

نموذج وصف المقرر

1. Course name:	
English language	
2. Course code:	
MTOP1107	
3. Chapter year /	
First	
4. Date of preparation of this description	
2025/2/10	
5. Available attendance forms ..	
Presence	
6. Number of study hours (total) Total number of units	
30 Stude hours and 2 units	
7. Name of the course administrator (if more than one name is mentioned)	
Name :noraq talib	Email:noraqaltalib@gmail.com
8. Course objective	
- General objective: To identify the tenses and verbs used with each tense and to control the context of the sentence. - Specific objective: To learn general grammar, interrogative words and conversational formulatio	Objective of the study subject
9. Teaching and learning strategies	
Interactive Lecture – 1 Dialogue and discussion – 2 Exercises - 3	strategy

Learning by research -4					
10. Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Weeks	Week
Paper exams	Lectures\ interactive	Cardinal numbers/years/prices/ times (in words and figures)	(7ع) Communicating using cardinal numbers	2	1
Paper exams	Lectures\ interactive	Phonetics of alphabet letters, Punctuation	(7ع) Communicate by using correct pronunciation of letters.	2	2
Paper exams	Lectures\ interactive	Countries/Capitals , arrange words (makes full sentence)/ arrange letters (make full word).	(7ع) Communicate using the names of capitals and countries and using complete sentences	2	3
Paper exams	Lectures\ interactive	Simple present/1. Verb to be (is/am/are) (affirmative, negative and interrogative).	(7ع) Communicate Use the simple present tense	2	4
Paper exams	Lectures\ interactive Lectures\ interactive	Simple present/2. Verb to do (Do/Does) (affirmative, negative and interrogative).	(7ع) Communicate Use the simple present tense	2	5
Paper	Lectures\ interactive	Simple present/3. Verb to have	(7ع) Communicate	2	6

exams		(have/has) (affirmative, negative and interrogative).	Use the simple present tense		
Paper exams	Lectures\ interactive	Simple present/4. Ordinary verbs like (eat, go, play... etc.) (affirmative, negative and interrogative).	(7ع) Communicate Use the simple present tense	2	7
Paper exams	Lectures\ interactive	Tag questions and short answers (yes/no questions).	(7ع) Communicate with questions	2	8
Paper exams	Lectures\ interactive	Review (Simple present).	(7ع) Communicating using the simple present tense	2	10
Paper exams	Lectures\ interactive	Question words (what, where, when, who, why, how, whom, whose, which).	(7ع) Communicate with questions	2	11
Paper exams	Lectures\ interactive	Abbreviation (short form), adjectives (and their opposite).	(7ع) Communicate with questions	2	12
Paper exams	Lectures\ interactive	Plural nouns (regular and irregular).	(7ع) Communicate collectively	2	13
Paper exams	Lectures\ interactive	Pronunciation (-s at the end of a word).	(7ع) Communicate with correct pronunciation	2	14

Paper exams	Lectures\ interactive	Pronouns (all types).	7(Communicat With pronouns	2	15
11. Course evaluation					
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc. Interaction 5 degrees Monthly exam 25 marks. Final exam 70 points					
12. Learning and teaching resources ..					
..			Required textbooks (methodology if any		
Headway Beginner Student's Book with Online Practice, Fifth Edition			Required textbooks (methodology if any		
Headway Beginner Student's Book with Online Practice, Fourth Edition			Recommended supporting books and references (scientific journals, reports, etc(.		
			Electronic references, websites		

1. Course Name:	
Anatomy of the head and neck 1	
2. Course Code:	
MTOP1101	
3. Semester / Year:	
First semester – first year	
4. Description Preparation Date:	
27-02-2025	
5. Available Attendance Forms:	
100% class attendance	
6. Number of Credit Hours (Total) / Number of Units (Total):	
90 hours per semester – 4 credits	
7. Course administrator's name (mention all, if more than one name)	
Name: associated professor Bassel Adel Ismail Email: bassel.adel@alayen.edu.iq	
8. Course Objectives	
Course Objectives	Provide students with abundant information on the anatomy of the general human body and components and devices in general with a focus on the head, neck and the human eye. • Student empowerment: a. Understanding and analysing human body parts and devices b. Linking medical and health information other substances and decisions with the human body in general and the head and eye particular.
9. Teaching and Learning Strategies	
Strategy	The teaching of the subject is based on an interactive lecture between the professor and students and dialogue and discussion, allowing students to learn through deep exploration of the tissues of the eye and its roles

