

**Ministry of Higher Education and Scientific Research**

**Scientific Supervision and Scientific Evaluation Apparatus**

**Directorate of Quality Assurance and Academic Accreditation**

**Accreditation Department**

**Academic Program and Course Description Guide Academic Program and Course Description Guide**

**Academic Program and Course Description Guide**

**2024**

**Introduction:**

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

**Concepts and terminology:**

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

**Course Description**: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students’ teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

**Academic Program Description Form**

**University Name: ................**

**Faculty/Institute: ..................**

**Scientific Department: ...............**

**Academic or Professional Program Name: Medical terminology and anatomy ............**

**Final Certificate Name:** …………………..

**Academic System:** …………

**Description Preparation Date:**

**File Completion Date: \ \2024**

**Signature:**

**Head of Department Name:**

**Date:**

**Signature:**

**Scientific Associate Name:**

**Date:**

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Date:**

**Signature:**

**Approval of the Dean**

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| 1. **Program Vision** |
| **The medical terminology and anatomy** program must be comprehensive and integrated to develop students’ skills in knowing all medical terminology related to their professional career. Through the diversity of educational methods and the enhancement of basic skills |

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| 1. **Program Mission** |
| Providing a supportive and inspiring educational environment to develop students’ medical terminology and anatomy skills. We strive to provide a fun and engaging learning experience that encourages innovation and critical thinking. Through a variety of educational methods and innovative technology, we seek to enable students to understand and communicate with the community. |

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| 1. **Program Objectives** |
| They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable |

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| 1. **Program Accreditation** |
| Does the program have program accreditation? And from which agency? |

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| 1. **Other external influences** |
| Is there a sponsor for the program? |

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| --- | --- | --- | --- | --- |
| 1. **Program Structure** | | | | |
| **Program Structure** | **Number of Courses** | **Credit hours** | **Percentage** | **Reviews\*** |
| **Institution Requirements** | **2** | **2 Theory and 3 Practical** | **100%** |  |
| **College Requirements** |  |  |  |  |
| **Department Requirements** |  |  |  |  |
| **Summer Training** | **Found** |  |  |  |
| **Other** |  |  |  |  |

\* This can include notes whether the course is basic or optional.

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| --- | --- | --- | --- | --- |
| 1. **Program Description** | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Credit Hours** | |
| **Year** |  |  | **Theoretical** | **practical** |
|  |  |  |  |  |

|  |  |
| --- | --- |
| 1. **Expected learning outcomes of the program** | |
| **Knowledge** | |
| Learning Outcomes 1 | Learning Outcomes Statement 1 |
| **Skills** | |
| Learning Outcomes 2 | Learning Outcomes Statement 2 |
| Learning Outcomes 3 | Learning Outcomes Statement 3 |
| **Ethics** | |
| Learning Outcomes 4 | Learning Outcomes Statement 4 |
| Learning Outcomes 5 | Learning Outcomes Statement 5 |

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| 1. **Teaching and Learning Strategies** |

skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

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| 1. **Evaluation methods** |
| Implemented at all stages of the program in general. |

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| 1. **Faculty** | | | | | | |
| **Faculty Members** | | | | | | |
| **Academic Rank** | **Specialization** | | **Special Requirements/Skills (if applicable)** | | **Number of the teaching staff** | |
| **General** | **Special** |  | | **Staff** | **Lecturer** |
|  | Veterinarian | Embryologists |  |  | One | One |

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| **Professional Development** |
| **Mentoring new faculty members** |
| Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level. |
| **Professional development of faculty members** |
| Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc. |

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| 1. **Acceptance Criterion** |
| **(Setting regulations related to enrollment in the college or institute, whether central admission or others)** |

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| 1. **The most important sources of information about the program** |
| State briefly the sources of information about the program. |

