .it

Teaching and learning strategies	
Giving or lecturing - Interrogation solving-and problem Discussion Students are required to visit the library and t . international information network Students are required to submit reports related to the .subject	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Class participatio n	Delivery - Interrogati on - Discussion	Introduction to General science psychology:	Enabling students to: Understanding - how general psychology came .into being Defining the - basic concepts of general .psychology Statement of the - objectives of general .psychology Distinguishing - the between theoretical and applied branches	3	the first

			of general .psychology		
Class participation	Delivery - For - discussion	The concept of - psychology as the .study of behavior The concept of - psychology as the study of activity	Enabling students to: Understanding - the concept of psychology as the of human study .behavior Understanding - psychology as the study of human .activity	3	the second
Research writing or Short group reports About the topic	- Discussion Interrogation Problem - solving	Schools of Psychology	Enabling students to: the Identifying - most important schools of psychology	3	the third
Daily tests	Delivery - - Discussion Interrogation	Goals of psychology	Enabling students to: Understanding - and knowing the goals of .psychology	3	Fourth
Research writing or Short group reports About the topic	- Discussion Interrogation Problem - solving	relationship The between general psychology and developmental psychology	Enabling students to: Understanding the knowing and relationship between general psychology and developmental psychology	3	Fifth
First month exam					Sixth
Class participation	Delivery - Interrogation - Discussion	The concept of growth, maturation, and development - Principles and s of growthlaw	Enabling students to: Understanding - the concept of its and growth . meanings Understanding - of the concept .maturity Understanding the concept of .evolution Understanding -	3	Seventh

			the principles and .laws of growth		
Class participatio n	Delivery - Interrogati on - Discussion	Mental and cognitive development (Piaget's (theory	Enabling students :to accurate understanding and comprehension of the concepts of Piaget's theory of cognitive . development	3	Eighth
Daily tests	Delivery - Interrogati on - Discussion	Moral growth ((Kohlberg's theory	Enabling students :to Students' - understanding of the concepts of moral development theory and how to grow morally	3	Ninth
Class participatio n	Delivery - Interrogati on Problem - solving	Social development ((Erikson's theory	Enabling students :to Understanding - Erikson's theory of social development and its practical application	3	tenth
Writing on reports he subjectt	Delivery - Interrogati on - Discussion	Emotional and affective growth	Enabling students :to Distinguishing - between the concept of emotional growth and the concept of affective growth, and how to differentiate .between them	3	eleventh
Daily tests	Delivery - Interrogati on - Discussion	Physical growth, some .childhood problems	Enabling students :to Understanding - the concept of physical growth and how to deal with each stage of .growth	3	The Twelve
Writing		Slow learning-	Enabling students	٣	

on reports the subject	Delivery - Interrogation Problem - solving	Digital addiction, some adolescent problems	:to Understanding - the concept of slow growth and how to deal with it, while being aware of the risks of digital addiction by identifying the problems of .adolescence		thirteenth
Writing on reports the subject	Delivery - Interrogation - Discussion	Identity investigation - .and its crisis Negative tendencies and abnormal .behaviors The dangers of drug - .addiction	Enabling students :to Understanding - the concept of identity and how .to achieve it Understanding - the meaning of negative tendencies and abnormal .behaviors Understanding - the risks of addiction, especially drug addiction	٢	fourteenth
month exam Second					fifteenth

Course evaluation

is distributed according to the tasks assigned to the student, such as ١٠٠ The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
٤٠	Monthly theory exam + exam + attendance daily reports +
٦٠	Final exam grade
١٠٠	Final grade

Learning and teaching resources

Books that deal with the subject general psychology	Required textbooks (methodology, (applicable

Books that deal with curricula and syllabi in education	
Mohammed Shamsi, Abdul Amir - ٢٠١١)] General Psychology ، -Zaghoul , Emad and Ali Al-Al - Introduction to (٢٠٠٤) Hindawi Psychology Abdul Khaliq, Ahmed Ahmed - Foundations of Psychology (١٩٩٧) books Other	(Main references (sources
Mohammed Shamsi, Abdul Amir - General Psychology ، (٢٠١١) Journals of educational and - psychological research of Psychological Studies Journals	Recommended supporting books and (...references (scientific journals, reports
Utilize educational websites related to course topics	Electronic references, websites

Course description template

Course Name
Biology General
Course code
SCBB04GB111
Semester/Year
the first

Date this description was prepared
٢٠٢٥/١٠/١
Available forms of attendance
mandatory
(Number of study hours (total) / Number of units (total
٤ : Practical, Number of Units ٢Theory, ٣
Name of the course coordinator (if there is more than one, please .(mention it
:tends A The letter the name Razzaq-Dr. Dina Abdeldena.abdalrazaq86@gmail.com :Amil - Al Fatima Mahmoud Ali millimeter basicsci62@uodiyala.edu.iq
objectives Course

Understanding the phenomena of learning and teaching, the factors influencing them, and interpreting the outcomes of the relationship between learning and events that occur within .teaching .And between the teacher and the learner Increasing the teacher's ability to see the educational changes * occurring remotely among students and to plan to meet their expectations in .bject to changeEducational events are su Understanding the science of classification and its historical * .....stages .....Recognizing the common characteristics of living organisms* ....Learning about theories of life*	Course objecti ves

Teaching and learning strategies	
lecture The - Discussion Interrogation Simulation Laboratory method	strategy

Course structure

Evaluation Method	Learning method	Required learning outcomes	Unit or topic name	Hours	W e e k

Continuous assessment participation)) Reports– Assignments– Interaction	– lecture discussion	The definition of biology	biology	٤	
Continuous assessment participation)) Reports– Assignments– Interaction	Discussion and questions	The origin of the Earth, theories of the origin of life, religion, and the origin of .life	Origin of L	٤	
Continuous assessment participation)– reports– assignments– (interaction	Discussion and questions	Its definition and historical stages and its fields	Taxonomy	٤	
Continuous assessment participation)– reports– assignments– (interaction	Lecture –Revised Discussion	method for official species living naming	Scientific noun	٤	
Continuous assessment (participation) Reports– Duties – Interaction	Lecture Modified – discussion	-Superkingdom: Archaea Kingdom of Archaea -Superkingdom: Bacteria Kingdom of Prokaryotes -Superkingdom: Eukaryotes Kingdom - Kingdom of Fungi -Protists Kingdom -Kingdom of Plants of Animals	Division of living organisms	٤	
Continuous assessment (participation) Reports – Duties – Interaction	discussion And the questions	Studying its characteristics and types	- Bacteria	٤	
			First montl exam	٤	
Continuous assessment (participation) Reports– Duties – Interaction	discussion And the questions	Types and descriptions of each type	cell	٤	
Continuous assessment	discussion And the	Organizing and multiplying it	genetic material	٤	

(participation) Reports– Duties – Interaction	questions	Its cloning and genes Mendel's laws and mutations			
Continuous assessment (participation) Reports– Duties – Interaction	discussion And the questions	evolution, Definition of mechanisms of evolution, and evidence	Evolution	٤	
Continuous assessment (participation) Reports – Duties – Interaction	discussion And the questions	-Animal hormones definition, types, and hormones -effects ،its definition -Plant life types, and hormonal regulation	hormones	٤	
Continuous assessment (participation) Reports – Duties Interaction	discussion And the questions	Its definition, history, immune system components, and types of .immunity	Immunolo	٤	
Continuous assessment (participation) Reports– Duties – Interaction	discussion And the questions	Its definition, historical overview, name, and hypotheses about its origin	viruses	٤	
Continuous assessment (participation) Duties –Reports Interaction –	discussion And the questions	It is a set of metabolic reactions (metabolism) .that occur in living cells biochemical energy conversion	Cellular structure and respiratior Cellular	٤	
Achievem ent test	monthly exam Second			٤	

Course evaluation

is distributed according to the tasks assigned to the ١٠٠The grade out of student, such as daily preparation, daily, oral, monthly, and written .exams, reports, etc

٢٥daily exam score = + Theory exam
١٥Practical exam grade =
٤٠Final theory exam grade =
٢٠Final practical exam grade =
١٠٠Final grade =

Learning and teaching resources

Biology, Dr. Hussein Abdel Moneim	Required textboo methodology, (applicable
	(references (sources Ma
Everything related to general biology online	Recommended supporting books and references (scientific (...journals, reports
	Electronic referenc websites

Course description template

: Course Name
(Logic (Mathematics
: code Course
SCBB04L113
: Year /Chapter
First/First
: description was prepared Date this
٢٠٢٥/١٠/١
: forms of attendance Available
mandatory
-: (Number of study hours (total) / Number of units (total
units ٢hours / ٣٠
if there is more than one, please) Name of the course coordinator state): Assistant Professor Dr. Ferial Kadhim Dawood
:Email A'i -Al Dr. Ferial Kadhim Dawood :Namebasicsci13@uodivala.edu.

: Ayyam -Dr. Zuhair Hussein Jawad Al basicsci6@uodiyala.edu.iq
: Ayyam -Dr. Nawwar Thamer Mohammed Al basicsci14@uodiyala.edu.

objectives Course

To enable the student to define the science of logic, what a statement is, and how two statements can be linked together using conjunctions -١	Course objectives
What is the algebra of phrases and what are dialogues? The student can solve examples on topic mentioned each	
The student can define a set, distinguish between sets, and understand set algebra and the theorems specific to set algebra -	
The student should be able to distinguish between sets and relationships, -٣ an product, and how to find congruence rowsunderstand ordered pairs, Cartesi	

Teaching and learning strategies

• Lecture method • Interrogation method • Simulation method • Discussion method	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Homework/Reports	• Lecture method • Interrogation method • Simulation method • Discussion method	phrases	Definition of logic, expression, and tool Linking phrases	٢	١
Homework / Reports	• method Lecture • Interrogation method • Simulation method • Discussion method	phrases	Solve questions about linking tools phrases	٢	٢
Homework / Reports	• Lecture method • Interrogation method • Simulation method	phrases	Logical equivalence and dialogues	٢	٣

	• Discussion method				
Homework / Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	phrases	Solve questions about logic equivalence and dialogues	٢	٤
Homework / Reports	• Lecture metho • Interrogat method • Simulation method • Discussion method	The group	Defining the group and identifying it Types of groups	٢	٥
Homework / Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	The group	Group algebra	٢	٦
Achievement test	First month exam			٢	٧
Homework/ Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	The group	algebra Theorems of set Union	٢	٨
Homework/ Reports	• Lecture metho • Interrogation method • Simulation method	The group	Theorems of set algebra intersection	٢	٩

	• Discussion method				
Homework / Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	The group	Theorems about the complement of the set And the group's leftovers	٢	١٠
Homework/ Reports	• method Lectur • Interrogation method • Simulation method • Discussion method	Relations	Definition of ordered pairs and Cartesian product	٢	١١
Homework/ Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	Relations	Properties of the Cartesian product	٢	١٢
Homework/ Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	Relations	Inverse Relationship and Relationship	٢	١٣
Homework / Reports	• Lecture metho • Interrogation method • Simulation method • Discussion method	Relations	Equivalence rows and finding equivalence rows	٢	١٤

Achievement test	Second month exam	٢	١٥

Course evaluation

The grade out of ١٠٠ is distributed according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.

note	٤٠	Degree of pursuit
The grade for effort is not limited to exams, but also includes daily tests, activities, participation, and absences.	٦٠	Grade for the final exam
	١٠٠	Final grade

Learning and teaching resources

	(methodology, if applicable) Required textbo
	(Main references (sources
١- Introduction to the Foundations of Mathematics, by Dr. Basil Atta Al Hashemi and others	Recommended supporting books and (...references (scientific journals, reports
٢- Mathematics, Introduction to Finite Mustafa Ahmed and others	
websites useful to some	Electronic references, websites

Course description template

1. Course Name
General Chemistry
2. Course code
١٣٠٢
3. Semester/Year
Chapter One / ٢٠٢٥-٢٠٢٦
4. this description was prepared Date
2026/2/1
5. Available forms of attendance
My presence
6. (Number of study hours (total) / Number of units (total
Two hours of theory and two hours of practical work per week
7. more than one, please Name of the course coordinator (if there is .(mention it
:email A'a -Al Dr. Muthanna Saeed Ali :Name

basicsci18@uodiyala.edu.iq

Note: The last line appears to be a) . A -Al M.M. Saleh Mahdi Saleh :Na (.separate, unrelated statement and is not translat salihmahdi@uodiyala.edu.iq

: Amiel -Al M.M. Hind Abdul Wahab hind.abdullatief@uodiyala.edu.iq

: Head of Chemistry Department : Shaymaa Mahdi Mustafa, Em Shaymaaab32@uodiyala.edu.iq

8. objectives Course

• .To know general chemistry • To know how to prepare different types of chemical substances • To know the name and shape of different types of chemical instruments	Course objectives

9. Teaching and learning strategies

To present the material to the students, several teaching :methods were used, including Lecture method - Interrogation method - Simulation method Discussion method Laboratory method	strategy

10.structure Course

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Written and oral tests Perform) (ance	- Laboratory The - lecture - Discussion - Simulation	- Names and shapes of laboratory equipment	- The concept of matter	٢	the first
Written	-	Finding the	- Material	٢	the

and oral tests Perform) (ance	Laborato ry - Simulatio n - Laborato ry - Discussio n	percentage of water in a fluid	properties		second
Written and oral tests Perform) (ance	- Laborato ry - Simulatio n - Discussio n The - lecture	- Finding the percentage of water in a fluid	- Types of materials	٢	the third
Written and oral tests Perform) (ance	- Laborato ry - Simulatio n - Discussio n The - lecture	- base -Acid titration	- The structure of –matter proton/neutr on/electron + examples	٢	Fourth
Oral tests Editorial Perform) (ance	- Laborato ry - Simulatio n - Discussio n The -	base -Acid titration	- chemical bonding	٢	Fifth

	lecture				
Oral and) written performa (nce tests	- Laboratory - Simulation - Discussion The - lecture	- First month exam	- Types of –bonds covalent, ionic , hydrogen, metallic + examples	٢	Sixth
Performance tests oral/writ) (ten	- Simulation - Discussion The - lecture - Laboratory	- Introduction to Automated Analysis	- Chemical –reactions examples	٢	Seventh
Oral,) written, and performance) tests	- Simulation - Discussion The - lecture - Laboratory	- Preparation of solid solution preparation	- Element –valence examples	٢	Eighth
Oral,) written, and performance) tests	Simulation discussion laboratory Lecture	- Preparation of solid solution preparation	- Oxidation –number examples	٢	Ninth
Oral,) written,	Simulation	- Preparation of liquid	- Chemical –formula	٢	tenth

and performance) tests	laboratory discussion Lecture	solutions	examples		
Perform) ance tests: oral and (written	laboratory discussion Simulation Lecture	- Preparation of liquid solutions	- Chemical –equation examples	2	eleve
Perform) ance tests: written (and oral	Simulation discussion laboratory Lecture	- Preparation of solid solutions of pharmaceutical preparations	- Acids, bases, and salts	2	twelv
Tests (oral) Performance (Editorial	Simulation discussion laboratory Lecture	- Preparation of solid solution solutions from	- Types of –solutions examples	2	thirtee
Tests Perform) (ance Editorial (oral)	Simulation laboratory discussion Lecture	- Preparation of sodium hydroxide	Second month exam	2	fourtee
Tests Perform) (ance oral (Editorial		Second month exam	Comprehensive exam	2	fifteent

10.

