

**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:** The Department of Anesthesia Technology seeks to apply international standards in education, scientific research and community service for sustainable development in accordance with Islamic concepts

**Program Mission:** Anesthesia Department Techniques is aims to have a distinguished scientific standing by graduating qualified cadres to keep pace with developments in the field of anesthesia and intensive care techniques to enhance professional concepts and ethics among students.

**Program Objectives:**

The department aims to graduate qualified technical personnel to carry out their work in the public and private health sectors and aims to obtain program accreditation and enter international and international classifications

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual) 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:** Al-Kafeel University.............

 **College/Institute:** College of Health and Medical Technologies.............

 **Scientific Department: Department of ......**Anesthesia Techniques.........

 **Name of the academic or professional program**: Bachelor’s degree......

 **Name of final degree:** Bachelor of Anesthesia Technology...

 **Academic system: semester**

 **Description preparation date:**15/3/2024

 **File filling date:**15/3/2024

**Signature:**

**Scientific Associate Name:**

**Asst.proff.Dr.Sddiq Ghani Joda**

**Date:15/3/2024**

**Signature:**

**Head of Department Name:**

**Asst.proff.Dr.Israa Abdul-Ameer**

**Date:15/3/2024**

 **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 Department of Anesthesia Technology seeks to be one of the best academic departments recognized for its integrity, meeting international standards in education, application of knowledge and scientific research, serving the community for the comprehensive and sustainable development of humanity, and dedication and embodiment of the spirit of Islamic values.  |

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| 1. **Program Mission**
 |
| The Department of Anesthesia Technologies is keen to enhance the various cognitive aspects of community development by creating a distinguished scientific environment capable of producing a new generation with knowledge in various fields, which helps in building our society and providing an atmosphere of scientific excellence capable of enhancing scientific and cognitive creativity for generations. The department also seeks to offer a variety of scientific courses in various fields characterized by a culture of creativity in the work environment and the development of professional and cognitive capabilities. Instilling moral values, to enable students to acquire basic knowledge and skills in the field of anesthesia and critical care technology, enhance self-confidence, develop the spirit of cooperation, and recognize the importance of teamwork in the medical team. |

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| 1. **Program Objectives**
 |
| 1. 1- To graduate qualified technical personnel to carry out their work efficiently and carefully according to professional foundations, with a focus on the ethics and honor of the profession and patient privacy.
2. 2- Qualifying a graduate of the Anesthesia Techniques Department to work in hospitals and health centers, able to work in a proper manner
3. Distinguished, with a high quality of education and efficient skills in the fields of anesthesia, in a way that is compatible with the labor market
4. 3- He must have experience in prescribing, determining and giving the appropriate dose of anesthesia to the patient according to many factors (age, nature of the medical procedure, health history...)
5. 4- Employing cadres trained to follow up on the patient’s condition during the operation and ensuring that he does not wake up. He has high efficiency in monitoring ventilators in operating rooms, following up and monitoring the patient’s health status during anesthesia with high efficiency, and communicating with patients to explain the nature and type of anesthesia.
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| 1. **Program Accreditation** Minestary
 |
| Does the program have program accreditation? And from which agency? No |

|  |
| --- |
| 1. **Other external influences**  Chief of collage
 |
| Is there a sponsor for the program? Ministry of Higher Education- Private Education DepartmentHigher Education Authority -Attabah Abbasia |