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| 1. Program Development Plan |
| By Practice and theory lecturer |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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| **year** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Medical terminology + Anatomy | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: Semester | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date: 20\3\2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) 7 | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Zahraa Abdulsalam Hussein  Email: zahraa.abdulsalam@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **To learn new medical terminology.....** * **To learn anatomy of human body.....** * **To learn anatomical features.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  | Subject  Lab.  Introduction to anatomy and human body, level of organization ,anatomical position ,body regions and cavities ,body planes and sections ,directional terms .  1  Tissues and membranes  2  Upper limb ,lower limb ,thorax  3  Abdomen ,pelvis ,head and neck  4  Musculoskeletal system: Bones ,joints and muscles  5  Digestive system: Digestive tract ,Accessories and glands  6  Cardiovascular system: heart , blood vessels.  7  lymphatic system.  8  Respiratory system  9  Nervous system: central nervous system ,peripheral nervous system  10  Endocrine system .  11  Special senses  12  Urinary system  13  Reproductive system  14  Gynecology, pregnancy , childbirth , Embryology, Childhood, growth and developme | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | Nitter anatomy text book | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | | All the scientific site on internet | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| 1. Course Name: English Language | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: first year first semester | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
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| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total 45) / Number of Units (Total 15) | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name:  Email: | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **Language Proficiency:**   + Develop proficiency in listening, speaking, reading, and writing skills in English.   + Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. * **Vocabulary and Grammar:**   + Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts.   + Apply grammatical structures accurately and effectively in spoken and written communication. * **Reading Comprehension:**   + Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles.   + Identify main ideas, supporting details, and implied meanings in English texts. * **.....** * **.....** * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | 1. **Communicative Language Teaching (CLT):**    * Emphasizes real-life communication and interaction in English through activities such as role-plays, discussions, and problem-solving tasks.    * Focuses on meaningful language use in authentic contexts to develop speaking and listening skills. 2. **Task-Based Learning:**    * Incorporates tasks and projects that require students to use English to accomplish specific goals or solve real-world problems.    * Promotes language production and integration of language skills through hands-on, experiential learning activities. 3. **Differentiated Instruction:**    * Tailors instruction to meet the diverse needs, learning styles, and proficiency levels of students. | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **year** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name:Histopathology | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
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| 1. Semester / Year:year | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date:15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: 15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / 2 theory and 3practic Number of Units (Total) 7 | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Ali Abdul razak Alsaeegh  Email: Ali.alsaeegh@ Alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **\*to learn change disease.**  **\*TO learn how to diagnosis the cell disease**  **\*to learn how to make the slide disease .....**   * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 30 | 5 | | Scrin. laboratory | 1-cell  2-acute inflammation  3-chronic inflammation  4-repair,healing  , .regenration  5-degeneration  6-Atrophy, necrosis  7-Gangren  8Diagnosis cancer  9-change in cytoplasm in malignant cancer  10-change in cell in malignancy  11-Numenclatuer of tumor  12-classification of tumor  13-fixation  14-special stain  15-tissuue process  16-Facter influent rat of impregnation  17-Microtom and paraffin section  18-staning tissue  19-specail stain  20-bon section  21-Demonstration of cytoplasm granule organells and secial tissue  22-neuropathological tech. niques  23-Enzyme histochemistry and application  24-immunohistochemistery and application  25-resin embedded media  26-Electron microscop  27-Elictron micro.use  28Histometry and diagnosis use  29-Immunofluresence tech.  30-Museum and oth | | |  |  |
| 1. Course Evaluation=10 for day examin, 15 first course,15 second course, 40 final examin.20 practic. | | | | | | | | |
| 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | Basic pathology text book (roben) | | | |
| Main references (sources) | | | | | Researched paper, | | | |
| Recommended books and references (scientific journals, reports...) | | | | | Biochem.cell.Arch  Hiv Nursing  Alkafeel Cnferance | | | |
| Electronic References, Websites | | | | | All the scientific site in net. | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | | |
|  | | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **2024** |  | **Immunology** | | **Basic** |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Practical Immunology | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: third year | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: A. Lecturer Mohanad Kadhim Ali  Email: | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **Language Proficiency:**   + Develop proficiency in listening, speaking, reading, and writing skills in English.   + Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. * **Vocabulary and Grammar:**   + Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts.   + Apply grammatical structures accurately and effectively in spoken and written communication. * **Reading Comprehension:**   + Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles.   + Identify main ideas, supporting details, and implied meanings in English texts. * **.....** * **.....** * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Lectures using the smart board  Scientific discussions  Practical experiment | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **year** |  |  |  | **X** | **X** |  |  | **X** | **X** | **X** |  | **X** | **X** |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: General chemistry | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year:year 2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date:15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: 15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / 2 theory and 4practic Number of Units (Total) 6 | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Abdulhussein jaafer shamsah  Email: abdulhussien.shamsa@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **• Be able to understand the basic principles of general and life chemistry and its applications**  **• Be able to link the traumatic pain to abnormal changes in other components of the blood and body**  **• Have the ability to collect and treat biological samples** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 30 | 80 | |  | - Scope of biochemistry in health and disease, cell and cell constituents.  Some aspects of physical chemistry, Gas laws, Boyle’s law, Graham’s Law of diffusion, Dalton’s Law of partial pressure, General gas equation, the international system of units**.**  Radio activity and radioactive isotopes  Solutions and methods of expressing concentrations colloidal solution.  The PH concept, Acid-base balance, chemical equilibrium, common ion effect.  Buffer and buffer systems of physiological importance in living systems**.**  Blood, blood constituents, body fluids, regulation of blood Ph and body fluids.  Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids.  Carbohydrates classification reactions, main carbohydrates in human body  Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood  Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve  Lipids, classification, derived lipids, compound, lipids  Lipid metabolism, lipid abnormalities  Proteins, classification, functions, peptide bonds, amino acids, chemical reactions.  Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology | | |  |  |
| 1. Course Evaluation=10 for day examin, 25 first course, 25 second course, 40 final examin. | | | | | | | | |
| 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | **General Chemistry: Principles, Patterns, and Applications**  Context4Book | | | |
| Main references (sources) | | | | | General Organic chemistry NEET Chemistry | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Medical Ethics | | | | | | | | |
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| 1. Course Code: | | | | | | | | |
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| 1. Semester / Year: first course | | | | | | | | |
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| 1. Description Preparation Date: | | | | | | | | |
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| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total 30) / Number of Units (Total 4) | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Ghadeer Mohammed Hussain  Email: ghadeer.mohammed@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | - Emotional and value goals  1- Listening  2-Answering the questions asked  3- Adherence to lecture times  4- Participation and interaction during the lecture | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Advising and directing students on the necessity of understanding lectures, the importance of focusing on the content of the lessons, making the most of the information provided, and giving the aspect of scientific and academic culture “theory” great importance equal to the practical aspect. | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  | |  |  |  | | |  |  |
| 1. Course Evaluation | | | | | | | | |
| Score distribution out of 100 according to traditional exams and surprise questions | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | |  | | |
| Main references (sources) | | | | | | Professional behavior of doctors by Al-Hakim Raji Al-Tikriti | | |