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	4 Theoretical+8 Practical	A1	Introduction of anatomy and types Introduction groups of terms anatomy	Interactive Lectures+ Scientific Experiments + Exercises	Conducting exams in lecture, periodic questions and homework
3	2 Theoretical+4 Practical	A1	Body cavities	Interactive Lectures Scientific Experiment Exercises	Conducting exams in lecture, periodic questions and homework
4	2 Theoretical+4 Practical	A1	Bones of the Skull	Interactive Lectures Scientific Experiment Exercises	Conducting exams in lecture, periodic questions and homework
5	2 Theoretical+4 Practical	A1	Blood vessels, nervous system, bones	Interactive Lectures Scientific Experiment Exercises	Conducting exams in lecture, periodic questions and homework
6+7	4 Theoretical+8 Practical	A1	Define the brain Arterial supply of the brain	Interactive Lectures Scientific Experiment Exercises	Conducting exams in lecture, periodic questions and homework
8	2 Theoretical+4 Practical	A1	Skin of the face	Interactive Lectures Scientific Experiment Exercises	Conducting exams in lecture,

					periodic questions and homework
9	2 Theoretical+8 Practical	A1	The bones (skeleton) and joints	Interactive Lectur Scientific Experiment Exercises	Conducting exams in l lecture, periodic questions and homework
10	2 Theoretical+4 Practical	A1	Anatomy of the face	Interactive Lectur Scientific Experiment Exercises	Conducting exams in l lecture, periodic questions and homework
11+12	2 Theoretical+8 Practical	A1	Neck (arteries, veins, Lymph, nerve) Neck (muscles of the neck)	Interactive Lectur Scientific Experiment Exercises	Conducting exams in l lecture, periodic questions and homework
13+14 +15	6 Theoretical+12 Practical	A1	Define the eye Structure of the eye Eye lid, conjonctiva	Interactive Lectur Scientific Experiment Exercises	Conducting exams in l lecture, periodic questions and homework

11. Course Evaluation

The student grades are distributed from 100 points to the full course and the student examines two university examinations.

The midterm exam is for 40 points and divided according to the following:

5 points of class participation and attendance

15 points Written Practical Examination

20 points Written Theoretical Examination

The Final is for 60 points and divided according to the following:

25 points for practical exam

35 points for theoretical exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Grant's Atlas of Anatomy, 12th Edition Agur, Anne M.R.; Dalley, Arthur F.
Recommended books and references (scientific journals, reports...)	Elsevier, Sciencedirect, Springer link, Pdfdrive
Electronic References, Websites	https://www.aao.org/ American academy of ophthalmology

Course Description Form

1. Course: Computer Applications	
Human Rights and Democracy	
2. Course Code	
MTOP 1106	
3. Semester / Year	
First Semester / First Stage	
4. Date of preparation of this description	
13/1/2025	
5. Available attendance forms	
Daily live attendance in the halls and laboratory	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Credit Hours / 2 Units	
7. Course administrator's name (if more than one name)	
Name: Prof. Asmahan Munir Zinab Email: asmahanzinab @gmail.com	
8. Course Objectives	
The course aims to provide students with	Objectives: 1. • General objective: To identify the concept, divisions and development of human rights and regional and international content. 2. • Specific objective: To acquaint students with the importance of education and its role in spreading the culture of human rights in a civilized society based on good governance, one of the most important components of which is the preservation and consolidation of rights and freedoms.
9. Teaching and Learning Strategies	

1-interactive lecture 2-Dialogue and discussion 3-Laboratory experiment 4-Brainstorming 5-E-learning	Strategy
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10. Course structure