11.Course evaluation

the tasks assigned to the is distributed according to ١٠٠The grade out of student, such as daily preparation, daily, oral, monthly, and written exams, .reports, etc

12.Learning and teaching resources

Fundamentals of Modern Gener Chemistry	Required textbooks (methodology, (applicable

Fundamentals of analytical chemistry	(sources) Main references
The Scientific Academy Journal issu by Diyala University	Recommended supporting books and references (scientific journals, (...reports
Wikipedia	Electronic references, websites

(template description Schedule)

Course Name
Islamic Education
Course code
ISLFI2
Year / Semester
First / Second the chapter
Date this description was prepared
1 m 2026 / 2 /
Available forms of attendance
Mandatory attendance
(total) Number of units / (total) Number of study hours
hours (30)
if there is more than one, please mention it) Name of the course coordinator .(
: Mohammed Abdullah, Email Marwa .Drbasica87te@uodiyala.edu.iq

objectives Course	
: to The student should be able - the definition of the science of the fundamentals of Learn . religion, the names of this science and its reasons - pillars of faith according to the majority of the Learn Muslims, theology, the existence of God and His attributes, and the proofs of the existence of God . Almighty - the argument from contingency, the about Learn he argument from design and invention, the illusion of t senses, atheism, divine attributes, and the psychological . (existence) attribute - The roll of (.foot, stay, etc) the negative qualities Learn of attributes ‹ (actualization, oneness-accidents, self ight, power, will, knowledge, life, hearing, s) meanings . (speech - the impact of the doctrine of monotheism on about Learn ‹life, what is impossible with regard to God Almighty . what is permissible with regard to God Almighty and	Course objectives
Teaching and learning strategies	
Teaching and learning methods 1- . The method of presentation accompanied by questioning 2- . and explanation of the course material Explanation 3- . Lecture method 4- . learning method-Self	strategy
Assessment methods -1 questions for the study Daily tests with multiple and varied . materials -2 . on the course material Submitting reports -3 A written test to measure students' ability to understand the . material 5- Assigning specific grades for daily participation and . activities extracurricular	

Course structure

First semester

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Participating in the preparation	Interrogation	Introduction to science Fundamentals of Religion The names of this science and their origins	- the Learn definition of The science fundamentals of religion The names of this science and their origins	2	the first
Daily written exam	Interrogation	- The pillars of faith according to the majority of Muslims	- Learn the pillars of faith according to the majority of Muslims	2	the second
Participating in the preparation	Interrogation	- Theology	- Learn theology	2	the third
Participating in the prepara	Interrogation	- God's existence and attributes - Evidence for the existence of	- Learn about the existence of God and His attributes,	2	Fourth

tion		. God Almighty	and the evidence for the existence of God . Almighty		
Participating in the preparation	Interrogation	- Evidence of . occurrence - A guide to care and innovation .	Learn the Evidence of Occurrence, the Evidence of Care . and Invention	2	Fifth
			- First month written) exam (test	2	Sixth
Participating in the preparation	Interrogation	- deceiving the senses - . Atheism	- Learn to deceive your ‹senses - . To atheism	2	Seventh
		- Divine . attributes	- Learn the divine . attributes	2	Eighth
Daily written exam	Interrogation	- Psychological) attribute (existence	- Learn the psychological) attribute .(existence	2	Ninth
Participating in the preparation	Interrogation	- Negative) qualities ancientity, permanence, opposing -accidents, self reliance, .(singularity	- Learning negative) qualities foot, survival, opposing -accidents, self reliance, .(solitude	2	tenth

Participating in the preparation	Interrogation	- Attributes of) meanings power, will, knowledge, life, hearing, sight, .(speech	Learn the attributes of) meanings power, will, knowledge, life, hearing, sight, .(speech	2	eleventh
Participating in the preparation	Interrogation	- The impact of the doctrine of monotheism on . life	- Learn about the impact of the doctrine of monotheism . on life	2	twelfth
Participating in the preparation	Interrogation	- What is impossible for him	- Learn what is impossible for him	2	thirteenth
Participating in the preparation	Interrogation	- What is permissible with regard to God Almighty	- Learn what is permissible in relation to God Almighty	2	fourteenth
			- Second month written) exam (test		fifteenth

Course evaluation

: distributed as follows : Semester effort grade : First

1- .exams (written) marks for monthly (25)

2- . marks for daily exams (5)

3- and classroom and · Reports : for practical applications marks (10)

. extracurricular participation

. (60) : Grade for the final semester exam : Second

Learning and teaching resources

Nothing	methodology, if) Required textbooks

	(applicable
The Fundamentals of the " The book Rushdi .by Dr "Islamic Religion Qahtan Abdul .Dr Alian and . Rahman	(sources) Main references
. The Holy Quran - Books of interpretation and the - . noble Prophetic Hadith Journal of the College of Islamic - . University of Baghdad / Sciences	Recommended supporting books and ،scientific journals, reports) references (.etc
www.nourallah.com/directoryl,hru www.al-islam.com/ www.montalq.com	. Electronic references, websites

description template Course

Course Name
Laboratory safety and security
code Course
Year /Semester
٢٠٢٤-٢٠٢٥ Second semester

description was prepared Date this
٢٠٢٦/٤/٣
forms of attendance Available
mandatory
(units (total Number of study hours (total) / Number of
hours ٣٠
if there is more than one, please) Name of the course coordinator .(mention it
Rana Hussein Nasser .Ms : Nameranaalqaysi@uodiyala.edu.iq
objectives Course

• Enabling students to learn about – General safety precautions in chemical laboratories – Precautions to be followed for safety from commonly used chemicals – Laboratory safety signs – Safety precautions when storing and preserving chemicals – hemical laboratoriesRIsks and injuries in c – Safety precautions for experiments that require heating – first aid – Biological hazards – Methods of controlling biological risks – hazardous waste – Evacuation plan procedures	Course objectives

Teaching and learning strategies	
Cooperative Learning –Discussion – Brainstorming – Questioning – Lecture .	

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Participating in the preparation	Lecture	General safety precautions in Chemical laboratories	– Laboratory safety and security are known – Lists the basic specifications	٢	Week the first

			For chemical laboratories - It explains what the basic .equipment is For the safety that must be provided in the laboratory		
Participating in the preparation	Lecture	Precautions to be followed for safety from commonly used chemicals	- precautions that It explains th .must be followed For safety from commonly used chemicals - Lists the paragraphs of laboratory safety papers - Lists safety guidelines and instructions The public inside the laborator	٢	Week the second
Participating in Preparation Interaction brainstormi	discussio brainsto ing	Laboratory safety signs	Draws laboratory safety signs - With its multiple divisions (blue, re (and green	٢	Week the third
Written exam daily	Interrog on	Safety precautions when preserving storing and chemicals	Explains how to store flammable - chemicals For ignition - Explains the storage of toxic materials It explains how to store explosive .chemicals It explains how to store oxidizing .agents	٢	Week Fourth
Participating in Preparatio n Reports	-Micro teaching	Safety precautions when storin and preserving chemicals	- It shows how to store edible .materials - Knowing incompatible materia It identifies some of the most important chemical compounds .(acids, bases, salts) ،Halogens, alcohols , oxygen (Silver, esters	٢	Week Fifth

Participating in Preparation	discussi	- Risks and injuries in chemical laboratories	- It shows the types of risks in Chemical laboratories It explains the risk factors in Chemical laboratories explains the various harmful It .effects of chemicals	٢	Week Sixth
	First month exam			٢	Week Seventh
Participating in Preparation	discussi	precautions Special safe Experiments that require heating	- It explains general safety guidelines .for specific situations Experiments that require heating - He lists the important things that .must be taken into consideration When heating - It distinguishes between heating flammable -flammable and non .liquids - It lists methods for heating organic liquids	٢	Week Eighth
Participating in Preparation	collabor ve learn	first aid	- It explains first aid methods for fire .cases (Skin, Eye) - It explains first aid recommendatio .in case of poisoning - List the contents of a first aid kit	٢	Week Ninth
Participatin in Preparation Report preparation	Lecture and discussi	Biological hazards	- It shows what biological risks are - He explains infectious diseases - It lists common diseases caused by biological hazards -	٢	Week tenth
Participating in Preparation	Interrog on and discussi	Biological hazards	- Lists common diseases caused by biological diseases - It explains methods for controlling .biological diseases	٢	Week atheistic ten
Daily written	discussi	Methods of control Biological hazards	- Lists the requirements and equipme of biological laboratories	٢	Week second th

exam			- It explains how to train and qualify employees in laboratories		ten
Participating in Preparation	discussi solution Problem	. hazardous waste	- is defined Hazardous biological wa as - It explains the treatment and draina .methods - It explains the decontamination .process in laboratories Biological	٢	Week the third ten
Participating in Preparation	Lecture discussi	Evacuation plan procedu	- He understands (evacuation plan evacuation – evacuation order – (execution - Lists tasks during an emergency - He understands the instructions and duties of the elements of the .evacuation plan Dean of the College, Safety) Coordinator, Heads of ‹Departments Administrators, maintenance (team, safety supervisors	٢	Week Fourth ten
	Second month exam			٢	Week Fifth ten

2. Course evaluation

Final grade	the audience	acti vity	acti vity	daily	daily	monthl y rate	Third mont h	Seco nd mon th	First mont h	Stude nt's name	T
١٠٠	٢	٢	٢	٢	٢	٣٠		٣٠	٣٠	/	١

3. Learning and teaching resources

Adam, Korkis and Yousef, Zora: Laboratory Hazards and Safety and Scientific Ministry of Higher Education Research, Iraq	(Required textbooks (methodology, if applicable
- Hassan, -Mu'taz Ibrahim and Al-Al Muhammad: Safety in Laboratories chemical plants	(Main references (sources

- Shaalan, Saleh, and others: A guide to safety i laboratories	
Some research papers, theses, and .dissertations are recommended And the reports that The subject matter pertains to	Recommended supporting books and (...scientific journals, reports) references
-University of Babylon website through its e learning lectures service http://repository.uobabylon.edu.iq/elearning/elearning2012.aspx The website of the College of Basic Education, University of Diyalais http://www.basicedu.uodiyala.edu.iqHYPERLINK "http://www.basicedu.uodiyala.edu.iq/"/ Iraqi Academic Journals Website http://www.iasj.net/iasj	Electronic references, websites

Course description template

General Physics : Course Name
: code CourseSCBB05GP122
٢٠٢٦-٢٠٢٥Second : Year /Semester

٢٠٢٥/١٠/١ : description was prepared Date this

person-formats : In Available attendance

٦٠ : Total study hours / Total unit hours

if there is more than one, please state):) Name of the course coordinator
Assistant Professor Dr. Ferial Kadhim Dawood

:Email A'i -Dawood Al Dr. Ferial Kadhim :Namebasicsci13@uodiyala.edu.iq
: Ami -Assistant Professor Dr. Zuhair Hussein Jawad Al
basicsci6@uodiyala.edu.iq

objectives Course

• Introduction to physics and fundamental and derived quantities • Distinguishing between scalar and vector quantities; understanding the arithmetic .operations of vector addition and subtraction, and cross and scalar multiplication • .should be able to analyze vectors and solve examples The student • Understanding the dynamics of motion in a straight line, Newton's laws of motion, .friction, and the coefficient of friction • and studying motion, gravity, waves, and sound Understanding • the – the factors affecting the speed of sound ld knowThe student sh properties of sound	objectives Cours

Teaching and learning strategies

• Lecture method • Interrogation method • Simulation method • Discussion method	strategy

Course structure

Evaluation Method	Learning method	or topic name Unit	Required learning outcomes	Hours	Week