| Recommended books and references (scientific journals, reports...) | | | | | |  | | |
| Electronic References, Websites | | | | | |  | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| 1. Course Name: | | | | | | | | |
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| 1. Course Code: | | | | | | | | |
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| 1. Semester / Year: | | | | | | | | |
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| 1. Description Preparation Date: | | | | | | | | |
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| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name:  Email: | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **.....** * **.....** * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: | | | | | | | | |
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| 1. Course Code: | | | | | | | | |
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| 1. Semester / Year: | | | | | | | | |
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| 1. Description Preparation Date: | | | | | | | | |
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| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name:  Email: | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **.....** * **.....** * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: General Chemistry | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: first year first semester | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total 48) / Number of Units (Total 8) | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Ali Atiyha Abid  Email: | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | Emotional and value goals  Participation in scientific activities  Participate in scientific discussions | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Theoretical lectures using the smart board  Practical Training  Scientific discussions | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | | 1. Fundamentals of Analytical Chemistry, ninth edition and Douglas A. Skoog, Donald M. West.  2. Holt Chemistry, R. Thomas Myers, Keith B. Oldham and Salvatore Tocci | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **Fourth** |  | **pathohistology** | **Basic** |  |  |  | **\*** |  |  | **\*** |  |  |  | **\*** |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Histology | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: | | | | | | | | |
| 2023/2024 | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 3/2023 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
| In presence | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| 2 T .2 P . 5C | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Hameed Abdulhussein mjbel  Email: hameed.altememi@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **• Introducing the student to the types of diseases and their basic symptoms**  **• Classifying these diseases according to their seriousness, studying the mechanism of their spread and prevention, and the reasons that lead to their appearance and development.**  **• Its effects on the organs of the human body, as well as the method of examining and diagnosing these diseases.** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | 1-lecture  2-Brainstorming  3-Strategy for providing examples. | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15 | 2 | | Introducing the student to the types of diseases and their basic symptoms | Lung (atelectasias, acute lung injury)  Lung (chronic bronchitis pulmonary embolism)  Lung tumors  Kidney (glomercular disease)  Kidney (nephrotic syndrome, IgA nephropathy (Berger disease)  Kidney tumors  Cancer of the oral cavity and tongue  Esophagus (lacivation, varices, esophageal carcinoma)  Stomach (gastritis, ulcer, carcinoma)  Large intestines (hemorrhoids, malabsorption syndrome)  Crohn disease  Large intestines tumors  Liver (hepatic infection, failure, cirrhosis)  Hepatic tumors  Gall bladder (cholecystitis, tumors)  Pancreas (pancreatitis)  Pancreatic neoplasma  Male genital system (testicular atrophy, lesions, neoplasma)  Male genital system (prostatis, tumors)  Female genital system (cervicitis, tumor of the cervix)  Uterus (endometritis, endometriosis , tumor of the uterus)  Breast (fibrocystic changes, tumors of the breast)  Endocrine system (hyperpituitarism and pituitary adenoma)  Thyroid (thyroiditis, thyroid neoplasma)  Bone tumors  Skin (acute eczematous dermatitis, psoriasis)  Skin tumors  Nervous system (brain tumor)  Nervous system (diseases of the peripheral nervous system) | | | Oral and written | lecture |
| 1. Course Evaluation | | | | | | | | |
| 25 T . 15 P . Final 60 | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | | Robbins,Basic,Pathology. | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **Second** |  | **Histology** | **Basic** |  |  |  | **\*** |  |  | **\*** |  |  |  | **\*** |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Histology | | | | | | | | |
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| 1. Course Code: | | | | | | | | |
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| 1. Semester / Year: | | | | | | | | |
| 2023/2024 | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 3/2023 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
| In presence | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| 2 T .2 P . 3C | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Hameed Abdulhussein mjbel  Email: hameed.altememi@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **• Introducing the student to the basic types of cells.**  **• Classification of these cells according to the study of their shape that makes up those tissues and the basic function of these cells that make up the various tissues and organs of the human body.**  **• Examining thin slices of tissue under an optical microscope** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | 1-lecture  2-Brainstorming  3-Strategy for providing examples. | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15 | 2 | | Understanding and assimilating the characteristics of normal cells and tissues.  Analysis of the functions of tissues and constituent cells.  Enable students to compare different cells.  Enable the student to describe tissues and their cellular components | Introduction and overview of methods used in histology, Classification of Histology, Tissue preparation  Overview of Cell structure & types  Tissues: Concept and classifications of primary tissues  Epithelial tissue: Simple Ep. T. , Compound Ep. T.  The glandular Tissues (The Glands)  Connective and Supportive Tissue: Embryonic and adult C.T.    Connective Tissue proper (General C.T.)  Cartilage, Histogenesis, Growth and repair of cartilage  Bone & Histogenesis of Bone  The Blood  The haemopoietic organ (bone marrow), Formation of blood cells.  Muscular tissue  Nervous tissue: Overview of nervous system (CNS & PNS)  Nervous system: the Nerve cells (neurons) and their classification  Supporting cells of nervous system  الفصل الثاني  Circulatory system  Lymphoid system- Lymphatic vessels- Lymph  Lymphoid organs  Respiratory system  Digestive system/ Part one- Oral cavity  Digestive system/ Part two- Gastrointestinal tracts  Digestive system/ Part three- Accessory Glands  8-9 Urinary system  Endocrine system  Male reproductive system  Female reproductive system  Sense organ  The integumentary system- Skin | | | Oral and written test | lecture |
| 1. Course Evaluation | | | | | | | | |
| 25 T . 15 P . Final 60 | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | | Junqueiras Basic Histology | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **2023-2024** |  | **Clinical Immunology** | **Basic** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: | | | | | | | | |
| Clinical Immunlogy | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: | | | | | | | | |
| 2023-2024 | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 16/3/2024 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
| Theoretical and practical | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| 6 hours weakly (180 hours yearly) | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: L. Dr. Mohammed Jaafar Mohammed Hassan  Email: mohammed.alanssari@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | **Overall goal:**   * **• Introducing the student to clinical immunology** * **• Its uses** * **• Its modern divisions** * **• And some common diseases** * **• Its diagnostic methods** * **• Treatment mechanisms**   **Own goal:**   * **• That the student be able to define clinical immunology** * **• To determine the immune mechanism responsible for the pathogenesis of common immune diseases.** * **• To distinguish the different diagnostic methods as well as the important differential tests for each disease** | | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Knowledge and understanding  The student learns about advanced technologies and everything related to them  Subject-specific skills  1- The student conducts tests and analyzes in the laboratory  Teaching and learning methods  1- Presentation  2-Blackboard  3- Educational videos on the university’s website  4- Smart screen  5- Devices for some analyses  6- Summer training in hospitals  Evaluation methods  1- Daily paper exams  2-Oral exams  3-Questionnaires  4-Discussions  thinking skills  1- Involving the student in a practical way in explaining the material  2-Use brainstorming  3-Using the method of discussion and dialogue between students | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | | | **Unit or subject name** | **Learning method** | **Evaluation method** | |
| 1 | 2 Theory +4 Practice | | Rheumatic Diseases  Rheumatoid Arthritis | | |  |  |  | |
| 2 | 2 Theory +4 Practice | | Systemic Lupus Erythmatosus | | |  |  |  | |
| 3 | 2 Theory +4 Practice | | Ankylosing Spondylitis | | |  |  |  | |
| 4 | 2 Theory +4 Practice | | Sjogren's Syndrome | | |  |  |  | |
| 5 | 2 Theory +4 Practice | | Behcet's Disease  Psoriatic Arthritis | | |  |  |  | |
| 6 | 2 Theory +4 Practice | | Gastrointestinal and liver disease  Gluten sensitive entero-pathy  Pernicious Anemia  Diabetes mellitus | | |  |  |  | |
| 7 | 2 Theory +4 Practice | | Ulcerative Colitis  Crohn's Disease  Helicobacter pylori  Mucosa-associated lymphoid tissue lymphoma and Helicobacter pylori-associated diseases | | |  |  |  | |
| 8 | 2 Theory +4 Practice | | Autoimmune Hepatitis and Autoimmune liver diseases | | |  |  |  | |
| 9 | 2 Theory +4 Practice | | Primary Biliary Cirrhosis  Primary Sclerosing Cholangitis | | |  |  |  | |
| 10 | 2 Theory +4 Practice | | Renal disease  The Immunological Mechanisms that lead to renal disease | | |  |  |  | |