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| 1. **Program Structure**
 |
| **Program Structure**  | **Number of Courses**  | **Credit hours** | **Percentage** | **Reviews\*** |
| **Institution Requirements**  | **1** | **1** | **4%** | **Guidance****optional** |
| **College Requirements** | **1** | **5** | **10%** |  |
| **Department Requirements**  | **42** | **178** | **--** |  |
| **Summer Training** | **--** | **--** | **--** |  |
| **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 one** |  |  | **theoretical** | **practical** |
| **CH001** | **General chemistry** | **2** | **6** |
| **PHY001** | **General physiology** | **2** | **6** |
| **PHY001** | **Medical physics** | **2** | **6** |
| **MED001** | **Medical terminology** | **2** | **-** |
| **BIO001** | **Biology** | **2** | **6** |
|  | **Anatomy** | **2** | **6** |
| **ENG001** | **English language** | **2** | **-** |
| **HR001** | **Human rights** | **2** | **-** |
| **PC001** | **Principle of computer** | **2** | **6** |
| **Year Two** | **AN001** | **Basics of Anesthesia** | **2** | **6** |
| **AN002** | **Basics of Anesthesia Equipment** | **2** | **6** |
| **MED001** | **Basics of medicine** | **2** | **6** |
|  | **Basics of surgery** | **2** | **6** |
| **PHC001** | **Pharmacology** | **2** | **6** |
| **MED001** | **Medical terminology** | **2** | **-** |
| **PH001** | **Applied physiology** | **2** | **6** |
|  | **Al Baath crimes** | **2** | **-** |

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| --- | --- |
| Human Anatomy/Physiology/ biology**Chemistry** Physics  | Gain a comprehensive understanding of the structure and function of the human body at the cellular, tissue, organ, and system levels.Grasp the chemical processes within living organisms and their role in health and disease.Knowledge of the physics of the human body through knowledge of the natural structure and function of the body, the systems of the main organs, and the physical laws that control them |
| **Skills**  |
| Early Clinical and Professional Development (ECPD) | Develop the skills to gather a comprehensive medical history from patients and perform a thorough physical examination. |
| Medical Terminology  | Become proficient in medical terminology to accurately document and discuss patient conditions. |
| **Ethics**  |
| Medical Ethics  | To treat all patients according to principles of medical ethics, emphasizing patient confidentiality, informed consent, and professional integrity |
| Patient safety | To develop essential clinical skills with the overall aim of ensuring patients’ safety. |

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| 1. **Teaching and Learning Strategies** skills and values acquired by students after Theory lectures
2. Laboratory sessions
3. Display and presentation.
4. Interactive discussion
5. Brainstorming
6. Flipped classroom.
7. Seminar
8. Clinical visit
9. Small group teaching =
 |
| Teaching and learning strategies and methods adopted in the implementation of the program in general.  |

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| 1. **Evaluation methods Day Examin Coues Examin, Final examin**
 |
| Implemented at all stages of the program in general.1. Homework and individual and group reports
2. Daily quizzes
3. Practical skills assessment
4. Midterm and end of term exams
5. Graduation projects
 |

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| 1. **Faculty**
 |
| **Faculty Members** |
| **Academic Rank** **Professor** | **Specialization** **Pathology** | **Special Requirements/Skills (if applicable)** **HISTOPSTHOLOGY** | **Number of the teaching staff** **0NE THERORY****ONE PRACTIC** |
| **General**  | **Special**  |  | **Staff**  | **Lecturer**  |
| Assistant Professor.Israa Abdul Ameer  | Biology |  |  |  | ✔ |  |
| Assistant Professor.Ali N. Ali | medicine |  |  |  | ✔ |  |
| Asst.L.Ahmed Mohamed Obaid | Anesthesia technician |  |  |  |  | ✔ |
| Muhannad Yahya Idris | medicine |  |  |  |  | ✔ |
| Ali Saleh Hassoun | Biology |  |  |  |  | ✔ |
| **Professor** Muayad Abdullah Al-Khafaji | medicine |  |  |  | ✔ |  |
| **Professor** Hussein Aziz Nasser | medicine |  |  |  |  | ✔ |
| **Professor** Abdul Karim Abdullah | medicine |  |  |  | ✔ |  |
| Salem Fayez Kadem | pharma |  |  |  | ✔ |  |
| Asst.L.Amir Abdul Hussein | Veterinary medicine |  |  |  | ✔ |  |
| Asst.L.Zahraa Abdel Salam | Veterinary medicine |  |  |  | ✔ |  |
| Asst.L. Israa Hamza Jassim | Analytics techniques |  |  |  | ✔ |  |
| Asst.L.Baneen Basim Kadem | Biology |  |  |  | ✔ |  |
| Asst.L.Sarah Sattar Jabbar | Chemistry  | biochemistry |  |  | ✔ |  |
| Asst.L.Gufran forgiveness is generous | Veterinary medicine |  |  |  | ✔ |  |
| Asst.L.Muhammad Sarim Hamza | Biology |  |  |  | ✔ |  |
| Asst.L.Muhammad Abdel Hassan Mohsen | English language |  |  |  | ✔ |  |
| Asst.L.Huda Noman Obaid | communication Engineering |  |  |  | ✔ |  |
| Asst.L.Mutasim Rabih Hussein | Arabic language |  |  |  | ✔ |  |
| Abdulhussein jaafer mosa | Chemistry  | Clinical biochemistry |  |  | Two |  |