Written and oral tests performanc	• Lecture • laboratory • discussion • Simulatio	Base -Measuremen - and Derived Units International Syste of Units	The student will learn about physics and unit .of measurement The International System of Units	6	١
Written and oral tests performanc	• Lecture • laboratory • discussion • Simulatio	Numerical and vect quantities	The student should know about scalar and .vector quantities	٦	٢
Written and oral performance tests	• Lectur e • laborato • discussic • Simula tion	their – Vectors concept And its graphical representation	To understand vectors and the mathematical operations for vectors	٦	٣
Written and oral performance tests	• Lecture • laboratory • discussion • Simulati on	Adding and subtracting vectors Vector analysis, vector analysis, numerical multiplication, cross product	The student should able to find subtraction, ،Additi multiplication Point and cross produ	٦	٤
Written and oral performance tests	• Lecture • laboratory • discussion • Simulati on	Levers and their types	the I will explain .concept of a lever And its types	٦	٥
Written and oral performance tests	• Lectur e • laborato • discussic • Simula	Motion of objects in Earth's the gravitational field	The student should understand in motion Dynamics o the Earth's gravitational field	٦	٦

	tion				
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Law of universal gravitation and ma	The student can solve examples of the law of universal gravitation .and mass	٦	٧
			First month exam	٦	٨
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	free fall Projectiles from an inclined surface	The student should .understand free fall The student should solve examples of free .fall	٦	٩
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Combining simple harmonic waves with transverse wave motion	To distinguish betwee types of wave motion standing, transverse,) (and longitudinal wav	٦	١٠
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	The concept of – sound Conditions for sound transmission in solids, liquids, and gases	To explain the – concept of sound the conditions for sound transmission in solids, liquids, and gases	٦	١١
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Interference of sound waves and beats – resonance standing waves –	To explain interferenc – beats – and resonan standing waves	٦	١١
Written and oral	• Lecture • laboratory	Sound propagation	To explain the phenomena of sound	٦	١٢

performance tests	• discussion • Simulation	and refraction	propagation and refraction		
Written and oral performance tests	• Lecture • laborato • discussic • Simula tion	Factors affecting the speed of Sound – sound properties	The student should the factors know affecting the speed of the properties – soun of sound	٦	١
			Second month exam	٦	١

Course evaluation

is distributed according to the tasks assigned to the student, such as daily ١٠٠ out of The grade .preparation, daily, oral, monthly, and written exams, reports, etc

Learning and teaching resources

• Physics for the first year of geology • Physics for Earth Science students • Young, H. D., & Freedman, R. A. (2020). *University physics with modern physics* (15th ed.). Pearson • Klauber , R. D. (2020). *Classical physics: A two-semes coursebook* . Springer Nature • Ling, S. J., Sanny , J., & Moebs , W. (2016). *Univer physics volume 1*. OpenStax , Rice University .	Required textbooks (methodology, if (applicable
Library The Internet	(Main references (sources
Books General Physics Scientific articles Scientific reports	Recommended supporting books and (...references (scientific journals, reports
Arab Physics Forum Physics Education Website	Electronic references, websites

Course description template

: Course Name
Arabic
: code Course
SCBB04AL117
: Year /Chapter
Second/First
: description was prepared Date this
٢٠٢٥/١٠/١
: forms of attendance Available
mandatory
٦٠ : Total study hours / Total unit hours
units ٢hours / ٣٠
if there is more than one,) Name of the course coordinator :(please state
Note: The last line appears to be a) .A Al M.M. Marwa Mohammed :Name (.typo and should be omitted
objectives Course

Cognitive objectives - A	Course objectives
Knowledge and Understanding - A	The student should be able to at the end of the academic year
To enable students to acquire knowledge and - ١A the , the predicate , the subject) understanding in grammar Kana and its sisters the subject of , agent's substitute the , agent .(the predicate of Inna and its sisters ,	
owledge and Enabling students to acquire kn - ٢A Literary life in the early Islamic) understanding in literature The Farewell Sermon of the ,(features and characteristics) era Noble Messenger Muhammad(The , (peace be upon him His life, critical) : Burda Poem by Ka'b ibn Zuhair Literary life in the ,(verses 10 commentary, memorization of) Jarir : First example , Contradictory poetry , Umayyad era) Farazdaq-Al : Second example ,(verses 10 memorization of (verses 10 memorization of	
Enabling students to acquire knowledge and - a3 alphabetic and) understanding in writing dictation solar , alphabetical order of Arabic letters , phonetic order (' writing the closed and open ta , and lunar letters	
eSpecific to the cours Skill Objectives - B.	
. Skills in literature - ١B	
. related to grammar topics Skills - ٢B	
. related to spelling writing Skills - ٣B based objectives-Affective and value - C	
To understand the importance of studying the subject and - ١A	

. applications its life the of He understands the importance of the impact –٢A . doctrine of monotheism on life	

Teaching and learning strategies	
• Lecture method • Interrogation method • Simulation method • Discussion method	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Written and oral tests performance	• Lecture • laboratory • discussion • Simulation	Grammar	1. Learn Arabic grammar rules in) syntax , subject , predicate , agent agent's , substitute subject of kana and its , sisters predicate of inna and its .(sisters	٢	١
Written	• Lecture • laboratory	Grammar	•2. Learn (Life) Literature	٢	

and oral tests performance	• discussion • Simulation		era in Literature Islam Issued((Characteristics and the) characteristics), sermon argument For the Goodbye The Messenger generous Muhammad  , a The Burda poem Zuhair son heel: (His life Comment We) Critical memorize 10 verses), life The in Literary Umayyad era poetry Contradictions, a First model: Jarir (memorize 10 verses) Second : example -Al) Farazdaq memorizin		٢

			(verses 10 g		
Written and oral performance tests	• Lecture • laborato • discussio • Simulation	Grammar	3- Learn Dictation writing in Dictation: •The alphabetical, phonetic, and abjad order of . Arabic letters	٢	٣
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Grammar	•Solar and lunar letters Writing the closed and 'open ta	٢	٤
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Literature	Arabic to learn grammar rules in) Grammar , subject agent , predicate agent's , , substitute subject of Kana , and its sisters predicate of Inna .(and its sisters	٢	٥
Written and oral performance tests	• Lecture • laborato • discussio • Simula	Literature	•Solar and lunar letters Writing the closed 'ta and open	٢	٦

	tion				
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Literature	Arabic to learn grammar rules in) Grammar , subject , agent , predicate agent's substitute subject of Kana , , and its sisters predicate of Inna .(and its sisters	٢	٧
First month exam				٢	٨
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Literature	Arabic to learn grammar rules in) Grammar , subject , agent , predicate agent's substitute subject of Kana , , and its sisters predicate of Inna .(and its sisters	٢	٩
Written and oral performance tests	• Lecture • laboratory • discussion • Simulation	Dictation	to learn) Literature (Life in Literature Issued era Islam(Characteristics and the) (characteristics), sermon	٢	١٠

			argument For Goodbye the Messenger The generous Muhammad ﷺ , a poem The Burda son heel Zuhair: (His Comment .life We) Critical memorize 10 verses), life in Literary The era Umayyad poetry Contradiction s, a model First: Jarir(memorize 10 verses) Second : example -Al) Farazdaq memorizin (verses 10 g		
Writte n and oral	• Lecture • laboratory	Dictation	to learn Dictation	٢	١١

perfor mance tests	• discussion • Simulati on		writing in Dictation: •The alphabetical, phonetic, and abjad order of . Arabic letters		
Writte n and oral perfor mance tests	• Lecture • laboratory • discussion • Simulati on	Dictation	•Solar and lunar letters Writing the closed and 'open ta	٢	١٢
Writte n and oral perfor mance tests	• Lecture • laboratory • discussion • Simulati on	Dictation	•Solar and lunar letters Writing the closed and open 'ta	٢	١٣
Writte n and oral perfor mance tests	• Lectur e • laborato • discussio • Simula tion	Literature	Arabic to learn grammar rules in) Grammar , subject agent , predicate agent's , , substitute subject of Kana , and its sisters predicate of Inna .(and its sisters	٢	١٤
Second month exam				٢	١٥
Course evaluation					
is distributed according to the tasks assigned to the student, such as ١٠٠of The grade out .daily preparation, daily, oral, monthly, and written exams, reports, etc					

Degree	Grade distribution
٤٠	Monthly theory exam + daily exam + attendance reports +
٦٠	grade Final exam
١٠٠	Final grade

Learning and teaching resources	
nothing	(Required textbooks (methodology, if applicab
•Nada wa –Explanation of Qatr al Sada, by Ibn Hisham–Ball al. • Comprehensive Grammar, . Abbas Hassan	(Main references (sources
•The writings of the ancient grammarians. •Ghalayini, compiler of –al . Arabic lessons • Journal of the Iraqi Scientific . Academy	Recommended supporting books and (...references (scientific journals, reports
•–The website of the Lisan al Arab blog. •. The Comprehensive Library • The Scientific Council website . • . Faseeh Network–Al	Electronic references, websites

Course description template

Course Name
of Education Principles
code Course
SCBB04BEP123
Year /Semester
Second/First
description was prepared Date this

2025-10-01

forms of attendance Available

mandatory

(Number of study hours (total) / Number of units (total

units ٣ / hours ٤٥

more than one, please if there is) Name of the course coordinator .(mention it

: Email Name: Ms. Mona Abdullah Ismailbasicsci9@uodiyala.edu.iq

objectives Course

: a) Cognitive objectives of the course

- . in general basic education Introducing students to
- identify the key inputs that are important for basic To equip students with the ability .education
- .in basic education systems in some Arab countries Students Definition
- .e foreign countriesto basic education systems in som Introducing students
- .The students learned about the educational problems facing basic education in Iraq
- Students' awareness and identification of the educational problems facing bas .education
- on the educational Informing students about the impact of educational proble .process
- . Students' understanding of the causes of educational problems

: based objectives-Skills (b

- .Analyzing the concepts presented in the course
- and ‹the fundamentals of basic education, its inputs To acquire the skill of recogniz .identifying its problems
- . education systems in Arab and foreign countries Evaluating basic
- . Applying the acquired concepts in the fields of basic education

Teaching and learning strategies

- .Lecture and presentation
- .Interrogation
- Simulation
- .Discussion

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Performance tests Oral and)	Delivery - Interrogat Discussion	- Education (Concept (and Importance	Enabling students to understand the of education concept	٣	the first

(written	Simulation		and Education understanding its importance		
Performance tests and Oral) (written	Delivery - Interrogat Discussion Simulation	- The relationship between education and upbringing - Similarities, differences, and the relationship between education, learning, and teaching	To enable students to understand the relationship between education and upbringing, and the most important similarities and between differences education, learning, .and teaching	٣	the secon
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Education in the Islamic -Arab Heritage	To enable students to learn about educational systems Islamic -in the Arab heritage	٣	the third
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Principles of Education	students to Enabling learn about the most important principles .of education	٣	Fourth
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- The teacher's roles in light of modern educational trends - Teaching profession licenses (concept and (standards	Enabling students to learn about the most important roles of the teacher according to modern teaching methods, as well as to understand the concept of a teaching .profession license	٣	Fifth
Performance tests (Editorial)	First month exam				Sixth
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- requirements Basic for a teacher's success in his profession	Enabling students to identify the most important basic requirements for a teacher to succeed in their profession	٣	Seventh
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Characteristics of a successful teacher	Enabling students to identify the most important characteristics that contribute to a teacher's success in .their profession	٣	Eighth
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- The class mentor teacher (concept and (roles	Enabling students to understand the concept of a classroom advisor and the most important roles they .play	٣	Ninth

Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Basic education in Iraq - concept The	Enabling students to recognize and define the concept of basic education in Iraq	٣	tenth
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Stages	Enabling students to identify and define the stages of basic education in Iraq	٣	eleventh
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	- Examples of basic education in some countries of the (world (Qatar	Enabling students to learn about a basic education model from some countries around the world Qatar as an) .(example	٣	twelfth
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	Examples of basic education in some countries of the world (Japan)	Enabling students to learn about a basic education model from some countries around the world Japan as an) .(example	٣	thirteen th
Performance tests Oral and) (written	Delivery - Interrogat Discussion Simulation	Examples of basic education in some the world countries of (Britain)	Enabling students to learn about a basic education model from some countries around the world Britain as an) .(example	٣	fourtee nth
Performance tests (Editorial)	Second month exam				fifteenth

Course evaluation

assigned to the student, such as is distributed according to the tasks ١٠٠ The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
٤٠	Monthly theory exam + daily exam + attendance reports +
٦٠	Final exam grade
١٠٠	Final grade

teaching resources Learning and

- Books that deal with basic educati material - Books that deal with curricula and syllabi in education	Required textbooks (methodology, (applicable
In Comparative Education and Professor Dr. ،International Education ،٢٠٠٤Mousawi, -Abdullah Hassan Al Modern Book World	(Main references (sources
- Journals specializing in .education - .Journals of educational studies	Recommended supporting books and (...references (scientific journals, reports
educational websites related to Utilize course topics	Electronic references, websites

Course Description

Biology Human

Course Name
Human biology
code Course
SCBB04HB122
Year /Semester
Second/First
description was prepared Date this
٢٠٢٦/٢/١
forms of attendance Available
mandatory
(Number of study hours (total) / Number of units (total
60 units ٣
if there is more than one,) Name of the course coordinator .(please mention it

: Email Dr. Ammar Adnan Ta'ma :Name basicsci20@uodiyala.edu.iq
: Email ،M.M. Fatima Mahmoud Ali basicsci62@uodiyala.edu.iq

objectives Course

:a) Cognitive objectives

- .To become familiar with human biology
- man in nature To show the place of
- .To know the systems of the human body
- .To show the structures of the organs that make up the human body
- .To draw the structures of the devices
- .To explain how these devices work
- .To learn about the types of systems that make up the human body
- .To mention the benefits of the systems that make up the human body

:b) The specific skills objectives of the course

- .To compare the different devices and their operation
- .To compare the functions of different devices
- .each device and their functions To explain in detail the parts of
- .To mention the interrelationship between the work of these devices with each other
- .To know the diseases that affect the different systems of the human body

: objectives based-Affective and value -C

- . biology human analyze topics related to To be able to think and
- . in the laboratory performance to think and analyze topics related to practical To be able
- affecting the systems of the human diseases related to topics to think and analyze To be abl body
- affecting diseases to think and analyze topics related to finding Treatments related to To be a the human body different systems of