| 11 | 2 Theory +4 Practice | | * + - 1. Circulating immune Complex       2. In situ immune complex Formation   1. الأضداد الذاتية المضادة لهيولي العدلة (ANCA) والامراض المرتبطه بها :   Antineutrophil Cytoplasmic Autoantibodies and associated diseases | | |  |  |  | |
| 12 | 2 Theory +4 Practice | | c) T Lymphocyte mediated Renal Injury  Immunological Mediators in Acute inflammation | | |  |  |  | |
| 13 | 2 Theory +4 Practice | | Some Renal disease   1. Primary glomerulonephritis    1. Memberanousglomerlulonephritis (Nephrotic Syndrome) | | |  |  |  | |
| 14 | 2 Theory +4 Practice | | * 1. PostinfectionGlomerulo-nephritis   2. IgA Nephropathy | | |  |  |  | |
| 15 | 2 Theory +4 Practice | | 1. Lupus Nephritis 2. Henoch-SchonleinPurpura | | |  |  |  | |
| 16 | 2 Theory +4 Practice | | Vasculitis-Associated Glomerular Lesion  Anti-Glomerular Basement Membrane Disease | | |  |  |  | |
| 17 | 2 Theory +4 Practice | | Respiratory Diseases:  Drug-induced Respiratory disease | | |  |  |  | |
| 18 | 2 Theory +4 Practice | | * 1. Eosinophilic Pneumonias   2. Occupational & Environmental lung Diseases | | |  |  |  | |
| 19 | 2 Theory +4 Practice | | Asthma | | |  |  |  | |
| 20 | 2 Theory +4 Practice | | Non-Allergic Bronchitis | | |  |  |  | |
| 21+22 | 2 Theory +4 Practice | | Hypersensitivity Diseases: | | |  |  |  | |
| 23 | 2 Theory +4 Practice | | Autoimmune Hemolytic Anemia | | |  |  |  | |
| 24 | 2 Theory +4 Practice | | Eczema and Contact Dermatitis | | |  |  |  | |
| 25+26 | 2 Theory +4 Practice | | Endocrinology ( Immunological Thyroid Diseases , Immunological Infertility and other ) | | |  |  |  | |
| 27+28 | 2 Theory +4 Practice | | Tumors and Tumor Markers | | |  |  |  | |
| 29+30 | 2 Theory +4 Practice | | Graft versus host rejection and Transplantation | | |  |  |  | |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | المنهج الوزاري لمادة المناعة السريرية (مادة تقويمية) المزود عبر الرابط الوزاري  <https://hmt.mtu.edu.iq/e-learning/> | | | |
| Main references (sources) | | | | | 1. Essential of clinical immunology (Helen chapel 6 edition  2. Basic and clinical immunology ( Mark peakman  Diego vergani second edition )  3 - color atlas of immunology | | | |
| Recommended books and references (scientific journals, reports...) | | | | | Oxford Handbook of Clinical Immunology and Allergy (Gavin Spickett) Fourth edition | | | |
| Electronic References, Websites | | | | | <https://hmt.mtu.edu.iq/e-learning/> | | | |
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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **2023-2024** |  | **Diagnostic microbiology** | **Basic** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** | **\*** |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: | | | | | | | | |
| Diagnostic microbiology | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: | | | | | | | | |
| 2023-2024 | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 15/3/2024 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
| Theoretical and practical | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| 6 hours weakly (180 hours yearly) | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Hayder Talib Mohammed Ali Al-Hisnawi  Email: Hayder.talib@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | * Identify the most important types of germs that infect various body systems, causing diseases * Knowledge of appropriate methods and procedures for the accurate isolation and diagnosis of various germs * Differentiate between bacterial diseases and other diseases | | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Behavioral change among students through their classroom participation, extracurricular activities, and distribution  They take turns during the lecture to achieve their understanding of the vocabulary presented to them during the lesson  In addition to using various educational methods to develop their scientific skills and thinking abilities  Discussion and conclusion | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | | | **Unit or subject name** | **Learning method** | **Evaluation method** | |
| 1 | 2 Theory +4 Practice | | **purpose and philosophy** | | |  |  |  | |
| 2 | 2 Theory +4 Practice | | **Laboratory safety** | | |  |  |  | |
| 3,4,5 | 2 Theory +4 Practice | | **Selection, collection, and transport of specimens**  **for microbiological examination** | | |  |  |  | |
| 6 | 2 Theory +4 Practice | | **Cultivation and Isolation of Viable Pathogen** | | |  |  |  | |
| 7,8,9 | 2 Theory +4 Practice | | **Microbiological methods for identification of**  **Microorganisms** | | |  |  |  | |
| 11 | 2 Theory +4 Practice | | **-Antibiotic susceptibility tests** | | |  |  |  | |
| 12,13 | 2 Theory +4 Practice | | **-Methods for identification of etiological agents of infectious disease** | | |  |  |  | |
| 14-15 | 2 Theory +4 Practice | | **8-Diagnosis by organ system Blood stream infections** | | |  |  |  | |
| 16,17 | 2 Theory +4 Practice | | **Meningitis and other infections of the Central**  **Nervous System (CNS)** | | |  |  |  | |
| 18,19 | 2 Theory +4 Practice | | **10-Diagnosis of bacterial respiratory tract infections** | | |  |  |  | |
| 20,21 | 2 Theory +4 Practice | | **11-Infection**s **of the** U**rinary** T**ract** | | |  |  |  | |
| 22 | 2 Theory +4 Practice | | **12-Genital tract infections** | | |  |  |  | |
| 23,24 | 2 Theory +4 Practice | | **13-Bacterial Infections of the Gastrointestinal (GI) Tract** | | |  |  |  | |
| 25 | 2 Theory +4 Practice | | **14-Bacterial infections of eyes, ears, & sinuses** | | |  |  |  | |
| 26 | 2 Theory +4 Practice | | **Skin, Soft tissue and wound infection** | | |  |  |  | |
| 27 | 2 Theory +4 Practice | | **Normally Sterile Body Fluids, Bone and Bone**  **Marrow, and Solid Tissues** | | |  |  |  | |
| 28 | 2 Theory +4 Practice | | **Laboratory Methods for diagnosis of Parasitic Infections** | | |  |  |  | |
| 29 | 2 Theory +4 Practice | | **Lab Methods in basic Mycology** | | |  |  |  | |
| 30 | 2 Theory +4 Practice | | **Lab Methods in basic Virology** | | |  |  |  | |
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| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | المنهج الوزاري لمادة علم الاحياء المجهرية التشخيصية (مادة تقويمية) المزود عبر الرابط الوزاري  <https://hmt.mtu.edu.iq/e-learning/> | | | |
| Main references (sources) | | | | | Jawetz, R., J.L. Melnick, and E.A. Adelberg, Review of Medical Microbiology, Twenty-Eighth Edition, 2019. | | | |
| Recommended books and references (scientific journals, reports...) | | | | | Themes, U. F. O. (2017-02-19). "6 Viruses–Basic Concepts". Basic medical Key. Retrieved 2020-05-29.  King AMQ, Adams MJU, Carstens EB, Lefkowitz EJ (editors): Virus Taxonomy: Classification and Nomenclature of Viruses. Ninth Report of the International Committee on Taxonomy of Viruses. Academic Press, 2012.  Knipe DM, Howley PM, (editors-in-chief): *Fields Virology*, 5th ed. Lippincott Williams & Wilkins, 2007. | | | |
| Electronic References, Websites | | | | | <https://hmt.mtu.edu.iq/e-learning/> | | | |
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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| 2nd year/ 1st course |  | **Molecular Biology** | **Basic** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| 1. Course Name: | | | |
| Molecular Biology | | | |
| 1. Course Code: | | | |
|  | | | |
| 1. Semester / Year: | | | |
| 2nd year/ 1st course | | | |
| 1. Description Preparation Date: | | | |
| 14-1-2024 | | | |
| 1. Available Attendance Forms: | | | |
| Classes | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | |
| 90 Hours/ 4 Units | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | |
| Name: Sddiq Ghani Joda Al-Muhanna  Email: [sddiq.almuhanna@alkafeel.edu.iq](mailto:sddiq.almuhanna@alkafeel.edu.iq) | | | |
| 1. Course Objectives | | | |
| **Course Objectives** | | | Molecular biology is concerned with the study of biology at the molecular level, so it overlaps with both microbiology and chemistry in several branches and intersects with biochemistry and genetics in several areas. Molecular biology is concerned with studying the various interrelationships between all cellular systems, especially the relationships between DNA & RNA and the process of protein synthesis, in addition to the mechanisms for regulating this process and all biological processes. At the end of this course, the student will be able to understanding the three-dimensional structures and structural formations of nucleic acids in humans, as well as understanding their molecular foundations, and also understanding process of replication, transcription and translation. |
| 1. Teaching and Learning Strategies | | | |
| **Strategy** | Coordination and integration between different medical specialties and sciences to achieve a connection between basic sciences and their clinical and practical applications, through coordination between departments to teach related topics in parallel as much as possible in the second. | | |
| 1. Course Structure  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** | | 1 | 2 | **Bachelor's** | 1 Introduction to Molecular Biology applications in Medical Laboratory Techniques specialization | Theoretical + practical | Quizzes  Practical  Exams  Theoretical Exams | | 2  4 |  | Structure of Deoxyribonucleic acid (DNA)  1- Primary structure  2- Secondary structure  1- Tertiary structure and chromosome packing in human cells  2- Structure of Ribonucleic acid (RNA) | | 5 |  | DNA replication and replication Models | | 6 |  | DNA Transcription and post transcriptional modification processes | | 7 |  | Translation and post translational modifications and protein synthesis | | 8 |  | Gene expression, genetic code and applications of genetic code | | 9+10 |  | DNA damage, types and repair systems and mechanisms | | 11+12 |  | DNA mutations, chromosomal aberrations and causes of gene mutations | | 13 |  | Programmed cell death, telomere and telomerase association with carcinogenesis | | 14+15 |  |  | Introduction to Recombinant DNA technology  1- Restriction enzymes  2- Cloning vectors  3- Applications in Molecular cloning |  |  | | | | |
| 1. 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. Learning and Teaching Resources | | | |
| Required textbooks (curricular books, if any) | |  | |
| Main references (sources) | | Molecular Cell Biology, eighth edition (2016). By Harvey Lodish; Arnold Berk; Chris A. Kaiser; Monty Krieger; Anthony Bretscher; Hidde Ploegh; Angelika Amon; Kelsey C. Martin | |
| Recommended books and references (scientific journals, reports...) | |  | |
| Electronic References, Websites | | <https://www.ncbi.nlm.nih.gov> | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| 1st Semester |  | Human rights | **optional** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
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**Course Description Form**