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Weekly, semester and final theoretical tests	Interactive lectures	Human rights (concept and generalities)	A6 Appreciation of rights linguistically and terminologically	2 Theoretical	1
Weekly, semester and final theoretical tests	Interactive lectures	Human rights in ancient civilizations	A6 Appreciate the historical development and contributions of ancient human .civilizations	2 Theoretical	2
Weekly, semester and final theoretical tests	Interactive lectures	Human rights in the divine messages	A6 Appreciate the historical development and contributions of ancient human .civilizations	2 Theoretical	3
Weekly, semester and final theoretical tests	Interactive lectures	Human Rights in the Middle Ages and Modern Times	A6: Assessing and classifying the role of thinkers and philosophers in the development of human rights capabilities	2 Theoretical	4
Weekly, semester and final theoretical tests	Interactive lectures	Contemporary recognition of human rights	A6 Appreciating the role of thinkers and philosophers in the development of human rights	2 Theoretical	5

tests			capabilities		
Weekly, semester and final theoretical tests	Interactive lecture	Non-governmental organizations and their role in human rights fields.	A6: Assessing the role of non-governmental organizations in the development of rights and freedoms	2 Theoretical	6
Weekly, semester and final theoretical tests	Interactive lecture	Chapter Two: Human Rights in International Covenants	A6 Appreciating the great role of states and governments in human rights	2 Theoretical	7
Weekly, semester and final theoretical tests	Interactive lecture	Human rights in regional conventions	A6 Appreciating the role of regional countries and organizations in the emergence and development of human rights regionally	2 Theoretical	8
Weekly, semester and final theoretical tests	Interactive lecture	Human rights in national legislation	A6 Appreciating the role of regional countries and organizations in the emergence and development of human rights regionally	2 Theoretical	9
Weekly, semester and final theoretical tests	Interactive lecture	Forms and generations of human rights	A6 Appreciating the) effect of successive periods in rights	2 Theoretical	10

Weekly, semester and final theoretical tests	Interactive lectures	Human rights guarantees and protection	A6 Appreciation of human rights guarantees and protections	2 Theoretical	11
Weekly, semester and final theoretical tests	Interactive lectures	The role of national non-governmental organizations	(1 ^f) A6 Appreciating the role of non-governmental organizations in the growing role of rights development	2 Theoretical	12
Weekly, semester and final theoretical tests	Interactive lectures	Human rights guarantees and protection at the regional and international levels	A6 Appreciating the contribution of regions and their protection of rights and freedoms	2 Theoretical	13
Weekly, semester and final theoretical tests	Interactive lectures	The role of the United Nations in human rights	A6 Appreciating the role of the largest and most important international organization in the world		14
Weekly, semester and final theoretical tests	Interactive lectures	The role of regional organizations in human rights	A6 Appreciation of the contributions and additions provided by governmental and non-governmental (regional) organizations	2 Theoretical	15