Teaching and learning strategies

• Lecture • .Open discussion • Simulation • laboratory • learning-self	strategy

structure Course					
Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	The concept of human biology	To become familiar wit human biology	٦	the first
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	Human body systems an their parts Its location and functio	The student should kno the systems of the hum .body	٦	the seco
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	skeletal system The axial device peripheral device ribs	The student should be able to know skeletal system	٦	the thir
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	Parts of the digestive system of the accessory glands system	The student should be able to define Digestive system	٦	Fourth
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	Types of muscles in the human body Smooth muscles Skeletal muscles Cardiac muscle-	The student should be able to know musculature	٦	Fifth
Performance tes (Oral/Written)		First month exam		٦	Sixth
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	circulatory system components - veins - arteries - and its Blood components - Blood types	The student should explain the circulatory .system Its components and functions	٦	Seventh
Performance tes (Oral/Written)	- Simulat - laborato - discussi - Lecture	Parts of the respiratory system - nose - lungs - larynx - bronchioles - Internal and external respiration	The student should identify the most important components The respiratory system and its parts	٦	Eighth
Performance tes (Oral/Written)	- Simulat - laborato	- brain - spinal cord	The student should be able to identify	٦	Ninth

	- discussi - Lecture	- cranial nerves - spinal nerves	Divisions of the nervou system		
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	- Kidney structu - Nephron - ureter - bladder - urethra	The student should be able to list Parts of the urinary system	٦	tenth
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	- arteriosclerosis - cancer - Alcohol addicti - Smoking	The student should become familiar with Organic diseases that affect the organs .Different	٦	eleven
Performance te (Oral/Written)		Second month exam		٦	twelve
Performance tests	- Simulat - laborat - discussi - Lecture	review		٦	Thirtee
Oral/Written) (	- Simulat - laborat - discussi - Lecture	review		٦	Fourtee h
Performance tests	- Simulat - laborat - discussi Lectur	review		٦	fifteenth

Course evaluation

is distributed according to the tasks assigned to the student, such as ١٠٠The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
marks for ٢٥) ٤٠ ١٥theory and marks for (practical	Monthly theory exam + daily exam + attendance reports +
marks for ٤٠) ٦٠ ٢٠theory and marks for (practical work	Final exam grade
١٠٠	Final grade

Learning and teaching resources

- Books that deal with the subject of hum	(textbooks (methodology, if applicable Required

.biology - Books on Anatomy and Physiology For hum .	
- sources - Websites	(Main references (sources
Scientific journals specializing in human anato and other published research	Recommended supporting books and (...reports .references (scientific journals
.....	Electronic references, websites

Course description template

/Course Name
Democracy and human rights
/ Code
SCBB04HR115
/ Year / Chapter
Second/First
/description was prepared Date this
1 ٢٠٢٥/١٠
/ forms of attendance Available
My presence

/ Total number of study hours / Total number of units
30 units ٢Hour /
if there is more than one,) Name of the course coordinator .(please mention it
: Email A'i - Tawfiq Al Dr. Saif :Namesaiftawfeeq@uodiyala.edu.iq

objectives Course	
Defining the nature of democracy and huma rights Mechanisms for implementing democracy and rights in Arab countries human Establishing the foundations and standards of democracy and human rights	Course objectives

Teaching and learning strategies	
Creating a general atmosphere for understanding the goals human characteristics, and principles of democracy and rights, as well as preparing teachers who believe in applyin .the mechanisms of democracy and human rights	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Daily posts and quizzes	Lecture discussion	First topic: Human rights in ancient times	Defining democracy and human rights in ancient times	٢	the first
Daily posts and quizzes	Lecture discussion	Section Two: Human Rights and Ancient Roman Philosophy	Defining democracy and human rights in ancient times	٢	the second
Daily posts and quizzes	Lecture discussion	Origin, concept, "and term "deem Third topic: Human rights in ancient Arab thought	Defining democracy and human rights in ancient Arab thought	٢	the third
Daily posts	Lecture	:Section Four	Introducing	٢	Fourth

and quizzes	discussion	Human rights and Islamic civilization Types of Democracy	democracy and human rights in Islamic civilization		
Daily posts and quizzes	Lecture discussion	:Fifth topic Human rights and the Manga Carta (Great (Covenant	Defining Democracy and Human Rights: Ancient Documents	٢	Fifth
Daily posts quizzes and	Lecture discussion	Section Six: The French and American Revolutions	An introduction to democracy and human rights in Europe and America	٢	Sixth
Daily posts and quizzes	Lecture discussion	The content and environment of democracy First topic: What are ?human rights	Defining the meaning of human rights	٢	Seventh
Daily posts and quizzes	Lecture discussion	Section Two: The Universality of Human Rights	Responsibilities and characteristics specific to democracy and rights human	٢	Eighth
Daily posts quizzes and	Lecture discussion	Third topic: Human dignity, democracy, and human rights in Arab countries	Types of democracy and human rights	٢	Ninth
Daily posts and quizzes	Lecture discussion	Section Four: What are the responsibilities and obligations ?of a person	Types of rights and democracy	٢	tenth
Achievement test	First month exam			٢	eleventh

Daily posts and quizzes	Lecture discussion	Five: Section Characteristics of Human Rights Section Six: Categories of Rights, Evaluation, Foundations, and Requirements of Democracy First topic: The -right to self determination for all peoples Section Two: Obligations of States Resulting from the Covenant	Methods and approaches	٢	twelfth
Daily posts and quizzes	Lecture discussion	Third topic: Women's and family rights Characteristics of democratic syste Section Four: Children's Rights - Fifth topic: The right to life Section Six: Prohibition of and Torture Cruel Treatment	Systems and methods	٢	thirteenth
Daily posts and quizzes	Lecture discussion	Advantages, components, and pillars of democracy - Section	Systems and methods	٢	fourteenth

		Seven: Humane Conditions of Detention - Section Eight: Freedom of Movement, Travel and Return - Section Nine: The Right to Respect for Private Life Systems of government and the historical development of democracy			
Achievement test	Second month exam			٢	fifteenth

Course evaluation
according to the tasks assigned to the student, such as is distributed ١٠٠ The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
٤٠	Monthly theory exam + daily exam + attendance reports +
٦٠	Final exam grade
١٠٠	grade Final

Learning and teaching resources	
Nothing	Required textbooks (methodology, if (applicable
-Prof. Dr. Abbas Fadel Al -١ Dulaimi, Human Rights: Thought A Study in Positivist -and Practice Central Press ،and Islamic Thought .٢٠١٣University of Diyala, - Dr. Abdul Razzaq Rahim Salal -٢ Muhi , Human Rights in -Al Manahij -Heavenly Religions, Dar Al for Publishing and Distribution, .٢٠١٥ Dr. Hussein Jamil, Human Rights -٣ in the Arab World, Center for Arab Lebanon, -ies, Beirut Unity Stud .١٩٨٦ Bayati, -Dr. Rifaat Sabri Salman Al -٤ Human Rights in the Constitutions of A Comparative -the Arab World Farabi, Beirut -Analytical Study, Dar .٢٠١٣Lebanon, -	(Main references (sources
A. Nasreen Muhammad Abdo -١ Hassouna, Human Rights: Concept, Characteristics, Classifications and Sources, Unpublished Master's .٢٠١٥Aluka Network , -Thesis, Al Charles Tilly , translated by -٢ Muhammad Fadil Tabbakh, Organization for Democracy, Arab Translation, Center for Arab Unity .٢٠١٠Studies, Beirut, Lebanon, Dr. Muhammad Mandour, -٣ Political Democracy, Hindawi	Recommended supporting books and (...journals, reports references (scientific

.٢٠١٧Foundation, United Kingdom, Dr. Sabri Saeed, Democracy, -٤ Nahdet Misr for Printing, Publishing .٢٠٠٧Cairo, ،and Distribution	
nothing	Electronic references, websites

Course Description

13. Course Name
cell biology
14. code Course
SCBB04CL211
15. Year /Semester
Third/Second
16. description was prepared Date this
٢٠٢٥/١٠/١
17.forms of attendance Available
mandatory
18.(Number of study hours (total) / Number of units (total
units ٣hours / ٦٠
19. if there is more than one,) Name of the course coordinator (please mention it
: Name: Dr. Rana Hussein Nasser Emailranaalqaysi@uodiyala.edu.iq Muhammad .M.MShakir Mahmoud :iq.edu.basicsci26@uodiyal
20. objectives Course
• .To become familiar with cell biology • .To show the types of differences between cells and where they are located • .To learn about the function of each type of cell : objectives Cognitive • .To know cell biology • .To explain the types of cells that make up the bodies of living organisms • .To draw different types of cells • . To explain the function of each organelle

• .To identify the types of organelles according to function...etc

:the course b) The specific skills objectives of

• .To compare cell types

• .To explain in detail the general characteristics of each type of cell

• .and animal cells plant To distinguish between

• .To mention the interrelationship between the work of these devices with each other

• .s that affect the different systems of the human bodyTo know the disease

:based objectives–and value Affective –C

• .cell biology to think and analyze topics related to To be able

• . in the laboratory performance to think and analyze topics related to practical To be able

21. Teaching and learning strategies

• Lecture • .Open discussion • Simulation • laboratory • learning-self	strategy

22. Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	The microscope and its - .types	A brief history of cell - biology cell biology The relationship of cell biology to other scien	٦	the first
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	How to use the- microscope	Levels of organization in theory cell	٦	the seco
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	The concept of - prokaryotic cells The concept of eukaryot cells	Cell structure, cell size Cell shape, cell numbe .of cells Types	٦	the thir
Performance te (Oral/Written)	- Simulat - laborat	The general concept of - the cell	Prokaryotic cells -1 Bacteria\	٦	Fourth

	- discussi - Lecture	And its features And its relationship to - heredity	Eukaryotic cells – Alga (Protozoa (plants		
Performance te (Oral/Written)	- Simulat - laborat - discussi	Plant cell- importance Its Its features -	Cell contents: Plasma - membrane, Endoplasm reticulum Golgi apparatus/lysosomes	٦	Fifth
Performance te (Oral/Written)	Simulation - Discussion-	The plant cell and its characteristics	Cell wall \ Nucleus-٦	٦	Sixth
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	Animal cell- - Its importance - Its features	Plastids/Vacuoles-٧	٦	Seventh
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	Animal cell- - Its features - Its importance	Organic components - inside the cell Proteins- Carbohydrates - fats- Nucleic acids	٦	Eighth
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	- Cell division For living organisms	Inorganic components Ions – Salts – Water gases Chromosomes -١٠	٦	Ninth
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	- The stages of division cellular in cells	First Monthly Exam -	٦	tenth
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	Characteristics of organis The living organism used inheritance In genetics experiments	Cell division-١١ mitosis meiosis	٦	eleven
Performance te (Oral/Written)	- Simulat - laborat - discussi - Lecture	Cell components and th representation In its living form	Stages of sperm -١٣ formation and stages of the eggs	٦	twelve
Performance te (Oral/Written)	- discussi - laborat - Lecture	And representing it in it .living form	A brief history of cell - biology The relationship of cell biology to science . The other	٦	thirteen
Performance te (Oral/Written)		Second month exam	Second month exam	٦	quarter
Performance te (Oral/Written)		Comprehensive exam	Comprehensive exam	٦	fifteen

23. Course evaluation

is distributed according to the tasks assigned to the student, such as ١٠٠The grade out of .oral, monthly, and written exams, reports, etc ،daily preparation, daily

Degree	Grade distribution
٢٥) ٤٠ theoretical and (practical ١٥	Monthly theory exam + daily exam + attendance reports +
٤٠) ٦٠ theoretical and (practical ٢٠	Final exam grade
١٠٠	Final grade

24. Learning and teaching resources

- .Books that deal with the subject of cell biolo	(Required textbooks (methodology, if applicable
- sources - Websites	(Main references (sources
Scientific journals specializing in cell biology a other published research	Recommended supporting books and (...references (scientific journals, reports
.....	Electronic references, websites

Course description template

Course Name
computers
code Course
SCBB04CO217
Year /Semester
Third/Second
description was prepared Date this
٢٠٢٥/١٠/١
forms of attendance Available
mandatory
(Number of study hours (total) / Number of units (total
٣٠
if there is more than one, please) Name of the course coordinator .(mention it
:Email .A -Name: M.D. Zainab Qahtan Al
objectives Course

Students' knowledge of the concept of computers of computers importance the of Students' awareness used common methods identifying the most and developments important Identifying the most computers in innovations and for the sake of mastery computers to know Getti creativity	Course objectives

Teaching and learning strategies	
• Enabling students to acquire knowledge and understanding of the concept of computers • To enable students to acquire knowledge and understanding of the concept of	strategy

computer programs • Enabling students to acquire knowledge and understanding of the concept of . methods computer usage • concept of To enable students to gain knowledge and understanding of the computers used commonly • Enabling students to gain knowledge and understanding of the concept of comput diversification • Enabling students to acquire knowledge and understanding of the concept of and their developments innovations computer	

se structureCour

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Class participation, lecture preparation, daily quizzes	meeting The ... is The answ discussion	Run the :- Word and create progra a shortcut icon for the program on th desktop Office	Enabling students t Knowledge and understanding of th nature of computers their types, and the need for them	٢	the firs
Class participation, lecture preparation, daily quizzes	The ، questioning the discussion	Getting to know t and Word interfa explaining its components And the file menu commands.	Enabling students t Knowledge and understanding of th of basic elements computers	٢	the second
Class participation, lecture preparation, And daily quizzes its practical application	The ، questioning the discussion	Creating a work page and explainir the main menu and its groups	Enabling students to Knowledge and of understanding Occasion software and factors Influential in its selection, evaluation, and up-follow	٢	the thi
Class participation, lecture preparation, daily quizzes	The questioning the ، discussion	Explanation of the clipboard and collection paragraph	Enabling students to know and understand the concept of Its software and advantages	٢	Fourth

			disadvantages		
Class participation, lecture preparation, daily quizzes, and practical . application	The questioning the ، discussion	Explanation of group of paragraphs and group of patter Liberation Group	Enabling student to know and understand the concept of software downloads	٢	Fifth
Class ،participation lecture preparation, daily quizzes	The questioning the ، discussion	Explanation of the Page Layou tab and group layout	Enabling student to know and understand the concept	٢	Sixth
Class participation, lecture preparation, daily quizzes, and practical . application	The questioning the ، discussion	Explanation of the page numbering system and the group Page background, paragraph, and arrangement group	Enabling student to know and understand the printing concept	٢	Sevent
Class participation, lecture preparation, daily quizzes	The ningquestio the ، discussion	Explanation of the display tabs document displ methods, and group show	Enabling student to know and understand the concept of programmed learning	٢	Eighth
Class participation, lecture preparation, daily quizzes And its practical application	The questioning the ، discussion	Explanation of the zoom in/out group and the group Microsoft Window and Modules	Enabling students to learn and receive education through correspondence	٢	Ninth
Class participation, lecture preparation, daily quizzes	The questioning the ، discussion	Explanation of the Insert menu and Page Set	Enabling students to know and understand Computers and their types in general	٢	tenth