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| **Professional Development** |
| **Mentoring new faculty members**= write lactuer and visin lacter . |
| Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.Professional DevelopmentMentoring new faculty membersSubjecting new teachers to courses on teaching methods and taking a teaching competency test, and only by passing it are they allowed to teach, while following up on their teaching methods and giving them feedback. |
| **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.Follow up on teaching methods for all teachers by the Office of the Associate Dean, prepare seminars and workshops to develop teaching and speaking skills, and ensure the preparation and presentation of lectures in the continuing medical education curriculum. |

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| 1. **Acceptance Criterion** =rat of average marke
 |
| **(Setting regulations related to enrollment in the college or institute, whether central admission or others)** **The academic average for the student’s graduation from preparatory school, physical and mental health according to the standards established and approved by the Ministry of Higher Education and Scientific Research** |

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| 1. **The most important sources of information about the program**
 |
| State briefly the sources of information about the program. =book and journal 1. Approved and authenticated documents for the general curriculum of the college and the courses, vision, mission, and goals of the university and college in both Arabic and English.2. The website of the Ministry of Higher Education and Scientific Research.3. The official website of Al-Kafeel University and its College of Health and Medical Technologies, Department of Anesthesia Technologies4. Billboards installed in the college corridors. |

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| 1. Program Development Plan
 |
| By practice and theory lecture1)Systematic and recurring self-evaluation studies of the program are based on evaluating the learning and teaching outcomes of students and obtaining feedback from students about the components of the program.2) Holding regular meetings with faculty members in local and foreign health and medical technology colleges to learn about new curricula and teaching methods.3) Holding workshops on developing curricula and teaching methods in the college or attending those held in neighboring universities. |

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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 One** | **BIO001** | **Biology** | **Basic** | **/** | **/** | **/** |  | **/** | **/** | **/** |  | **/** | **/** | **/** |  |
| **AN001** | **Anatomy** | **Basic** | **/** | **/** | **/** |  | **/** | **/** | **/** |  | **/** | **/** | **/** |  |
| **CH001** | **Chemistry** | **Basic** | **/** | **/** | **/** |  | **/** | **/** | **/** |  | **/** | **/** | **/** |  |
| **PHC001** | **Physic** | **Basic** |  | **/** |  |  |  | **/** |  |  |  |  | **/** |  |
| **PHY001** | **Physiology** | **Basic** | **/** | **/** | **/** |  | **/** | **/** | **/** |  | **/** | **/** | **/** |  |
| **PC001** | **Computer** | **Optional** |  |  | **/** |  |  |  | **/** |  |  |  |  | **/** |
| **ENG001** | **English language** | **Optional** |  |  |  | **/** |  |  |  | **/** |  |  |  | **/** |
| **AR001** | **Arabic Language** | **Optional** |  |  |  | **/** |  |  |  | **/** |  |  |  | **/** |

* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**First Stage /First Course**