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| 1. Course Name: | | |
| Baath Party crimes | | |
| 1. Course Code: | | |
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| 1. Semester / Year: | | |
| 1st Semester / 2nd stage | | |
| 1. Description Preparation Date: | | |
| 25-3-2024 | | |
| 1. Available Attendance Forms: | | |
| Classes | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | |
| 30 Hours/2 | | |
| 1. Course administrator's name (mention all, if more than one name) | | |
| Name: assist.lec moatasem rabie hussain | | |
| 1. Course Objectives | | |
| **Course Objectives** | Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity | |
| 1. Teaching and Learning Strategies | | |
| **Strategy** | 1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation.  2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction.  3- Presenting some practical cases. | |
| 1. Course Structure  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** | | 1 | 1 | **Bachelor's** | A glimpse into Iraq's modern history | Theoretical + practical | Exams | | 2 | 1 | A glimpse into the history of the Baath Party | | 3 | 1 | Violation of freedoms and rights | | 4 | 1 | The impact of the Baathist regime’s behaviors on society | | 5 | 1 | Psychological mechanisms in controlling judgment | | 6 | 1 | The transitional period and the fight against tyranny | | 7 | 1 | Social mechanisms in controlling governance | | 8 | 1 | The Baath Party’s position on religion | | 9 | 1 | Culture, media, and the militarization of society | | 10 | 1 | Culture, media, and the militarization of society2 | | 11 | 1 | Use of internationally prohibited weapons | | 12 | 1 | scorched earth policy | | 13 | 1 | Drying of marshes Forced displacement | | 14 | 1 | Destruction of the agricultural and animal environment | | 15 | 1 | Mass graves and bombing of places of worship | | | |
| 1. 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. Learning and Teaching Resources | | |
| Required textbooks (curricular books, if any) | | * Human Rights.. The New Vision: Moncef Marzouki * An introduction to understanding the human rights system: Mohamed Al-Sayed Saeed. |
| Main references (sources) | |  |
| Recommended books and references (scientific journals, reports...) | | Books and references on human rights |
| Electronic References, Websites | | Internet network |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| 1st Semester |  | Human rights | **optional** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
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**Course Description Form**