Class participation lecture preparation, daily quizzes And its practical application	The questioning the discussion	Explanation of the set of tables	Enabling student to know and understand the concept of software diversification	٢	atheist ten
Class participation, lecture preparation, daily quizzes	The questioning the discussion	Explanation of the group illustrations	Enabling student to know and understand For fields of computer use	٢	the second ten
Class participation, lecture preparation, daily quizzes And its practical application	The questioning the discussion	Explanation of the group Connections	Enabling students to learn and understand computer skills	٢	the thi ten
Class participation, lecture preparation, daily quizzes	The questioning the discussion	Explanation of the header and footer set	Enabling students to learn and understand statistical . software	٢	Fourth ten
Class participation, lecture preparation, daily quizzes And its practical application	The questioning the discussion	Explanation of set of text and a set of symbols	Enabling students to know and understand the Using method shortcuts in computers	٢	Fifth ten
Course evaluation					
is distributed according to the tasks assigned to the student, such as ١٠٠ grade out of The .daily preparation, daily, oral, monthly, and written exams, reports, etc					

	Degree	Grade distribution	
	٤٠ (٢٥ theoretical and (practical ١٥	Monthly theory exam + daily exam + attendance reports +	
	٦٠ (٤٠ theoretical and (practical ٢٠	Final exam grade	
	١٠٠	Final grade	

Learning and teaching resources	
publications in the prescribed The latest curriculum computer science	Required textbooks (methodology, if (applicable
	(Main references (sources
	Recommended supporting books and references (scientific journals, (...reports
	Electronic references, websites

Course Description Form

1. Course Name :
General English/New Headway Plus (Beginner)
2. Course Code :
SCBB04EL216
3. Semester/ Year : second semester/2025-2025
4. D escription Preparation Date: 15 weeks
15 weeks
5. Available Attendance Forms :
: New Headway Plus (Beginner) 1st class
6. Number of Credit Hours (Total) / Number of Units (Total)
2 hours a week / 6 units

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

Name: ashwaqabedul Mahdi Hussein
Email:inst.ashwaq@gmail.com

8. Course Objectives

Course Objectives	1-To make the students able to speak English fluently and tocommunicatewithothers. Also, to enable the students to master theskills of English language (listening, speaking,reading, writing) 2-Using Headway will help the studentsto listen, talk, read and write correctly using English Language. Also, helping 3-enable the students to watch videos of movies or plays to be ableto discuss themafterwatching

9. Teaching and Learning Strategies

Strategy	Using discussion and debate with the students and using communicative language teaching in presenting the material.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1- 2- 3- 4-	2 2	UsingHeadwayw help the students to listen, talk, rea and write correc using English Language. Also, helping the students to watch videos of movies or plays t	-Hello Numbers1- How are yo Where I live -Prepositions People and Jobs -Irregular verbs - Times:Past	Communi ve approach	

5- 6- 7- 8- 9- 10 - 11 - 12 - 13 - 14 - 15 -			simple *First Monthly Exam* -your world Countries numbers 11-30 Please and thank you -Shopping, food, and in a restaurant -*Second Monthly Exam* What's the matter? -Reading and writing		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, dailyoral, monthly, or written exams, reports .... etc

Degree	توزيع الدرجة
٤٠	Monthly theory exam + daily exam + attendance reports +
٦٠	exam grade Final
١٠٠	Final grade

12. Learning and Teaching Resources

Required textbooks (curricular books , if any)	1-New Headway Plus (Beginner) By John and Liz Soars 2-Oxford University Press, 4th

	Edition, 2015. English Gram m ar In Use/Murph y / O xford University Press/ 2012.
Main references (sources)	Internet Reading passag es
Recommended books and references (scientific journals, reports...)	-------
Electronic References, Websites	-----

Course description template

: Course NameVirology
: code CourseScie 2311
/First Semester : Year /Semester ٢٠٢٤-٢٠٢٥
٢٠٢٥/٩/٥ : description was prepared Date this
person lectures within the -formats : Weekly in Available attendance

Education halls of the Science Department / College of Basic
hours ٣٠ : Total study hours/total units
if there is more than one,) Name of the course coordinator .(please mention it
:Email A'i- Name: Dr. Tamara Amer Taha AlBasicsci28@uodiyala.edu.iq
objectives Course

(a Introducing students to the science of virology in terms of structure, development, types of genetic material, methods of infection, and symptoms .resulting from viral infection (b Understands the mechanism of replication and the distinction betwe .replication patterns viral diagnostic methods Knows laboratory (c infection Understands the mechanism of viral (d the body's defense mechanisms .It explains immunity against viruses –E .against infection, and the mechanism for eliminating the disease to prevent, treat, and vaccinate against the proposed erstands howund – An vaccines (viral families (DNA virus families and RNA virus families Recognizes –g	Course objectives

Teaching and learning strategies	
Teaching and learning methods The lecture -A and questioning Presentation (b Discussion (c :Visual aids The blackboard- colored pencils data projector Models, photographs 1. Learning outcomes, teaching and learning methods, an : assessment Knowledge and understanding Virology is known -١A Knows viruses-٢A Understands the mechanism of reproduction -٣A Explains the methods of infection and transmission -٤A	strategy

of viruses He knows the methods of prevention and treatment -٥A .and is familiar with the proposed vaccines Distinguish between DNA virus families and RNA -٦A viruses specific skills-Subject Draws the types of viruses - ١B Distinguish between the lytic cycle and the lysosomal - production cycle for viral replication Draws a diagram of viral pathogenesis - ٣B -nDistinguish by drawing between enveloped and no -٤ enveloped viruses of DNA viruses and RNA viruses Thinking skills - Analytical thinking -١A Free thinking and divergent thinking -٢Q Critical thinking -٣Q Creative thinking -٤Q	
Course structure	

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Oral exam daily exam, monthly exam	Lecture	Virology -١ Naming the viruses -٢ Forms and genes of viruses Virus multiplication -٤ Virus transmission -٥ Pathology + First month exam -٦ laboratory Types of diagnosis Immunity against viruses + Immu response to viruses Vaccination + Types o Vaccines: Alpha Viral Viral families -١٠ Second Monthly Exam Continuation of viral families Viral families Rana -١١	Definition of virology, virus historical overview, branches virology Knowledge of virus naming and classification Identifying the shapes and sizes of viruses + differentiat of nucleic acid between types The mechanism of reproduction and differentiat between reproductive cycles Knowledge of transportation methods and mechanisms Pathogenesis First month exam -٦ Knowledge of laboratory diagnosis of viruses ody's Understanding the b defense mechanisms agai viruses + defining the response Innate and acquired immunity For injury viral A statement of the types of vaccines against viruses Introducing the Rana families Second Monthly Exam -١١ families Continuation of viral Introduction to viral families Rana And the ways it infects the and reproduces	٣ ho	1- The first wee 2- Second week 3- Third week 4- Week Four 5- The fifth wee 6- The sixth wee 7- Week Seven 8- The eighth w 9- Week Nine 10- Week Ten 11- ١١Week Ten 12- Second weel ten 13- Three Week ten 14- Week Four ten 15- Week Five ten

Course evaluation

according to the tasks assigned to the student, such as ١٠٠The grade is distributed out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

1- oral exams
2- Daily exams
3- monthly exams
4- preparation Daily
5- Intellectual questions to discuss the scientific material of each lecture
6- Encouraging scientific competitions based on lecture material

Learning and teaching resources	
1- Fundamentals of Virology 2- General virology	Required textbooks (methodology, if (applicable
-١ Fundamentals of Virology -٢ General Virology -٣ Human Virology -٤ Principles of Molecular Virology -٥ Medical microbiology /202 -٦ Principle of virology /5th edition/Kindle Edition	(Main references (sources
:Journal periodicals Virus, medical virology, molecul virology	supporting books and Recommended (...references (scientific journals, reports
Wikipedia, PubMed, PubLondon	Electronic references, websites

Course description template

25. Course Name
Psychology of teaching classroom thinking
26. Course code
CURSE3
27. Semester/Year
2025-2026 Chapter Two
28. Date this description was prepared
٢٠٢٦/٤/٨
29. Available forms of attendance
My presence
30. (Number of study hours (total) / Number of units (total
٢
31. Name of the course coordinator (if there is more than one, .(please mention it
:tends A The letter :the name Dr. Tawfiq Qaddouri basicsc21@uodiyala.edu.iq Dr. Mohammed Shaker Mahmoud basicsc38@uodiyala.edu.iq : A'imel- Al M.M. Farah Hassan Hadi Basicsci30@uodiyala.edu.iq : A'imel- Al M.M. Yusra Khalaf Muhammad Basicsci42@uodiyala.edu.iq : A'imel- Al M.M. Hanan Hajem Murad Basicsci40@uodiyala.edu.iq : A'imel- Al M.M. Zainab Qasim Muhammad Basicsci27@uodiyala.edu.iq :Ayyil - M.M. Sakina Muhammad Ali Al

Basicsci37@uodiyala.edu.iq
: A'imel- Al M.M. Duha Yahya Basicsci39@uodiyala.edu.iq

32. objectives Course	
• ..... • ..... •	Course objectives Understanding learning concepts and theories Understanding the nature and types of classroom thinking Developing skills in using thinking teaching strategies Analyzing student behavior within the classroom environment Employing psychological methods improve the learning process
33. Teaching and learning strategies	
Discovery – Collaborative learning – Active learni –directed learning -Self –learning strategy Feedback – Brainstorming strategy	strategy

Course Structure-١٠					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Posts and exams	Training and Activities	The concept of learning and teaching The concept of classroom learning The classroom as -a cognitive psychological environment	Understanding learning, teaching, classroom learning, and the classroom as a psychological environment	٢	the first
Posts and exams	Training and Activities	Classroom management Standards of a good teacher	Learn about classroom management Standards of a good teacher	٢	the second
Posts and exams	Training and Activities	The concept of the classroom as a cognitive field Explanation of classroom learning Bruner and Janie model	Understanding the concept of the classroom as cognitive a field	٢	the third

Posts and exams	Training and Activities	Carl's model Ausubel's – model	Understanding the difference between the two models	٢	Fourth
month exam First				٢	Fifth
Posts and exams	Training and Activities	Piaget model blended learning	Learn about cognitive learning and the importance of blended .learning	٢	Sixth
Posts and exams	Training and Activities	The importance of the online classroom	classroom -e application	٢	Seventh
Posts and exams	Training and Activities	impactful links of the teaching and learning process	Understanding the impactful links in the learning and teaching process	٢	Eighth
Posts and exams	Training and Activities	Electronic tests and their design methods	Explanation of the tests	٢	Ninth
Posts and exams	Training and Activities	Learning to think	Distinguishing types of thinking	٢	tenth

Posts and exams	Training and Activities	The importance of thinking	Understanding the importance of learning to think	٢	eleventh
Posts and exams	Training and Activities	thinking patterns	Explaining thinking patterns	٢	twelfth
Posts and exams	Training and Activities	، scammer mal4 and ، colb	Practical applications of models	٢	thirteenth
Posts and exams	Training and Activities	Comprehensive review	Comprehensive review	٢	fourteenth
Second month exam				٢	fifteenth

Evaluation methods -١١

is divided into two main parts (١٠٠)The total course grade :

- **marks for continuous assessment, including (٤٠)First: simplified oral and written exams, as well as marks for attendance and active classroom participation.**
- **written exam marks for the final (٦٠)Second:**

etween Thus, the assessment system is based on a balance b continuous assessment and the student's performance in the final exam according to specific skill standards.

Learning and teaching resources - ١٢	
The psychology of learning: between the associative and cognitive perspectives. Educational psychology. Teaching and learning: theoretical foundations and practical applications.	1- Required textbooks
The psychology of learning: between associative and cognitive the perspectives	Main references and - ٢ sources
The psychology of learning: between the associative and cognitive perspectives	Recommended books and (a references(scientific journals , reports, etc. (
Google Scholar	Electronic references, (b websites...

of the course description Growth

Course Name
and Embryology Histology
Course code
SCBB04HE221
Semester/Year
Second / Second
Date this description was prepared
٠١-١٠-٢٠٢٥
Available forms of attendance
mandatory
(total) / Number of units (total) Number of study hours
٣number of units: ،hours ٦٠
Name of the course coordinator (if there is more than one, please .(mention it
:tends A The letter the name : Email Razzaq-Dr. Dina Abdel dena.abdalrazaq86@gmail.com : Email ،Dr. Aws Zamil Abdul Karimbasicsci15@uodiyala.edu.iq : Ayyam- Al M.M. Fatima Mahmoud Alibasicsci62@uodiyala.edu.iq
objectives Course

The aim of descriptive histology studies is to understand the .microscopic structure of tissues Descriptive histology is .And how it is organized and member deals with describing the M the branch of histology that structure The function of cells, tissues, and organs, using microscopy an techniques .Related It is important to understand normal and abnormal .pair of tissuesdevelopment, function, and re And organs. Tissue study helps	Course objectives

Descriptive approaches help in identifying the causes of diseases, understanding their development, and determining .appropriate treatments It is also essential for training medical students, researchers, .physicians in the field of medicine and Main objective from Clinical tissue study he Diagnosis of diseases Determining its nature and the extent of its impact on tissues and organs .In the body Studying helps Clinical tissue In determining appropriate treatment For medical condition assessment Treatment success And determining the extent of its effect on tissues And the organs. It also helps in Understanding the mechanisms of development Diseases and identifying factors The one that influences it And the developmen of new treatments.	