11. Course Evaluation

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

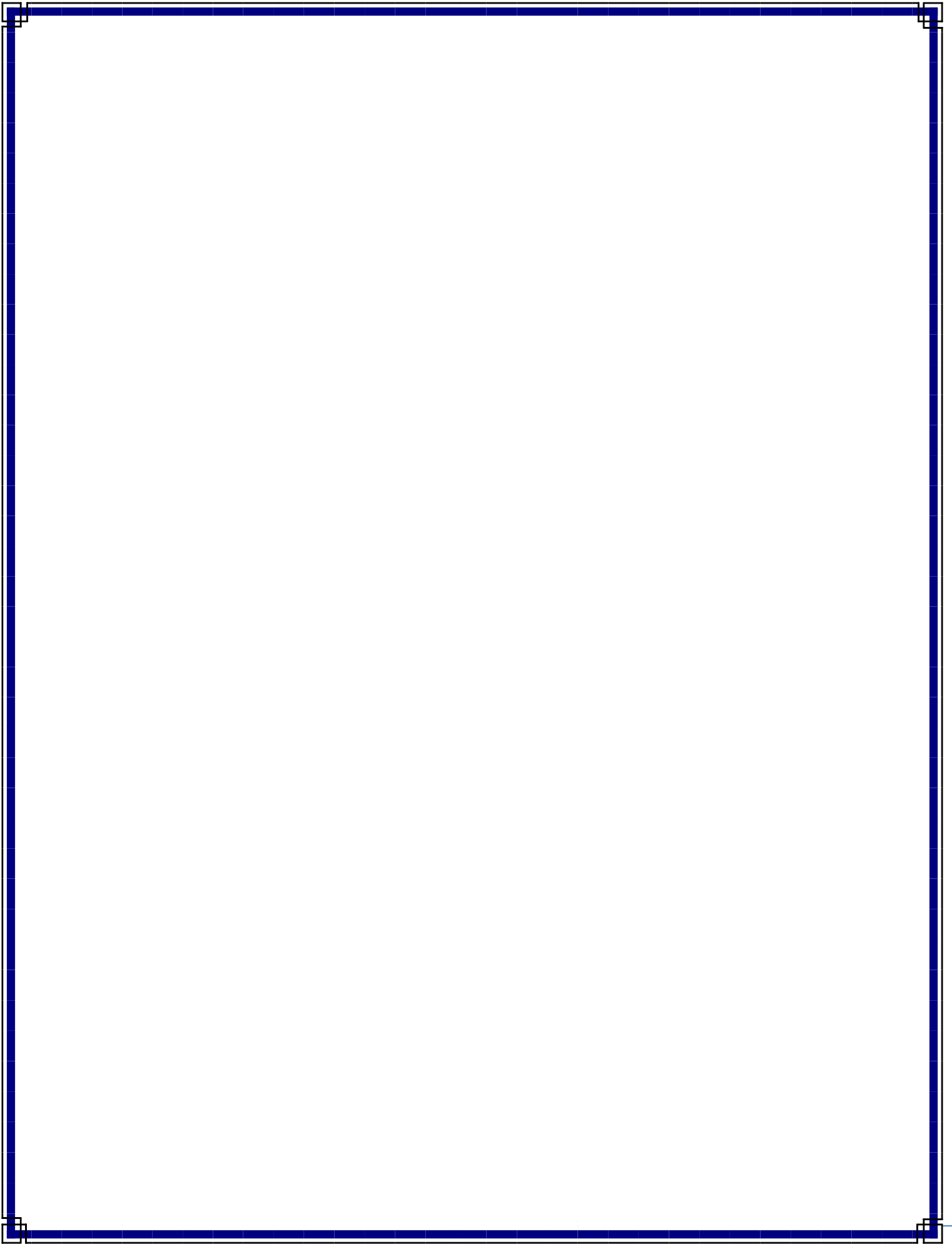
1. Final Exam 60 Marks
2. Monthly Exam 30 Marks

3. Interaction 5 Marks

4. Quizzes 5 Marks

12. Learning and teaching resources

حقوق الانسان ، تطورها – مضامينها- حمايتها، أ د . رياض عزيز هادي، 2019.	Required textbooks methodology, if any
ق الانسان والديمقراطية ، بدر خان السندي ،كلية التربية ، ابن رشد ،جامعة بغداد، 2012 .	Main references (sources)
	الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية , التقارير...)
	المراجع الالكترونية, مواقع الانترنت



Course Description Form

1. Course Name:	
Medical Physics	
2. Course Code:	
MTOP1103	
3. Semester / Year:	
Semester/1	
4. Description Preparation Date:	
2025	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90/6	
7. Course administrator's name (mention all, if more than one name)	
Name: SALIM OUDAH MEZAN Email: salim.oudah@alayen.edu.iq	
8. Course Objectives	
Course Objectives	General objective: At the end of the semester the student will be able to understand optical phenomena in physics. Specific objectives: Identify mirrors, their types, solve problems related to them, and the telescope as one of the applications. Identify prisms and lenses, their types and defects, and solve problems related to them. Identify how vision works, refractive errors that affect the eye and correct them. Identify light, the electromagnetic spectrum, formation of the rainbow. Identify optical

	phenomena such as reflection, refraction, polarization, and diffraction. Identify the eye, its parts, and the devices used to examine it. Identify optical novelty. Laser, its types and applications.
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9. Teaching and Learning Strategies