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| --- | --- | --- |
| 1. Course Name: | | |
| Human rights | | |
| 1. Course Code: | | |
|  | | |
| 1. Semester / Year: | | |
| 1st Semester | | |
| 1. Description Preparation Date: | | |
| 21-3-2024 | | |
| 1. Available Attendance Forms: | | |
| Classes | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | |
| 15 Hours/1 | | |
| 1. Course administrator's name (mention all, if more than one name) | | |
| Name: assist.lec moatasem rabie hussain | | |
| 1. Course Objectives | | |
| **Course Objectives** | Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity | |
| 1. Teaching and Learning Strategies | | |
| **Strategy** | 1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation.  2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction.  3- Presenting some practical cases. | |
| 1. Course Structure  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** | | 1 | 1 | **Bachelor's** | The concept of human rights | Theoretical + practical | Exams | | 2 | 1 | The most important basic methods of human rights | | 3 | 1 | Types of human rights | | 4 | 1 | Human rights in ancient civilizations | | 5 | 1 | Human rights in the Middle Ages | | 6 | 1 | Human rights in Islam and the heavenly religions | | 7 | 1 | Human rights in Renaissance societies | | 8 | 1 | Human rights in modern times | | 9 | 1 | Human rights in modern times | | 10 | 1 | Human rights in modern times 2 | | 11 | 1 | Guarantees for the protection of human rights at the national level of service | | 12 | 1 | Environmental awareness in Iraq | | 13 | 1 | Environmental awareness in Iraq 2 | | 14 | 1 | Concept of action | | 15 | 1 | Human rights categories | | | |
| 1. 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. Learning and Teaching Resources | | |
| Required textbooks (curricular books, if any) | | * Human Rights.. The New Vision: Moncef Marzouki * An introduction to understanding the human rights system: Mohamed Al-Sayed Saeed. |
| Main references (sources) | |  |
| Recommended books and references (scientific journals, reports...) | | Books and references on human rights |
| Electronic References, Websites | | Internet network |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| 2nd Semester |  | Arabic language | **optional** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
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**Course Description Form**