Teaching and learning strategies	
- Lecturer - discussion - Simulation - Interrogation - Laboratory method	strategy

Course structure

Evaluation Method	Learning method	Required learning outcomes	Unit or topic name	Hours	Week
Continuou assessmen participat on) Reports– Duties– Interactio	For the revised –lecture discussion	A science that studies tissues	Origin, definition, and divisions of histology	٢	١
Calendar Continuou Participat	Discussion and questions	The fabric she cells They onnected to each are c	Primary cell and tissue	٢	٢

Descriptive approaches help in identifying the causes of diseases, understanding their development, and determining .appropriate treatments It is also essential for training medical students, researchers, .physicians in the field of medicine and Main objective from Clinical tissue study he Diagnosis of diseases Determining its nature and the extent of its impact on tissues and organs .In the body Studying helps Clinical tissue In determining appropriate treatment For medical condition assessment Treatment success And determining the extent of its effect on tissues And the organs. It also helps in Understanding the mechanisms of development Diseases and identifying factors The one that influences it And the developmen of new treatments.	

Teaching and learning strategies

- Lecturer - discussion - Simulation - Interrogation - Laboratory method	strategy

Course structure

Evaluation Method	Learning method	Required learning outcomes	Unit or topic name	Hours	Week
Continuou assessmen participat on) Reports– Duties– Interactio	For the revised –lecture discussion	A science that studies tissues	Origin, definition, and divisions of histology	٢	١
Calendar Continuou Participat	Discussion and questions	The fabric she cells They onnected to each are c	Primary cell and tissue	٢	٢

on) Reports– Duties– Interactio		.other However, the cells in the tissue are not identical, even though they work together to accomplish specific ‘functions For example, muscle tissue contains muscle cells whose contraction causes muscle movement. Muscle instissue also conta Nerve cells as well, which send signals to tell the muscles when It should either shrink ‘or expand. Therefore A tissue sample taken for examination contains Under a microscope biopsy) on many) types of cells, although The doctor may be a type interested in only one			
Continu ous assessme nt particip) ation)	discussion And the questions	‘ epithelium epithelium, or layer Epithelium , or epithelial tissue, is a group of cells They come together to part of the cover a .body It belongs to the .epithelial tissue External coverage for members And glandular tissues. The epithelium lies above the connective .tissue	epithelial tissues	٢	٣

Reports – Duties –		simple epithelial tissue and the vehicle	Classification epithelial of tissues		٤
Interaction	Lecture Modified Discussion	Protection, absorption, and secretion Sensory reception and reproduction	Functions of epithelial tissues	٢	5
Continuous assessment particip) ation)	Discussion and questions	Cells, fibers, basic material	connective tissue	٢	٦
			Monthly exan the first		٧
Interaction	discussion And the questions	Cartilage is one of the structures The important structure in the human body, which A key role in plays many jobs From the Important vitality in body	cartilage	٢	٨
Continuous assessment particip) ation)	discussion And the questions	special connective tissue	bone -	٢	٩
Reports – Duties –	discussion And the questions	special connective tissue	Blood, lymph and hematopoietic tissue	٢	١٠
Interaction	discussion And the questions	The main component in nerves	nervous tissue	٢	١١

Continuous assessment particip) ation)	discussion And the questions	Human morphology includes research into the study of body .structure Human in relation to its development With And his function through science Human anatomy and embryology Histology	Human morphology	٢	١٢
Reports – Duties –	discussion And the questions	Cleavage stage ((division The fertilized egg undergoes several resulting in ·divisions It contains a group of cells It is known as the Falajat and continues A The divisions to the mass of cells known as With the bacterial mass	splitting	٢	١٣
Interaction	discussion And the questions	Ectoderm. Mesoderm. The . epidermis Endoderm.	layer -Three composition	٢	١٤
Continuous assessment particip) ation)	discussion And the questions	Genetics, environment, and hormones	Influencing factors On the formation	٢	١٥
Achievement test	Second month exam				١٦

Course evaluation

١٠٠ The grade out of is distributed according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, .reports, etc

٢٥ Theory exam + daily exam score = ١٥ Practical exam grade = ٤٠ theory exam grade = Final ٢٠ Final practical exam grade = ١٠٠ Final grade =

Learning and teaching resources	
-Embryonic Histology, Professor Dr. Nahla Al Bakri Histology and Embryology, Assistant Professor Wajdan Bashir .Dr	Required textbooks (methodology, if applicable)
clark B. Normal bone anatomy and physiology. Clin J Am SocNephrol . 2008;3 Suppl 3(Suppl 3):S131-9. Aerssens J, Dequeker J, Mbuyi-Muamba JM. Bone tissue composition: biochemical anatomy of bone. ClinRheumatol . 1994;13 Suppl 1:54-62.	(Main references (sources
	Recommended supporting books and references (...scientific journals, reports)
	Electronic references, websites

Course description template

34. : Course Name
Invertebrate scienceInvertebrates
35. : code Course
Scie 2314
36. : Year /Chapter
٢٠٢٦-٢٠٢٥year Second semester / Academic
37. : description was prepared Date this
٢٦ ٢٠/٣/٢٤
38.: forms of attendance Available
person lectures held in the halls of the Science Department / College -Weekly in of Basic Education
39.Practical : Total study hours/total units
of practical training hours ٣٠ hours of theory + ٣٠
40. if there is more than one,) Name of the course coordinator .(please mention it
:Email A'i- Name: Dr. Tamara Amer Taha AlBasicsci28@uodiyala.edu.iq : M.M. Manar Abdul Qader, Email Basicsci61@uodiyala.edu.iq \
41. objectives Course

invertebrates Introducing students to the science of –A The importance of invertebrates : their benefits and drawbacks –B Knows the scientific nomenclature and scientific classifications (c He becomes familiar with the primary school division (c ds the differences between the classes of the phylum Protozoa: Understan .Streptococcus, Flagellates, Ciliates, and Sporozoans He knows the phylum Sponges and studies its types –e .the most important characteristics of the Cnidaria phylum explains identifies the most prominent characteristics of the aquatic The student (g class Identify the phylum Flatworms –Q Identifying the phylum Nematodes –Sh Understands and recognizes the differences between types of segmented worms Khoya people Explains the differences between the –D	Course objectives

42. Teaching and learning strategies

Teaching and learning methods Lecture-A b) Presentation and interrogation c) Discussion Practical lessons -D :Visual aids The blackboard- colored pencils data projector Models, photographs .١ Learning outcomes, teaching and learning methods, and :assessment Knowledge and understanding :Cognitive objectives -A 1- To know invertebrates 2- To show the structures that make up the bodies of elementary organisms 3- sTo draw the structure of elementary organism 4- To explain how reproduction occurs in the pores 5- To become familiar with the phylum Cnidaria 6- I recognize the sponge species 7- To mention the benefit of soft foods	strategy

8- To identify different types of mollusks

9- threadworms, ‹To understand the differences between flatwor and segmented worms

Skills objectives -b

1- To compare the Ascon style And the psycho And the liconite of the porosity division

2- To explain in detail the class of calyces

3- To remember the connection between the calcareous class a hexagonal rays

4- To be able to draw the life cycles of invertebrate worm speci

:based objectives-Affective and value -C

1- Enabling students to think and analyze topics related to invertebrates

2- Enabling students to think and analyze topics related to practica in the laboratory performance

3- Enabling students to analyze topics related to diseases caused by invertebrates and find

Treatments for these diseases

Types of thinking

Analytical thinking -١A

Free thinking and divergent thinking -٢Q

Critical thinking -٣Q

Thinking Creative – ٤Q

43. Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
oral exam Daily exam monthly exa	Lecture an offer the pictu And the lessons The	Invertebrate -١ science Primary Schools - Division	Definition of Lavriatology , -١ Historical Introduction The importance of invertebrat general and scientific nomenclature Identifying the primary -٢	week	1- ١Week 2- ٢Week 3- ٣Week 4- ٤Week 5- ٥Week

	proces	Primary Schools - Division First month exam- Phylum Cnidaria- Division of - Sponges 5- Division of Worms 6- Flat . 7- Phylum of surface wor 8- Phylum Nematodes 9- Phylum Annel 10- Second month exam 11- Soft Division 12- Completion of Soft Section 13- dermal -Spiny phylum 14- Division of Arthropoda 15- Continuation the Arthropod phylum	division/stromal class Distinguishes between the class of flagellates the And the ciliaries sparrows 4- First month exam Recognizes the phylum - Cnidaria : Hydra, Aurelia , Sea Anemones He differentiates between the Ascon style Walikoni And psycho For sponges Phylum Platyworms: - Characteristics Classification, examples of .flatworms Completing the models - Identifying the phylum - :Nematodes It examines features, .classification , and models Phylum Annelids: - Characteristics Classification, Models 10- Second month exam 11- Division : Features , Classification Models Soft Completion of the Section 12- Dysporum (Echinoderms): Characteristics, Classification Models Completing the Soft Section Forms (Divology (Echinococcus- Pylum Arthropoda- Continuation of the - Arthropoda Phylum Models		6- Week 7- Week 8- Week 9- Week 10- Week 11- Week eleven 12- Week Twelve 13- Week 14- Week Fourteen 15- Week fifteen

44. Course evaluation

assigned to the student, such as daily according to the tasks The grade is distributed out of .preparation, daily, oral, monthly, and written exams, reports, etc

- Oral examinations
- Daily tests
- Monthly exams

٤- Daily preparation ٥- lecture Intellectual questions to discuss the scientific material of each ٦- Encouraging scientific competitions based on lecture material	
45. Learning and teaching resources	
➢ invertebrates Written by Murad Baba Murad Invertebrat Zoology 2006. Barnes ➢ Zoology 2007. Dora, Rober , L;Walker Jr. , Warren F.; Barnes , Rober ➢ Invertebrat Zoology 2007. Ruppert Edward E.;Barnes;Robert. ➢	Required textbooks (methodology, if (applicable
1- General Invertebrate Science	(Main references (sources
Journal periodicals	Recommended supporting books and (...reports .references (scientific journals
Wikipedia, PubMed	Electronic references, websites

Course description template

Course Name	
Biochemistry	
Course code	
٣٣١٩	
Semester/Year	
Chapter Two / ٢٠٢٥-٢٠٢٦	
prepared Date this description was	
2026/4/1	
Available forms of attendance	
My presence	
(Number of study hours (total) / Number of units (total	
Two hours of theory and two hours of practical work per week	
Name of the course coordinator (if there is more than one, please mention it.	
Name: Dr. Muthanna Saeed Ali :email A'a -Al basicsci18@uodiyala.edu.iq Name: M.M .Al Saleh Mahdi Saleh A. -Al salihmahdi@uodiyala.edu.iq Name: M. Hind Abdul Latif Abdul Wahab :email A'imel- Al hind.abdullatief@uodiyala.edu.iq Head of Chemists : Shaimaa Mahdi Mustafa, Email Shemaaah32@uodiyala.edu.iq Note: The last line appears to be a separate, unrelated statement and is not translat(.	
objectives Course	
• . biochemistry To know • To know the types of compounds found chemical within the body of a living organism • To know the name and shape of different types of compounds chemical	Course objectives
Teaching and learning strategies	

several teaching ‹To present the material to the students :methods were used, including Lecture method - Interrogation method - Simulation method Discussion method Laboratory method	strategy

Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Written and oral tests Perform) (ance	- Laboratory The - lecture - Discussion - Simulation	- Names and shapes of laboratory equipment	- An introduction to the importance of biochemistry and its relationship to other .sciences	٢	first the
Written and oral tests Perform) (ance	- Laboratory - Simulation - Laboratory - Discussion	Molesh Detector	- The basic biological molecules that build a living .organism	٢	the second
Written oral and tests Perform)	- Laboratory -	- Molesh Detector	- Carbohydrat :es	٢	the third

(ance	Simulation - Discussion The - lecture				
Written and oral tests Perform) (ance	- Laboratory - Simulation - Discussion The - lecture	- Iodine detection	- Definition and presence of carbohydrat .es	٢	Fourth
Oral tests Editorial Perform) (ance	- Laboratory - Simulation - Discussion The - lecture	Iodine detection	- Carbohydrat e classificatio n	٢	Fifth
Oral and) written performa (nce tests	- Laboratory - Simulation - Discussion The - lecture	- First month exam -	- The importance of carbohydrat .es	٢	Sixth
Performa nce tests oral/writ)	- Simulation	- Benedict revealed	- month First exam	٢	Seventh

(ten	- Discussion The - lecture - Laboratory				
Oral,) written, and performance) tests	- Simulation - Discussion The - lecture - Laboratory	- Parvoid detection	- :Proteins	٢	Eighth
Oral,) written, and performance) tests	Simulation discussion laboratory Lecture	- Tulin Detector	- Functions of .proteins	٢	Ninth
Oral,) written, and performance) tests	Simulation laboratory discussion Lecture	- Tulin Detector	- Amino acids, . peptides	٢	tenth
Perform) ance tests: oral and (written	laboratory discussion Simulation Lecture	- Silvanov Detector	- :Fats	2	eleven
Perform) ance :tests written (and oral	Simulation discussion laboratory Lecture	- Silvanov Detector	- Functions of fats , classification of fats,	2	twelve

			and their .importance		
Tests (oral) Performance (Editorial	Simulation discussion laboratory Lecture	- Second month exam	- Nucleic . acids	2	thirteen
Tests Perform) (ance Editorial (oral)	Simulation laboratory discussion Lecture	-	Second month exam	2	fourteen
Tests Perform) (ance oral (Editorial		Comprehensive exam	Comprehensive exam	2	fifteenth

Course evaluation
is distributed according to the tasks assigned to the ١٠٠The grade out of written exams, student, such as daily preparation, daily, oral, monthly, and .reports, etc

Learning and teaching resources	
Fundamentals of Biochemistry	Required textbooks (methodology, (applicable
Principles of Biochemistry	(Main references (sources
The Scientific Academy Journal issu by Diyala University	Recommended supporting books and journals, references (scientific (...reports
Wikipedia	Electronic references, websites