Strategy	1. Interactive Lecture 2. Laboratory Experiments 3. Research-Based Learning
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6	(A3) (B3)	Reflection: definition; Reflection at plan surfaces; regular Reflection	Interactive lectures + experiments	Paper exams Practical and oral + reports
2	6	(A3) (B3)	Ir regular reflection image formation by plane mirror; direction of image seen by the eye. Refractive index	Interactive lectures + experiments Practical + exercises	Paper exams
3	6	(A3) (B3)	Light and vision: introduction; light waves; light velocity, light rays and beams; electromagnetic spectrum.	Interactive lectures + experiments Practical + exercises Practical + exercises	Paper exams Practical and oral + reports
4	6	(A3) (B3)	Prism (dispersion) Diffraction: definition; concept; grating; mechanism; constructive. And destructive.	Interactive lectures + experiments	Practical and oral + reports
5	6	(A3) (B3)	Eye: definition: parts: focusing element: photoreceptors cells; accommodation	Interactive lectures + experiments Practical + exercises	Paper exams
6	6	(A3) (B3)	Polarization: definition; types.	Practical + exercises	Paper exams

					Practical and oral + reports
7	6	(A3) (B3)	Dispersion and the visible spectrum	Interactive lectures + experiments	Practical and oral + reports
8	6	(A3) (B3)	Reflection at curved mirror, spherical mirror, type of spherical mirror, rays diagram for a concave and convex Magnification, mirror equation, examples	Interactive lectures + experiments Practical + exercises	Paper exams
9	6	(A3) (B3)	Refraction: definition; Refraction index total internal Reflection, critical angel	Practical + exercises	Paper exams Practical and oral + reports
10	6	(A3) (B3)	Mirror (definition; focal length, type)	Interactive lectures + experiments	Practical and oral + reports
11	6	(A3) (B3)	EX.		Paper exams
12	6	(A3) (B3)	Examples and tutorials. Notation: aberration. (Define, type)	Practical + exercises	Paper exams Practical and oral + reports
13	6	(A3) (B3)	Lenses: definition; focal length; lens power, types focal point. Thin lenses formula.	Interactive lectures + experiments	Practical and oral + reports
14	6	(A3) (B3)	Reflection: definition; Reflection at plan surfaces; regular Reflection	Interactive lectures + experiments Practical + exercises	Paper exams
15	6	(A3) (B3)	Ir regular reflection image formation by plane mirror; direction of image seen by the eye. Refractive index	Practical + exercises	Paper exams Practical and oral + reports

11.

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

1-Monthly exam: 25

2-Interaction: 2

3-Reports: 3

3-Monthly: 70

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Mahajan, V. N.
(1991). *Aberration theory*

	<i>made simple</i> (Vol. 6). SPIE Press.
Main references (sources)	Mahajan, V. N. (1998). <i>Optical imaging and aberrations: Ray geometrical optics</i>. SPIE press.
Recommended books and references (scientific journals, reports...)	Mahajan, V. N. (1991). <i>Aberration theory made simple</i> (Vol. 6). SPIE Press.
Electronic References, Websites	Mahajan, V. N. (1998). <i>Optical imaging and aberrations: Ray geometrical optics</i>. SPIE press.

Course Description Form

1. Course: Computer Applications					
Biology1					
2. Course Code					
MTOP1104					
3. Semester / Year					
First Semester / First Stage					
4. Date of preparation of this description					
2025					
5. Available attendance forms					
Daily live attendance in the halls and laboratory					
6. Number of Credit Hours (Total) / Number of Units (Total)					
4 Credit Hours / 4 Units					
7. Course administrator's name (if more than one name)					
Name: Prof. Asmahan Munir Zinab			Email: asmahanzinab @gmail.com		
8. Course Objectives					
The course aims to provide students with			Objectives: 1. General goal: identify living cells. 2. Specific objective: identify the type of cells and tissues as well as the histological structure of the eye.		
9. Teaching and Learning Strategies					
1-interactive lecture 2-Dialogue and discussion 3-Laboratory experiment 4-Brainstorming 5-E-learning					Strategy
10. Course structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Weekly,	Theoretical	Definition of Biology,	(11)	2	1