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| 1. Course Name: | | |
| Arabic language | | |
| 1. Course Code: | | |
|  | | |
| 1. Semester / Year: | | |
| 2nd Semester | | |
| 1. Description Preparation Date: | | |
| 22-3-2024 | | |
| 1. Available Attendance Forms: | | |
| Classes | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | |
| 30 Hours/2 | | |
| 1. Course administrator's name (mention all, if more than one name) | | |
| Name: assist.lec moatasem rabie hussain | | |
| 1. Course Objectives | | |
| **Course Objectives** | Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity | |
| 1. Teaching and Learning Strategies | | |
| **Strategy** | 1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation.  2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction.  3- Presenting some practical cases. | |
| 1. Course Structure  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** | | 1 | 1 | **Bachelor's** | Introduction to linguistic errors (ta’ and ha’) | Theoretical + practical | Exams | | 2 | 1 | Introduction to linguistic errors (ta’ and ha’)2 | | 3 | 1 | Rules for writing extended and short alifs - solar and lunar letters | | 4 | 1 | Writing the hamza | | 5 | 1 | punctuation marks | | 6 | 1 | The noun, the verb, and the difference between them | | 7 | 1 | objects | | 8 | 1 | the number | | 9 | 1 | Applications on common linguistic errors | | 10 | 1 | Noun and noun - meanings of prepositions | | 11 | 1 | Formal aspects of administrative discourse | | 12 | 1 | The language of administrative discourse | | 13 | 1 | Examples of administrative correspondence | | 14 | 1 | Examples of administrative correspondence2 | | 15 | 1 | Dhaad and Dhaa | | | |
| 1. 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. Learning and Teaching Resources | | |
| Required textbooks (curricular books, if any) | | Collector of Arabic Lessons: Mustafa Al-Ghalayini |
| Main references (sources) | |  |
| Recommended books and references (scientific journals, reports...) | | Books and references on Arabic language |
| Electronic References, Websites | | Internet network |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| 2nd Semester |  | Statistics | **optional** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| 1. Course Name: | | | |
| Statistics | | | |
| 1. Course Code: | | | |
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| 1. Semester / Year: | | | |
| 2nd Semester | | | |
| 1. Description Preparation Date: | | | |
| 19-3-2024 | | | |
| 1. Available Attendance Forms: | | | |
| Classes | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | |
| 45 Hours/3 | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | |
| Name: Dr.Ali Saleh Hassoon  Email: alisalealtaie2015@gmail.com | | | |
| 1. Course Objectives | | | |
| **Course Objectives** | | | **Identify the stages of the statistical process in medical and scientific applications.**  **Recognizing the importance of statistics in the field of scientific research as a basis for**  **analysis in medical and health sciences** |
| 1. Teaching and Learning Strategies | | | |
| **Strategy** | 1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation.  2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction.  3- Presenting some practical cases. | | |
| 1. Course Structure  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** | | 1 | 1+2 | **Bachelor's** | Definition of Biostatistics basic statistics, some concepts . | Theoretical + practical | Exams | | 2 | 1+2 | Methods of data presentation | | 3 | 1+2 | Descriptive statistics | | 4 | 1+2 | Descriptive statistics | | 5 | 1+2 | Percentiles, Quartiles and range | | 6 | 1+2 | Normal Distribution Applications | | 7 | 1+2 | Moments,Skweness and Kurtoisis | | 8 | 1+2 | Elementary Probability Theory | | 9 | 1+2 | Statistics Estimation Theory | | 10 | 1+2 | Test of Significant | | 11 | 1+2 | Different type of t-test | | 12 | 1+2 | Chi-Square significant test | | 13 | 1+2 | One way Anova test | | 14 | 1+2 | Simple Coloration coefficient | | 15 | 1+2 | Simple Linear regression | | | | |
| 1. 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. Learning and Teaching Resources | | | |
| Required textbooks (curricular books, if any) | | * Professor Dr.Amjed Doud Niazi: statistical analysis in medical researchers)2nd edition ,March2004. * Wayne W. Danieal (BIOSTATISICS)Basic Concepts and Methodology for the Health Sciences ,9th edition,2010. | |
| Main references (sources) | | The principle of biostatistics | |
| Recommended books and references (scientific journals, reports...) | | Books and references on statistics | |
| Electronic References, Websites | | Internet network | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **year** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name:Histopathology | | | | | | | | |
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| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year:year | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date:15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: 15/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / 2 theory and 3practic Number of Units (Total) 7 | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Ali Abdul razak Alsaeegh  Email: Ali.alsaeegh@ Alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **\*to learn change disease.**  **\*TO learn how to diagnosis the cell disease**  **\*to learn how to make the slide disease .....**   * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | |  | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 30 | 5 | | Scrin. laboratory | 1-cell  2-acute inflammation  3-chronic inflammation  4-repair,healing  , .regenration  5-degeneration  6-Atrophy, necrosis  7-Gangren  8Diagnosis cancer  9-change in cytoplasm in malignant cancer  10-change in cell in malignancy  11-Numenclatuer of tumor  12-classification of tumor  13-fixation  14-special stain  15-tissuue process  16-Facter influent rat of impregnation  17-Microtom and paraffin section  18-staning tissue  19-specail stain  20-bon section  21-Demonstration of cytoplasm granule organells and secial tissue  22-neuropathological tech. niques  23-Enzyme histochemistry and application  24-immunohistochemistery and application  25-resin embedded media  26-Electron microscop  27-Elictron micro.use  28Histometry and diagnosis use  29-Immunofluresence tech.  30-Museum and oth | | |  |  |
| 1. Course Evaluation=10 for day examin, 15 first course,15 second course, 40 final examin.20 practic. | | | | | | | | |
| 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | Basic pathology text book (roben) | | | |
| Main references (sources) | | | | | Researched paper, | | | |
| Recommended books and references (scientific journals, reports...) | | | | | Biochem.cell.Arch  Hiv Nursing  Alkafeel Cnferance | | | |
| Electronic References, Websites | | | | | All the scientific site in net. | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | | |
|  | | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
| **2024** |  | **Virology and Mycology** | | **Basic** |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: | | | | | | | | |
| **Virology and Mycology** | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: | | | | | | | | |
| **third year** | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 14/3/2024 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Dr. Qassim Muhsin Alfaham  Email: qassimalfaham@alkafeel.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | * **Language Proficiency:**   + Develop proficiency in listening, speaking, reading, and writing skills in English.   + Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. * **Vocabulary and Grammar:**   + Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts.   + Apply grammatical structures accurately and effectively in spoken and written communication. * **Reading Comprehension:**   + Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles.   + Identify main ideas, supporting details, and implied meanings in English texts. * **.....** * **.....** * **.....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | Lectures using the smart board  Scientific discussions  Practical experiment | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
|  |  | |  |  | | |  |  |
| 1. 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. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | |  | | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | | |
| Electronic References, Websites | | | | |  | | | |