Course description template

Course Name:
Plant physiology
code Course
SCBB04HP224
:Year /Chapter
Fourth/Second
:description was prepared Date this
٢٠٢٦/٣/٢٠
: forms of attendance Available
My presence
: (Number of study hours (total) / Number of units (total
٣hours, number of units: ٦٠
if there is more than one,) Name of the course coordinator .(it please mention
:Email .A -Name: A.M. Khamael Ali Karim Al basicsci2@uodiyala.edu.iq : Dr. Mohamed Ali Hussein, Email ad.mohmedali@gmail.com :Ayyil - M.M. Bahaa Nazim Ali Al basicsci16@uodiyala.edu.iq : A'imel -M.M. Salih Mahdi Salih Al salihmahdi@uodiyala.edu.iq
objectives Course

• Introduce students to plant physiology • Definition of plant physiologi functions	Course objectives

Teaching and learning strategies	
Using a data projector to present scientific material Using a whiteboard and colored markers to explain the scientific material Using process models and visual aids	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week

١	٤	Definition of a plant cell	Definition of plant organelles	Theoretical lectures hours and ٢ of hours ٢ work	Take a monthly te
٢	٤	Membrane diffusion osmotic fluids	Identifying the types solutions	Theoretical lectures hours and ٢ hours of ٢ work	Take a monthly te
٣	٤	bloating and pressure bloating			Take a monthly te
٤	٤	Plasma and its types	Immersion and factors Influential	Theoretical lectures hours and ٢ hours of ٢ work	Take a monthly te
٥	٤	growth organizations	Osmosis and the osmotic system		Take a monthly te
٦	٤		Transpiration and stomata distributi	Theoretical lectures hours and ٢ hours of ٢ work	Take a test month
٧	٤	Plant tissue culture	Radical pressure	Theoretical lectures hours and ٢ hours of ٢ work	Take a monthly te
٨	٤	Stillness	breathing		Perform a monthly te
٩	٤	photosynthesis	permeability	Theoretical lectures hours and ٢ hours of ٢ work	Conduct a monthly te
		Infusion and conduction	Spread and types	hours of ٢ theoretical lectures and hours of ٢ practical work	

	Theoretical ٢lectures: hours; Practical ٢lectures: hours				

13. Course evaluation

is distributed according to the tasks assigned to the student, such as ١٠٠The grade out of .etc ،daily preparation, daily, oral, monthly, and written exams, reports

Degree	Grade distribution
٤٠ (٢٥ theoretical and (practical ١٥	Monthly theory exam + daily exam + attendance reports +
٦٠ (٤٠ theoretical and (practical ٢٠	Final exam grade
١٠٠	Final grade

14. Learning and teaching resources

Theoretical and Practical Physiology Book	(textbooks (methodology, if applicable Requir
Theoretical and Practical Physiology Book	(Main references (sources
Theoretical and Practical Physiology Book	Recommended supporting books and (...references (scientific journals, reports
Wikipedia website	Electronic references, websites

Course description template

Course Name
Educational Psychology
code Course
Year /Semester
٢٠٢٤-٢٠٢٥
description was prepared Date this
٢٠٢٤/٣/٢٠

forms of attendance Available	
mandatory	
(Number of study hours (total) / Number of units (total	
30	
if there is more than one,) Name of the course coordinator .(please mention it	
:Email .A -Name: A.M. Israa Naji Kadhim Al basicsci17@uodiyala.edu.iq	
objectives Course	
Understanding the phenomena of learning and teaching, the factors affecting them, and interpreting the outcomes of events that permeate the relationship between learning and teaching, and between the teacher and the . learner	Course objectives
er's ability to see what is Increase the teach happening remotely in terms of educational changes among students and to plan to meet his . expectations in educational events of change	
Organizing, formulating, using, and applying .knowledge in educational situations	
Teaching and learning strategies	
Revised lecture- DiscussionInterrogation Brainstorming Motivationalquestions	strategy

Course structure					
Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Continuous) assessment participation- reports- assignments - (interaction	Revised - lecture discussion	•Definition of educational psychology •The importance of educational psychology •Goals of Educational Psychology • The of relationship educational psychology to other sciences	concept The of educational psychology is known It demonstrates the importance of educational psychology It defines the goals of educational psychology It distinguishes between the theoretical and	2	١

			practical goals of educational .psychology It defines the mechanism for transferring theoretical knowledge to the) applied (practical aspect within the school .classroom		
Continuous) assessment - daily exam participatio n- reports- assignments - interaction (	Discussion– Brainstormin g	•Desirable teacher personality) traits psychological –traits physical traits mental traits –	It defines the desired teacher's personality traits Lists the functions of educational	2	٢

		social traits –) • The function - of educational psychology	psychology		
Continuous) assessment participatio n- reports- assignments - (interaction	Discussion- Revised Lecture	•Explaining the educational process •The educational process and educational) psychology the pillars of the effectiveness of the educational (process • Factors affecting the effectiveness of the educational process	He explains the importance of the axes of effectiveness in the educational process It identifies the factors that influence the effectiveness of the educational .process	٣	٣
Continuous) assessment surprise - quiz	Discussion- Revised Lecture	•Definition of motivation • The educational	Motivation is known It shows the relationship	٣	٤

participatio n- reports- assignments - interaction (		functions of) motivation excitatory the the –function anticipatory the –function motivating the –function punitive or corrective (function	between motivation and .learning It identifies the educational functions of .motivation		
Continuous) assessment participatio n– reports– assignments – (interaction	Discussion– Brainstormin g	• Strategies for stimulating students' motivation to learn	He applies motivationa l stimulation strategies within the .classroom	٣	٥
Continuous) assessment oparticipati n– reports– assignments – (interaction	Discussion– Brainstormin g	•Definition of memory • The importance of studying memory	The concept of memory known is It explains how memory works It shows the	2	٦

			importance of studying memory It compares sequential and parallel processing .strategies		
Formative) assessment written (exam	First month exam			2	٧
Continuous) assessment participatio n- reports- assignments - (interaction	Brainstormin g- Motivational Questions	• Contemporary perspectives on the interpretation of memory and its models cognitive) -perspective avioral beh -perspective perspective Gestalt	Lists types of memory It explains the relationship between memory and learning . It presents the most important contempora	٣	٨

			ry theories that have explained .memory It explains the mechanism of memory according to cognitive .theory It explains the mechanism of memory according to behavioral .theory		
Continuous) assessment surprise - quiz participatio n- reports- assignments - interaction	Brainstormin g- Motivational Questions	•Memory mechanisms •Factors affecting the memory process • Ways to improve the	It discusses the mechanism .of memory It shows the most important	٣	٩

(		memory process	factors affecting the memory process It identifies the most important ways to improve the memory process		
Continuous assessment) surprise - quiz participatio n- reports- assignments - interaction (	Brainstormin g- Motivational Questions	•Causes of forgetfulness • A theory in explaining) forgetting previous) interference retrograde (inhibition and subsequent) interference progressive (inhibition	The concept of forgetting is known The mechanism of forgetting is explained through interference theory It identifies the most important factors affecting	٣	١٠

			forgetfulnes .s		
Continuous) assessment participatio n- reports- assignments - (interaction	Brainstormin g- Motivational Questions	•The importance of studying the transfer effect Training • Definition of transfer following training	The transfer following training is known It highlights the importance of studying transfer following training	2	١١
Continuous) assessment participatio n- reports- assignments - (interaction	Problem solving - discussion	•Dimensions of transfer effect Training • Theories of transfer following training	It shows the dimensions of the transfer following training It compares theories of training .transfer It designs	2	١٢

			educational situations that facilitate the transfer of the training (learning) .effect		
Continuous) assessment surprise - quiz participatio n- reports- assignments - interaction (	Problem - solving discussion	•Definition of feedback •Dimensions of feedback • Types of feedback	feedback is known It shows the dimensions of feedback It identifies the types of feedback	٣	١٣
Continuous) assessment surprise - quiz participatio n- reports- assignments - interaction	Brainstormin g- Divergent Questions	•Definition of learning •Conditions for good learning •Learning and) acquiring - language (motor skills	Learning is known It outlines the conditions for good learning It explains	٣	١٤

(			the impact of learning on language acquisition and motor skills .acquisition		
Continuous) assessment surprise - quiz participatio n- reports- assignments - interaction (	Problem - solving discussion	•Learning theories and laws •Discovery and Learning •Learning curves	It explains the most important learning theories and .laws It explains the relationship between discovery and .learning The skill of graphing different learning curves	2	١٥

Formative assessment (written exam)	Second month exam	2	١٦

Course evaluation
is distributed according to the tasks assigned to the student, such as ١٠٠ The grade out of .preparation, daily, oral, monthly, and written exams, reports, etc daily

Learning and teaching resources	
	Required textbooks (methodology, if applicable)
Fadel Mohsen Azirjawi , founders–Al Educational Psychology Zaghloul, –Al Emad Abdel Rahim Principles of Educational Psychology Fouad Abu Hatab, Dictionary of Psychology and Education Saleh Muhammad Ali Abu Jadu, .nd ed٢ ،Educational Psychology Mahmoud Abdel Halim Mansi, Introduction to Educational Psychology Introduction to ،Izzat Jaradat Education	(Main references (sources
Recommended With some Research and	Recommended supporting books and references (scientific journals,

Theses and theses Which pertains to the . vocabulary of the subject	(...reports
learning -Babylon website through its e University of lectures service http://repository.uobabylon.edu.iq/elearning/elearning2012.aspx The website of the College of Basic Education, University of Diyalajs http://www.basicedu.uodiyala.edu.iq / Iraqi Academic Journals Website http://www.iasj.net/iasj	Electronic references, websites

template Course description

Course Name
Educational research methodology
code Course
SCBB04EC317
Year /Semester
Fifth/Third
description was prepared Date this
٢٠٢٥/١٠/١
forms of attendance Available
mandatory
(Number of study hours (total) / Number of units (total
hours practical ١٥hours theory and ٣٠hours: ٤٥ 2 units
if there is more than one,) Name of the course coordinator .(please mention it
:Email .A -Prof. Dr. Majid Abdul Sattar Al :NameBasicsci55@uodiyala.edu.i

objectives Course	
Cognitive objectives -A Enabling students to acquire --١A of the knowledge and understanding research methodology Enabling students to acquire -٢A For types knowledge and understanding of research methodology Students were taught how to apply -٣A hods to societal problemsresearch met Enabling students to acquire -٤A understanding of the knowledge and principles and steps of scientific research Enabling students to acquire the -٥A knowledge and understanding to apply action research methodology the the of objectives skill specific The -B course	Course objectives

of the steps for writing a descriptive research methodology – ١B Analysis the descriptive approach and the experimental approach Compares – ٢B scientific research in practice of Applying the steps – ٣B information by writing methodologies reports on research Gathers – ٤B based objectives–Affective and value –C To explain and analyze the concept of research methodology – ١A Compare the scientific method in descriptive research and the experimental method – ٢Q tes some problems that used Evalua the descriptive and experimental methods – ٣Q	

Teaching and learning strategies	
Giving or lecturing – ١ Question and Answer – ٢ Discussion–٣	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Daily tests	1- delivery 2- discussion	Action research methodology (its concept and importance	Enabling students to understand the concepts and importance of action research methodology	٣	1.
ing a Writ paper on the topic	Discussion and questioning	Characteristics of action research Ethical	To enable students to understand the	٣	2.

		considerations in educational research	characteristics of action research and the most important ethical considerations in educational .research		
Class participation	Discussion and ingquestion	Research Introduction: Research problem, rules for formulating the problem, importance of the research, conditions and writing of the importance of the research, research objectives, research limitations, research hypotheses, .defining terms	Enabling students to know the definition of research, its problem, rules for formulating it, its importance, conditions for writing it, research objectives, its limits, research hypotheses, and .defining terms	٣	3.
Daily tests	Discussion presentations	Theoretical framework, previous studies	Students should know what the theoretical framework is, what previous studies are, and how to write .them	٣	4.
chooses a problem and writes its steps	Problem solving	descriptive research	Students should be familiar with descriptive research in all its	٣	5.

.himself			.details		
Oral questions	Discussion and questioning	experimental research	Students should become familiar with experimental researc .in all its aspects	۳	6.
Writing a paper on the topic	Discussion and questioning	Search variables and their settings	Students should lear about research variables and how to .control them	۳	7.
test Monthly	First month exam			۳	8.
Class participation	discussion	Research population, sample members, sampling methods, probability –non sampling, sample size	Enabling students to understand the research population, samples and their -members, non probability samples, and .sample size	۳	9.
Writing a summary of the topic	discussion	Data collection tools: questionnaire, interview, .observation	Enabling students to learn about data collection tools questionnaires,) interviews, (observations	۳	10.
Daily test	Presentation discussion and	Statistical methods, their concept, importance, some statistical methods mean, median,) (mode	Introducing students to statistical methods in terms of concept, (mean, (median, mode	۳	11.
Writing a paper on the topic	Presentation discussion and	Presenting and interpreting the results Conclusions, recommendations, and proposals	To familiarize students with the mechanism for presenting and interpreting results, conclusions, recommendations, and proposals, and how to formulate	۳	12.