semester and final theoretical tests	using computer and laboratory experiments	Biological Kingdom	Definition of Biology, Biological Kingdom	Theoretical and 2 Practical	
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	Prokaryotes and eukaryotes.	(1 ^h) Prokaryotes and eukaryotes	2 Theoretical and 2 Practical	2
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	The cell : Introduction, structure and function to the organelle.	(1 ^h) Introduction, structure and function to the organelle of the cell	2 Theoretical and 2 Practical	3
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	The cell : Introduction, structure and function to the organelles (Mitochondria, Free ribosomes , Rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi apparatus, Lysosomes (primary and secondary lysosomes), Microtubules , cilia, flagella and centrioles.	(1 ^h) Introduction (Mitochondria, Free ribosomes , Rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi apparatus, Lysosomes (primary and secondary lysosomes), Microtubules , cilia, flagella and centrioles	2 Theoretical and 2 Practical	4
Weekly, semester and final theoretical	Theoretical computer laboratory experiments	The tissue (types and properties).	(1 ^h) Define the types and properties of tissue	2 Theoretical and 2 Practical	5

tests					
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	us Classification tissue.	(1 ¹) Define and Classify Biological Etissue.	2 Theoretic al and 2 Practical	6
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	us Nucleic acid, DNA structure, properties.	(1 ¹) Nucleic acid, DNA structure, properties	2 Theoretic al and 2 Practical	7
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	us RNA structure, properties.	(1 ¹) Define RNA Structure, properties	2 Theoretic al and 2 Practical	8
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	us Transportation of biological wastes International Transport Regulations The Basic Triple Packaging System	(1 ¹) transportation of biological wastes International Transport Regulations The Basic Triple Packaging System	2 Theoretic al and 2 Practical	9
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	us Overview of biological safety and security equipment	(1 ¹) Overview of biological safety and security equipment	2 Theoretic al and 2 Practical	10
Weekly, semester	Theoretical using	Introduction to Biosafety and	(1 ¹) Introduction to	2 Theoretic al and 2 Practical	11

and final theoretical tests	computer and laboratory experiments	Security: Key components of Biorisk Management Components of safety in all laboratories Universal safety precautions	Biosafety and Security: Key components of Biorisk Management Components of safety in all laboratories Universal safety precautions		
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	Biosafety rules simulation 3D	(1 ^h) Define BioDafety rules simulation 3D	2 Theoretical and 2 Practical	12
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	Biosafety training	(1 ^h) Define Biosafety training	4 Theoretical and 4 Practical	14-13
Weekly, semester and final theoretical tests	Theoretical computer laboratory experiments	Review	(1 ^h) Review	2 Theoretical and 2 Practical	15