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| **Program Skills Outline** | | | | | | | | | | | | | | | |
|  | | | | **Required program Learning outcomes** | | | | | | | | | | | |
| **Year/Level** | **Course Code** | **Course Name** | **Basic or optional** | **Knowledge** | | | | **Skills** | | | | **Ethics** | | | |
| **A1** | **A2** | **A3** | **A4** | **B1** | **B2** | **B3** | **B4** | **C1** | **C2** | **C3** | **C4** |
|  |  | **Parasitology** | **\*** |  |  |  | **\*** |  |  |  | **\*** |  |  |  | **\*** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: **Parasitology** | | | | | | | |
|  | | | | | | | |
| 1. Course Code: | | | | | | | |
|  | | | | | | | |
| 1. Semester / Year: Second | | | | | | | |
| 2023/2024 | | | | | | | |
| 1. Description Preparation Date: | | | | | | | |
| 17/3/2024 | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | |
| In presence | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | |
| 2/T/ 2/ P/ C/6 | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | |
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| 1. Course Objectives | | | | | | | |
| **Course Objectives** | | | | | | * **Introdaction to study the classification of parasitology to medical protozoa and helminthe the disease produce and study the main pathoginc disease ,symptoms , the main hethod of diagnosis .....** * **.....** * **.....** | |
| 1. Teaching and Learning Strategies | | | | | | | |
| **Strategy** | | 1-lecture  2-Brainstorming  3-Strategy for providing examples. | | | | | |
| 1. Course Structure | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| |  |  | | --- | --- | | المفردات النظرية/ الطفيليات الطبية |  | | تفاصيل المفردات | Week | | Terms and definitions in parasitology.  Parasite ,host, symbiosis, ectoparasite, endoparasite ,accidental parasite, obligate parasite, facultative parasite ,host parasite relation ship, scientific nomenclature, type of life cycles, type of hosts , mechanism of antiparasitic drugs. | 1 | | Introduction to protozoology.  Organell of locomotion, mode of living, reproduction, classification of protozoa. | 2 | | Sacodina, Entamoeba histolytica.  Biology , medical importance and clinical feature of amoebiasis:  1-Intestinal amoebiasis.  2-Extra intestinal amoebiasis.  Lab. Diagnosis: 1.Direct method (G.S.E.).  2.Indirect method (Serological tests). | 3 | | Entamoeba coli  Differntiation between E. histolytica & E.coli  E. gingivalis.  Biology, medical importance, Lab. Diagnosis. | 4 | | 4Small amoeba:  Endolimax nana  Iodamoeba butschlii.  Biology of the stages,Lab. Diagnosis. | 5 | | Mastigophora, general characters.  Intestinal flagellates.  Giardia lamblia.  Chilomastix mesnali, Dieantamoeba fragilis.  Biology & stages.  Diagnostic characters of all stages. | 6 | | Genus Trichomonas.  T. vaginalis/ urogenital flagellate.  T. hominis  T. tenax  Biology , medical importance and Lab. Diagnosis of each species. | 7 | | Heamo- flagellates( blood & tissue flagellates),general characters.  Developmental stages in the vertebrate & invertebrate hosts.  Genus leishmania ,species of leishmania, biology, vector, medical importance of eachspecies, types of leishmaiasis , life cycle ,Lab. Diagnosis, incloding immunological tests. | 8 | | Genus Trypanosoma, species of trypanosome, biology , vector, medical importance of each species, forms of parasite, life cycle,Lab. Diagnosis. | 9 | | Ciliophora: Blantidium coli ,Biology , medical importance, Lab. Diagnosis.  Apicomplex: General charcter.  Genus Toxoplasma.,T.gondii ,Biology, medical lmportance,acquired and congenital toxoplasosis. Life cycle, role of domesticate animals in the transmission of the disease. Lab. Diagnosis. | 10 | | Genus plasmodium.  Introduction to malarial parasites, malarial paroxysm, general life cycle of the plasmodium , species of plasmodium. | 11 | | P.falciparum, P. vivax, P ovale, P. malarae  Disease, pathology, medical importance, distribution, main differences during life cycle. | 12 | | General discussion on malarial parastes ,epidemiology, methods of diagnosis. Time to take clinical samples.  Blood films. | 13 | | Isopora, pathology, medical importance,Lab. Dianosis.  Sarcocystis species: pathology , medical importance,Lab diagnosis. | 14 | | Cryptosporidiadse  Genus cryptosporidium, species belong the genus, biology, pathology, epidemiology,Lab.diagnosis. | 15 | | Platyhelminth: General characters.  Class cestoda: General characters.  Teania saginata:  Teania solium: Morphology & the adult warm and the larval stages of each species, biology, life cycle of each species, pathologinicity of each species, Lab. Diagnosis | 17 | | Hymenolepis nana, Hymenolepis diminuta.  Diplidium caninum, Diphyllobathrium latum, Biology, morphology, pathoginicity of eachspecies,Lab. Diagnosis. | 18 | | Echinococcus granulosus.  Echinocuccus multilocularis.  Biology,life cycle, pathoginicity, medical importance of hydatid cyst disease ,Lab. Diagnosis. | 19 | | Class Trematoda: General characters.  Genus Schistosoma.  Specis of human schistosoma, life cycle.  Schistosoma hematobium.  Schistosoma mansoni.  Biology of adult worm, habitat, pathgenicity,Lab.diagnosis | 20 | | Fasciula hepatica  Biology , life cycle, pathogenicity, Lab diagnosis.  Nemathelminthis.  Clss Nemtoda, general characters. | 21 | | Ascaris lambricoides  Enterobius vermicularis.  Biology of adult worm,lifecycle, pathgenicity and medical importanceof each species, Lab. Diagnosis of each species. | 22 | | Trichuris trichura.  Trichenala spiralis.  Biology , life cycle , pathogenicity, medical importanceof each species, Lab. Diagnosis of each species. | 23 | | Strogyloides stercoralis.  Biology, life cycle, pathgenicity, medical importance, Lab. Diagnosis. | 24 | | Ancylostoma duadenale ,Necator Americans ( Hooks worm)  Biology, life cycle, pathogenicity, medical importance of each species, Lab. Diagnosis. | 25 | | The filariae: Biology, pathgenicity and medical importance of each species, Lab. Diagnosis of each species. Visceral larvae migrance, Cutaneaus larvae migrance. | 26 | | **Entomology** |  | | Sand fly, Black fly | 27 | | Mosqiutoes | 28 | | Ticks & Mites | 29 | | Fleas | 30 | |  | | Lecture | prasitology | | | Oral and  writtin | lectur |
| 1. Course Evaluation | | | | | | | |
| 25 T . 15 P . Final 60 | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | |
| Main references (sources) | | | | | Medical parasitology | | |
| Recommended books and references (scientific journals, reports...) | | | | |  | | |
| Electronic References, Websites | | | | |  | | |