			.them		
Daily test	discussion and interrogation	Conducting a field visit to the college and university libraries to review some master's theses and doctoral dissertations	The students were given a field trip to the college and university libraries and shown some theses and .dissertations	٣	13
Writing a paper on the topic	Discussion and presentation	Summarizing a Master's thesis or PhD dissertation by students	Assigning students to prepare a summary of a master's thesis or doctoral dissertation	٣	14
Second month exam	Second month exam			٣	15

Course evaluation

is distributed according to the tasks assigned to the student, such as ١٠٠ The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
Theory ٢٤) ٤٠ with activities + Practical with ١٥ (activities	Monthly theory exam + daily exam + attendance reports +
theory + ٤٠) ٦٠ (practical ٢٠	Final exam grade
١٠٠	Final grade

Learning and teaching resources

Scientific Research Methods Book	textbooks (methodology, if Requi (applicable
Dr. Muhammad Sarhan Ali D. Abdul Rahman Badawi	(Main references (sources
Libraries	Recommended supporting books and (...references (scientific journals, reports
Scientific Research Portal	s, websitesElectronic reference

of the course description Growth

. Course name
General teaching methods and their applications
code Course
SCBB04GMT326
. Year /Chapter
First/Third
description was prepared Date this
٢٠٢٥/١٠/١
/ of attendance forms
mandatory
(Number of study hours (total) / Number of units (total
(practical ٣٠ theory and ٣٠) ٦٠
if there is more than one, please) Name of the course coordinator .(mention it
:Email .A -Name: A.M. Mona Abdullah Ismail Alaljmely30@gmail.com Basicsci9@uodiyala.edu.iq
objectives Course

⊢ Cognitive objectives Enabling students to acquire knowledge -١ and understanding of the concept of teaching methods Enabling students to acquire knowledge -٢ and understanding of the concept of teaching strategies to acquire knowledge Enabling students -٣ and understanding of the concept of teaching methods Enabling students to acquire knowledge -٤ and understanding of commonly used .teaching methods a) Enabling students to acquire knowledge	١. Students' understanding of the concept of teaching methods ٢. importance Students' awareness of the of teaching methods ٣. Identifying the most commonly used methods ٤. Identifying the most important trends and innovations in teaching methods ٥. Learning teaching methods for mastery and creativity ٦. Students' knowledge of teaching tion and strategiesdiversifica

and understanding of the concept of ied teachingdiversif Enabling students to acquire knowledge –١ and understanding of the concept of trends and innovations in teaching methods based objectives–Affective and value –٢ Developing a spirit of development and –١ renewal innovations Keeping up with the latest –٢ and developments in teaching methods Keeping pace with the use of technology –٣ in education Keeping abreast of global developments –٤ in educational and psychological sciences based objectives of the –The skills –٣ .course n distinguishing between Special skills i –١ methods Special skills in analyzing and – ٢ interpreting each method in terms of its advantages and disadvantages Skills in how to choose the best – ٣ teaching method Special skills in how to combine more –٤ ngle lessonthan one method in a si	
Teaching and learning strategies	
Brainstorming, the hot seat, the lecture method, the discussion solving method, and programmed -method, the problem .instruction	Strategy and teaching methods

Course structure					
Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Classroom participation in the lecture	delivery Interrogation discussion	Teaching theories: ‹ their concept and ‹ importance .focus	To enable students to know and understand teaching theories in terms of concept, importance, and interests	٤	the first
Classroom participation in the lecture	delivery Interrogation discussion	The relationship between teaching theory and – learning theory examples of teaching theories	Enabling students to know and understand the relationship between teaching theory and learning theory and to models apply .from them	٤	the second
Classroom participation in the lecture	delivery Interrogation discussion	Teaching -terminology: Teaching methods methods Teaching Teaching - strategies .models Teaching -	Enabling students to know and understand the appropriate teaching method and the most	٤	the third

			important techniques and strategies, while applying some teaching .models		
Classroom participation in the lecture	delivery Interrogation discussion	:Teaching skills concept Its - Its elements- Effective teaching Creative teaching	Enabling students to know and understand the concept and elements of skills, along with knowledge of effective and creative .teaching	t	Fourth
Classroom participation in the lecture	delivery Interrogation discussion	Teaching diversification and its strategies: The concept of teaching its – diversification its – justifications foundations and – principles teaching diversification .strategies	To enable students to know and understand the concept of differentiated instruction, its justifications, its most and important foundations and principles, while mastering the most important differentiated instruction .strategies	t	Fifth

Classroom participation in the lecture	delivery Interrogation discussion	The concept of diversifying its – teaching its – justifications foundations and – principles strategies for diversifying .teaching	To enable students to know and understand the concept of differentiated instruction, its justifications, and its most important foundations and principles, while mastering the most important differentiated instruction .strategies	٤	Sixth
Classroom participation in the lecture	delivery Interrogation discussion	Commonly used methods teaching (lecture) - Interrogation (	Enabling students to know, understand, perform and organize commonly used teaching methods lecture and) .(questioning	٤	Seventh
Achievement test	First month exam			٤	Eighth
Classroom participation in the lecture	delivery Interrogation discussion	Discussion - Induction and deduction	Enabling students to know, understand, perform, and organize the methods of ،discussion	٤	Ninth

			induction, and measurement .		
Classroom participation in the lecture	delivery Interrogation discussion	Teaching methods based on research, knowledge organization, and .inquiry Problem solving Units -	Enabling students to know, understand, perform, and organize -problem solving methods and based-unit .approaches	٤	tenth
Classroom participation in the lecture	delivery Interrogation discussion	The project- Appointments -	Enabling students to know, understand, perform, and organize project and assignment .methods	٤	eleventh
Classroom participation in the lecture	delivery Interrogation discussion	Cooperative learning and individual learning methods The cooperative - .learning method Individual - learning method	Enabling students to know, understand, perform, and organize both cooperative and individual learning .methods	٤	twelfth
Classroom participation in the	delivery Interrogation	Teaching methods for mastery and creativity	Enabling students to know,	٤	thirteenth

lecture	discussion	The method of - learning for mastery playing -Role - method	،understand perform, and organize the learning method for mastery and .playing-role		
Classroom participation in the lecture	delivery Interrogation discussion	brainstorming method	Enabling students to know, understand, perform, and organize the brainstorming method	٤	fourteenth
Achievement test	Second month exam			٤	fifteenth

evaluation Course

is distributed according to the tasks assigned to the student, such as ١٠٠The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Degree	Grade distribution
Theory ٢٤) ٤٠ with activities + Practical with ١٥ (activities	Monthly theory exam + daily exam + attendance reports +
theory + ٤٠) ٦٠ (practical ٢٠	Final exam grade
١٠٠	Final grade

Learning and teaching resources

The latest publications on methods and strategies, teaching covering the prescribed .curriculum	(Required textbooks (methodology, if applicab
Dr. Dawood Maher Mohammed and Majid Mahdi Mohammed: Fundamentals of General Teaching Methods	(Main references (sources

Amin: General -Shaker Al Teaching Methods for Social Studies The trick: teaching methods and strategies	Recommended supporting books and (...reports ،references (scientific journals
All books and references available online	Electronic references, websites

(Sustainable Development(Course description

Course Name
sustainable development
Course code
Semester/Year
Third / Sixth
Date this description was prepared
٢٠٢٥/٤/١
Available forms of attendance
mandatory
(Number of study hours (total) / Number of units (total
hours of theory (٣٠) units ٢
Name of the course coordinator (if there is more than one, .(please mention it
:Email A'i -Nawwar Thamer Mohammed Al .Name: Dr basicsci14@uodiyala.edu.iq
objectives Course

of the The student should be able to at the end academic year Sustainable Development Definition of • of Lists the characteristics sustainable development • of The historical development is sustainable development .shown • for the requirements It explains .sustainable development • of It analyzes the elements .sustainable development • information He possesses	Course objectives Among them Cognitive -A objectives Enabling -١A students to acquire knowledge and understanding of of the concept sustainable development Enabling -٢A students to acquire

	of about the dimensions . sustainable development • of It illustrates the philosophy .sustainable development • of the goals It outlines .sustainable development • He is aware of the challenges and obstacles to achieving the Sustainable Development . Goals • He is able to form partnerships to achieve .goals	knowledge and of understanding the characteristics sustainable of development Enabling -٤A students to acquire knowledge and of understanding the historical of development sustainable development Enabling -٥A students to acquire knowledge and of understanding the requirements sustainable of development Enabling -٦A students to ire acqu knowledge and of understanding of the elements sustainable development Enabling -٧A

	students to acquire knowledge and of understanding the dimensions Sustainable development Enabling -٨A students to acquire knowledge and understanding of Philosophy Sustainable Development The specific - B skills objectives of the course. Establishes - ١B partnerships to achieve the Sustainable Development Goals Achieving - ٢B goals practically the Analyzes -٣B goals Overcoming -٤B the challenges and obstacles that

	hinder the achievement of goals the Explains –٥B values and ethics sustainable of . development of The role –٦B sustainable in development addressing . problems Write a research –٧ sustainable on paper development.

Teaching and learning strategies	
Several teaching strategies and methods will be used to deliver information to students, including lecturing, discussion, questioning, problem .solving, etc	strategy

Course structure

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Preliminary test	Discussion and questioning	The concept of sustainable development and its definitions The reasons for - setting the Sustainable .Development Goals Characteristics of - sustainable development and the elements that ensure .uityits contin	Definition of Sustainable Development • Lists the characteristics sustainable of development	٢	1.
Daily te	Lecture	Historical development of	• The	٢	2.

	Problem solving	sustainable development	historical of development sustainable development .is shown		
Oral questio	Discussio n and questioni ng	Requirements for sustainable development	• It explains the requirements for sustainable development	٢	3.
Prelimi ry test	Lecture Problem solving	Elements of sustainable development - Economic aspect - social aspect - Environmental aspect - Technological aspect	•It analyzes of the elements sustainable .development	٢	4.
Daily te	Discussio n and questioni ng	Dimensions of sustainable development - Economic dimension - social distance - Environmental dimension - Technological dimension	He possesses information about the of dimensions sustainable development .	٢	5.
First month exam					6.
Prelimi ry test	Lecture Problem	Philosophy of Sustainable Development Values and ethics of	• It illustrates the philosophy	٢	7.

	solving	sustainable development The facts upon which - sustainable development is based	sustainable of .development		
Daily te	Discussio n and questioni ng	Sustainable Development Goals and Principles - The goal is to eradicate .poverty - The goal of good health being-and well	• It outlines of the goals sustainable developme .nt	٢	8.
Oral questior	Lecture Problem solving	The goal of good education The goal of gender equality The goal of clean water and hygiene The goal is clean and .affordable energy	• It outlines of the goals sustainable developme .nt	٢	9.
Prelimi ry test	Discussio n and questioni ng	The goal of decent work and economic growth The goal is industry, innovation, and .infrastructure The goal is to reduce .inequalities	• It outlines of the goals sustainable developme .nt	٢	10.
Daily te	Lecture Problem solving	Challenges and obstacles to achieving the Sustainable Development Goals Sustainable cities and .local communities Responsible consumption and production	• He is aware of the challenges and obstacles to achieving the Sustainable Development . Goals •	٢	11.
Oral questior	Discussio n and	- Climate action - underwater life - Life on land	• He is aware of the	٢	12.

	questioni ng	- Peace, justice, and strong institutions	challenges and obstacles to achieving the Sustainable Development . Goals		
Prelimi ry test	Lecture Problem solving	Forming partnerships .to achieve goals Iraq's vision for the Sustainable Development Goals	• He is able to form partnerships to achieve .goals	٢	13.
Daily te	Discussio n and questioni ng	The international - community's vision for the Sustainable . Development Goals Challenges and obstacles to achieving the Sustainable Development Goals	• He is able to form partnership s to achieve .goals	٢	14.
Second month exam				٢	15.

Course evaluation

according to the tasks assigned to the student, such as is distributed ١٠٠The grade out of .daily preparation, daily, oral, monthly, and written exams, reports, etc

Total	Final grade	Degree of pursuit	Grade distribution
١٠٠	٦٠	٤٠	Monthly theory exam + daily exam + attendance reports +

Learning and teaching resources

Nothing	(Required textbooks (methodology, if applicat
All Sustainable Development	(Main references (sources

References and Charters	
books written in the field of sustainable development	Recommended supporting books and (...references (scientific journals, reports
quality lectures and web –High hosting	Electronic references, websites

Course description template

: Course Name
Immunology
: code Course
SCBB04IS322
: Year /Chapter
٢٠٢٦-٢٠٢٥semester / Academic year Second
: description was prepared Date this
٢٠٢٥/٣/٢٤
: forms of attendance Available
person lectures held in the halls of the Science Department / College -Weekly in of Basic Education
Practical : Total study hours/total units
30 practical hours ٣٠ hour theory + ١
if there is more than one, please) Name of the course coordinator .(mention it
:Email A'i -Name: Dr. Sundus Adel Naji Albasicscl22@uodiyala.edu.iq
objectives Course

immunology. what immunity is. Introducing students to the science of -A .and what its types are	Course objectives
b) To become familiar with the immune system and its primary organs Secondary And cell types	
،Understands innate immunity and distinguishes between mechanical (c .chemical , and cellular barriers	
Distinguishes between the types of immune cells of innate immunity and (their biological roles	
Understands inflammation as a second line of defense within the innate -I .hronic inflammationimmune system and distinguishes between acute and	

He defines acquired immunity and distinguishes between active and –e .passive immunity .distinguishes between humoral immunity and cellular immunity – And Explains the mechanism of production, maturation, and differentiation of (B cells and T cells both .Explain what antigens are, their general characteristics, and their types – Define opposites, their structure, types, and vital roles –Q Define cytokines and the vital role of their types –S actionsExplains allergies, their types, and re –D Understands the mechanism of immune loading –A	

Teaching and learning strategies

	strategy
Teaching and learning methods **Lecture-A** **b) Presentation and interrogation** **c) Discussion** **Practical lessons -D** **:Visual aids** **The blackboard-** **colored pencils** **data projector** **Models, photographs** **.١ Learning outcomes, teaching and learning methods, and :assessment** **Knowledge and understanding** **known Immunology is -١A** **Learn about the immune system and explain the primary :Y-٢A .and cell types ،immune organs, secondary immune organs** **He defines innate immunity and distinguishes between mechanical, -٣ .chemical, and cellular barriers** **Differentiate between the types of immune cells of innate Y-٤A immunity and their biological roles** **ond line of defense within the Understands inflammation as a sec -٥A innate immune system and distinguishes between acute and chronic .inflammation** **Define acquired immunity and distinguish between active and -٦A .passive immunity** **Distinguishes between humoral and cellular immunity -٧A** **Distinguish between B cells and T cells, and the mechanism of their - .production, maturation, and differentiation** **Explains antigens and their types, and antibodies and their types -٩A**	