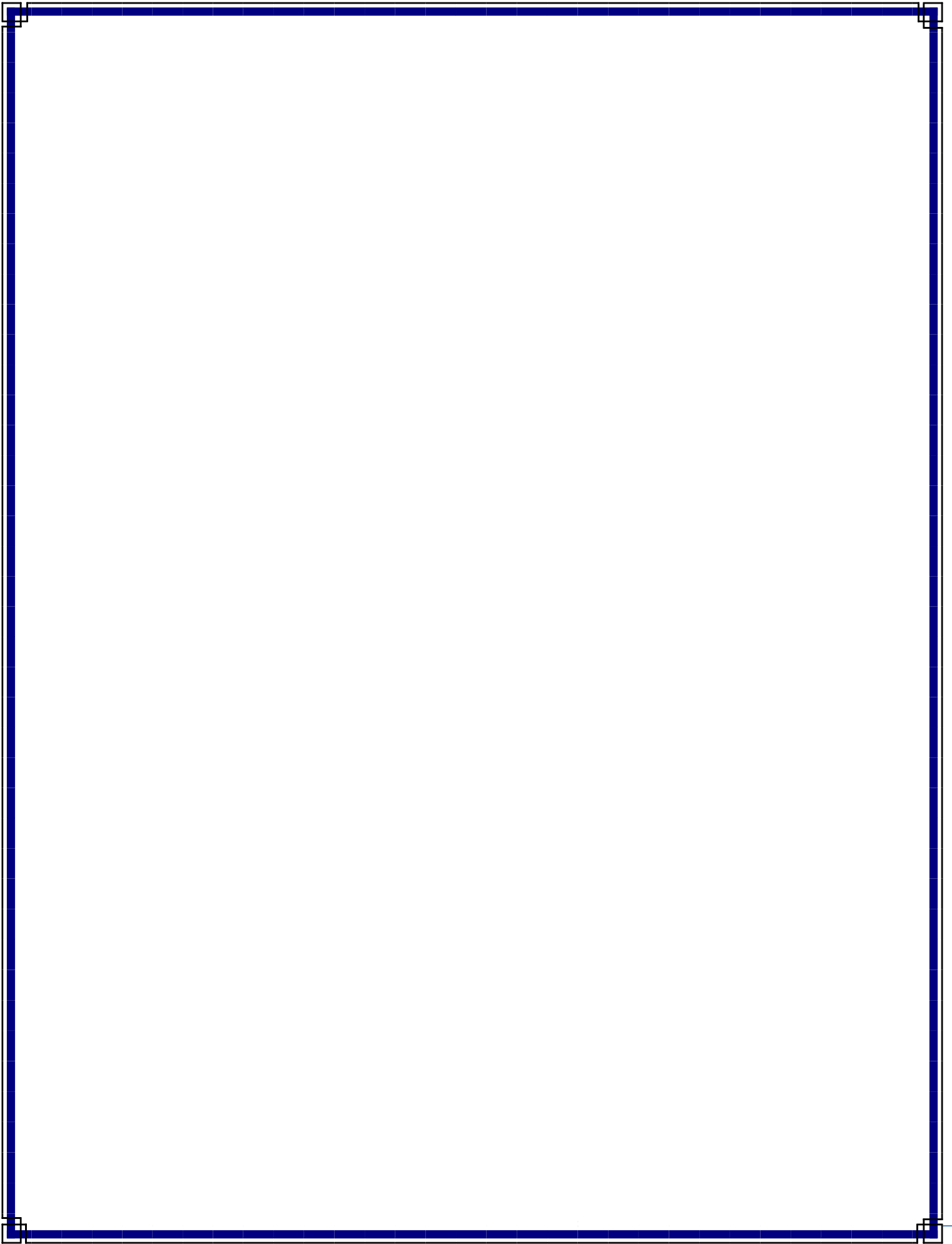
11. Course Evaluation

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

1. Final Exam 60 Marks
2. Monthly Exam 30 Marks
3. Interaction 5 Marks
4. Quizzes 5 Marks

12. Learning and teaching resources

	Required textbooks methodology, if any
1. Elizabeth o Grady, Jason Cashmore, Marsha, Carol Wismer(2018). <i>Principles of Biology- An introduction to Biological Concepts</i> . second Edition. 2. Peter Raven (2016) <i>Biology</i> . Elven Edition. 3. VJ. Bekish, Yu.T. Nikulin (2006) <i>Practical Book on Medical Biology</i> . 4-Glenco-Biology-Dynamic of Life (Megraw 2008).	Main references (sources)
	الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية , التقارير...)
	المراجع الالكترونية, مواقع الانترنت



Course Description Form

1. Course Name:					
Chemistry principles					
2. Course Code:					
MTOP1102					
3. Semester / Year:					
1/2024-2025					
4. Description Preparation Date:					
31-1-2025					
5. Available Attendance Forms:					
Physical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 theoretical hours + 2 practical hours = 4 hours * 15 weeks = 60 hours/4 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Maher Hassan Khanafer Email: maherkhanafer400@gmail.com					
8. Course Objectives					
Course Objectives					
9. Teaching and Learning Strategies					
Strategy		Interactive Lecture Laboratory Experiments Brainstorming			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	A3	Chemistry of vision	Interactive + Scientific Experiments + Exercises	Tests and practice

2	2 theoretical + 2 practical	A4	Chemical reaction in eye	tures Interactive + Scientific Experiments + Exercises	Tests and practice
3	2 theoretical + 2 practical	A1	Redox reaction (Oxidation-Reduction), Oxidation stress in the eye	tures Interactive + Scientific Experiments + Exercises	Tests and practice
4	2 theoretical + 2 practical	A4	Tear film, Oxygen in the eye, Water in the eye	tures Interactive + Scientific Experiments + Exercises	Tests and practice
5	2 theoretical + 2 practical	A2	Carbon dioxide and nitric oxide, in the eye	tures Interactive + Scientific Experiments + Exercises	Tests and practice
6	2 theoretical + 2 practical	A4	Organic chemistry: alkane, alkene, alkyne	tures Interactive + Scientific Experiments + Exercises	Tests and practice
7	2 theoretical + 2 practical	A1	problems and questions	tures Interactive + Scientific Experiments + Exercises	Tests and practice
8	2 theoretical + 2 practical	A3	Introduction to Biosafety and Security • Key components of Biorisk Management • Components of safe in all laboratories • Universal safety precautions	tures Interactive + Scientific Experiments + Exercises	Tests and practice
9	2 theoretical + 2 practical	C4	Biosafety barriers in laboratories • Personal protective equipment (PPE) • Facility Design	tures Interactive + Scientific Experiments + Exercises	Tests and practice
10	2 theoretical + 2 practical	A1	Biosafety level • Risk Assessment Strategy • Hazard groups, biosafety levels,	tures Interactive + Scientific Experiments + Exercises	Tests and practice

			practices and equipment • Standard practices required in biology laboratories		
11	2 theoretical + 2 practical	B5	Biological Agents • Routs of infection • Basis for control Measures • Hazard group classification system • A Biosafety cabine (BSC)	tures Interactive + Scientific Experiments + Exercises	Tests and practice
12	2 theoretical + 2 practical	A1	Biorisk and biohazards • Control of substances hazardous to health • Assessing risk for working with human blood and tissues hazards • Control measures for working with human blood and tissue • Containment level	tures Interactive + Scientific Experiments + Exercises	Tests and practice
13	2 theoretical + 2 practical	B5	Biorisk management system • Assess the capability of the laboratory staff to control hazards • Relation of risk groups to biosafety levels, practices of and equipment	tures Interactive + Scientific Experiments + Exercises	Tests and practice
14	2 theoretical + 2 practical	C2	• Mitigation Control Measures • Sustainability of the bio-risk management system • Strengthening biorisk management	tures Interactive + Scientific Experiments + Exercises	Tests and practice

15	2 theoretical + 2 practical	A1	Types of biological wastes - Categories of biological wastes - Decontamination of biological wastes	Lectures Interactive + Scientific Experiments + Exercises	Tests and practice
11. Course Evaluation					
The student grades are distributed from 100 points to the full course and the student examines two university examinations. The midterm exam is for 40 points and divided according to the following: 5 points of class participation and attendance 15 points Written Practical Examination 20 points Linear Theoretical Fruits The Final is for for 60 points and divided according to the following: 25 points for practical exam 35 points for theoretical exam					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Oxtoby, David W., H. Pat Gillis, and Laurie J. Butler. Principles of modern chemistry. Cengage AU, 2016.		
Main references (sources)			Stoker, Howard Stephen, Owen C. Gayley, and Ruth Sherman. Introduction to chemical principles. Upper Saddle River, NJ: Pearson Prentice Hall, 2005. - Agarwal, G. R., and O. P. Agarwal. Text book of Biochemistry. Krishna Prakashan Media, 2007.		
Recommended books and references (scientific journals, reports...)			Elsevier, Sciencedirect, springer		
Electronic References, Websites			- PubMed (https://pubmed.ncbi.nlm.nih.gov/) - ScienceDirect (https://www.sciencedirect.com/) - Google Scholar (https://scholar.google.com/) - Khan Academy (https://www.khanacademy.org/science)		

	• Coursera (https://www.coursera.org/) • Site of the American National Library of Medicine (https://www.nlm.nih.gov/) ResearchGate (https://www.researchgate.net/)
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