**Course Description Form**

|  |
| --- |
| 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 shamsahEmail: 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 isotopesSolutions 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 bodyMetabolism of carbohydrates, blood glucose factors controlling glucose level in bloodGlucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curveLipids, classification, derived lipids, compound, lipidsLipid metabolism, lipid abnormalitiesProteins, 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 |  |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
|  Medical Physics |
| 1. Course Code:
 |
|  |
| 1. Semester / Year:
 |
|  The first course / 2023 -2024  |
| 1. Description Preparation Date:
 |
|  12/1/2024 |
| 1. Available Attendance Forms:
 |
| Class Attendance |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| ) 2 theoretical +4 practical ) hours (weekly)= 90 hours / 4 units  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| 1. Name: Pro. Dr. Ali Khalaf Hasan

Email: alikh.alsinayyid@uokufa.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | 1 Identify the general concepts of medical physics2. Identify the most important branches and general specializations in medical physics -3. Identify the most important laws of physics related to the curriculum..... |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | 1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are not included in the prescribed curriculum. |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1-15 |  2theoretical+4practical | 1. Preparing the student and making him familiar with all types of scientific terminology that are used in his field of work2. Gain knowledge of basic medical physics concepts | 1. Physics of skeleton , Pressure2. Energy, work and power of the body3. Heat and cold in  medicine4. Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation, regulation of heat through the human body.5.Boyle's law, diffusion and mixing of gases.6. Physics of lung and breathing.7. Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and turbulent flow in liquid. | Lectures, discussion, and questions. | Groupwork exercises,daily (oral and written) and monthly exams. |
| 1. Course Evaluation
 |
| The semester exam, activities for students, and quick exams constitute 30%, and the end-of-course exam constitutes 70%. |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | There is no specific book |
| Main references (sources) | Introduction to Physics in Modern Medicine, (Suzanne Amador 2002), |
| Recommended books and references (scientific journals, reports...) | Any book that deals with the basics of medical physics and its applications |
| Electronic References, Websites | Any site that deals with medical physics |

**Course Description Form**

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| --- |
| 1. Course Name: General biology
 |
|  |
| 1. Course Code:
 |
|  |
| 1. Semester / Year: year 2024
 |
|  |
| 1. Description Preparation Date:20/3/2024
 |
|  |
| 1. Available Attendance Forms: 20/3/2024
 |
|  |
| 1. Number of Credit Hours (Total) / 2theory and 4practic Number of Units (Total) 6
 |
|  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Esraa Hamza jasimEmail: Esraahamza@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | **• Be able to understand the basic principles of general and life biology and its applications****• Be able to link the traumatic pain to abnormal changes in other components of the cells 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**  |
| 15 |  |  | - **Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cell****The Structure of cells , types , shape and****Movement in and out of cells: diffusion , osmosis , active transport.****Cell division: Amitosis, Mitosis and Meiosis****Nucleic acid: DNA and RNA, DNA Replication****Protein biosynthesis****Human body tissues: Epithelial tissues****Muscular and Nervous tissues****Connective tissues: Bone and cartilage****Blood ( R.B.C and WB**c) |  |  |
| 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) | -human biology -Essential cell biology |
| Main references (sources) | -The core |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| **Department of Anesthesiology**  |
| 1. Course Code:
 |
| **General Physiology** |
| 1. Semester / Year:
 |
| **Courses / second course / first stage** |
| 1. Description Preparation Date:
 |
| 12 /1 /2024 |
| 1. Available Attendance Forms:
 |
| **Theoretical and practical lectures** |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 15\*6 hours, number of units: 4 |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Mohammed Sarim HamzaEmail: mohammed.sarim@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * **Identify the principles of physiology and its relationship to other sciences.**
* **Distinguishing between the normal physiological state of the body and a pathological condition.**
* **To be able to use laboratory devices and tools.**
* **Conducting blood tests and other body fluids.....**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |  |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| firstsecondthirdfourthfifthsixthSeventhEighthninthtentheleventhtwelfththirteenthfourteenthfifteenth |  | Physiology of digestive system, organs of digestion, functionsAccessory organs of digestion and functionSteps of digestion (carbohydrate, protein, fat digestion and absorption)Urinary system, renal functions, urine formation.Organs of the urinary system and their functionRole of kidney to maintain body fluids to regulate B.Pr., acid base balanceBody temperature regulation and controlNervous system, CNS brain function and centersSpinal cord, CSF, Spinal reflexesPNS Autonomic and SensoryEndocrine system control of hormone, types and secretionHormonal secretion form different glandsReproductive system, male and female reproductive systemSkeletal system physiology.Special sense physiology (vision, hearing, smell and taste). |  |  |  |
| 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 |  |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| **Computer Fundamentals(1)** |
| 1. Course Code:
 |
| **Computer Fundamentals(1)** |
| 1. Semester / Year:
 |
| **The first stage/first semester** |
| 1. Description Preparation Date:
 |
| 2024/3/15 |
| 1. Available Attendance Forms:
 |
| Is mandatory |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 45h |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: huda noman obaiedEmail: huda.noman@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * **Special goal:**
* **Providing the student with the skills of dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.**
* **Overall goal:**
* **At the end of the academic year, the student should be able to: - Provide the student with knowledge in managing and using various computer applications.**
* **Urging the student to be creative and think about specialization projects and keep pace with developments in this field.**
* **Providing students with scientific, practical and personal skills that enable them to solve practical problems and deal with them using scientific concepts.**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |

|  |  |  |  |
| --- | --- | --- | --- |
| week | hours | Required learning outcomes | Name of the unit/topic |
| 1 | 1 theoretical + 2 practical | Bachelor's | Computer Fundamentals, computer concept, phases of the computer life cycle, development of computer generations |
| 2 | Computer advantages and areas of use. Computer classification in terms of purpose, size and type of data |
| 3 | Computer Components Computer Components The physical parts of a computer and the software entities |
| 4 | Your personal computer, the concept of computer security and software licenses |
| 5 | Computer Safety & Software License |
| 6 | Ethics of the electronic world, forms of abuse, computer security, computer privacy. |
| 7 | Computer software licenses and their types, intellectual property, electronic hacking, malware, the most important steps necessary to protect against hacking operations, computer harm to health. |
| 8 | Definition of Operating SystemsOperating system, functions, goals, classification, examples of some operating systems |
| 9 | Operating System Windows 7 Operating System |
| 10 | Desktop componentsStart menu, taskbar |
| 11 | Folders and files icons |
| 12 | Performing operations on windows desktop backgrounds |
| 13 | Control Panel Windows Control Panel "Control Category" Groups "Panel". |
| 14 | From the Defragment control panel, you can organize files inside the computer, install programs, and delete them |
| 15 |  |  | Some common conditions and settings in the computer, managing the printer, setting the time and date, maintaining the initial disks. |

 |
| 1. Course Structure

 Course evaluationDistribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. |
|  |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | * Computer basics and office applications / Part One

- Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Ziad Muhammad Abboud and others. |
| Main references (sources) | * Lectures provided by the subject teacher

Books available in the college library |
| Recommended books and references (scientific journals, reports...) | * All reputable scientific journals related to computer science

And solid scientific research published on social networks |
| Electronic References, Websites | * Internet network
 |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| **Computer Fundamentals(1)** |
| 1. Course Code:
 |
| **Computer Fundamentals(1)** |
| 1. Semester / Year:
 |
| **The first stage/first semester** |
| 1. Description Preparation Date:
 |
| 2024/3/15 |
| 1. Available Attendance Forms:
 |
| Is mandatory |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 45h |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: huda noman obaiedEmail: huda.noman@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * **Special goal:**
* **Providing the student with the skills of dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.**
* **Overall goal:**
* **At the end of the academic year, the student should be able to: - Provide the student with knowledge in managing and using various computer applications.**
* **Urging the student to be creative and think about specialization projects and keep pace with developments in this field.**
* **Providing students with scientific, practical and personal skills that enable them to solve practical problems and deal with them using scientific concepts.**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |

|  |  |  |  |
| --- | --- | --- | --- |
| week | hours | Required learning outcomes | Name of the unit/topic |
| 1 | 1 theoretical + 2 practical | Bachelor's | Computer Fundamentals, computer concept, phases of the computer life cycle, development of computer generations |
| 2 | Computer advantages and areas of use. Computer classification in terms of purpose, size and type of data |
| 3 | Computer Components Computer Components The physical parts of a computer and the software entities |
| 4 | Your personal computer, the concept of computer security and software licenses |
| 5 | Computer Safety & Software License |
| 6 | Ethics of the electronic world, forms of abuse, computer security, computer privacy. |
| 7 | Computer software licenses and their types, intellectual property, electronic hacking, malware, the most important steps necessary to protect against hacking operations, computer harm to health. |
| 8 | Definition of Operating SystemsOperating system, functions, goals, classification, examples of some operating systems |
| 9 | Operating System Windows 7 Operating System |
| 10 | Desktop componentsStart menu, taskbar |
| 11 | Folders and files icons |
| 12 | Performing operations on windows desktop backgrounds |
| 13 | Control Panel Windows Control Panel "Control Category" Groups "Panel". |
| 14 | From the Defragment control panel, you can organize files inside the computer, install programs, and delete them |
| 15 |  |  | Some common conditions and settings in the computer, managing the printer, setting the time and date, maintaining the initial disks. |

 |
| 1. Course Structure

 Course evaluationDistribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. |
|  |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | * Computer basics and office applications / Part One

- Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Ziad Muhammad Abboud and others. |
| Main references (sources) | * Lectures provided by the subject teacher

Books available in the college library |
| Recommended books and references (scientific journals, reports...) | * All reputable scientific journals related to computer science

And solid scientific research published on social networks |
| Electronic References, Websites | * Internet network
 |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Department of Anesthesia Techniques |
| 1. Course Code:
 |
| Anatomy |
| 1. Semester / Year:
 |
| Courses / second course / first stage |
| 1. Description Preparation Date:
 |
| 1-12-2024 |
| 1. Available Attendance Forms:
 |
| Theory and practical lectures |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 6\*15 hours, number of units: 4 |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Baneen Basim KadhimEmail: baneenalfatlawi@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | **• Identify the principles of anatomy and their relationship to other sciences.****• Identify the body’s systems and organ structure.****• Identify the precise structure of the organ.****• Focus on the primary information pertaining to each organ, which is represented by its composition, location, and function.....** |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |  |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| the firstthe secondthe thirdthe fourthFifthVISeventhVIIINinthThe tentheleventhtwelvethThirteenthThe tenth quarterFifteenth |  | CNS structure and functionsPNS spinal nervues Sensory and motor nerves systems GIT systemGIT system ; parts and structure of wall and stomachSalivary gland structure , pancreases and Gall BladderLiver anatomy structure and functionsUrinary system kidney , ureter , urinary bladder , urethraMuscular systemReproductive system - male genitalia . Female reproductive organsEndocrine glands- anatomy and functionEndocrine glands- anatomy and function . Special sense anatomySkeletal system anatomy . The development and inheritance |  |  |  |
| 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) | General Anatomy Text book |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |

**Course Description Form**

|  |
| --- |
| 1. Course Name: English Language
 |
|  |
| 1. Course Code:
 |
|  |
| 1. Semester / Year: first year first semester
 |
|  |
| 1. Description Preparation Date:
 |
|  |
| 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: Asst.L.Muhammad Abdel Hassan MohsenEmail: MuhammadAbdel.H@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** | 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) | No specific books |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |

**First Stage /Second Course**

**Course Description Form**

|  |
| --- |
| 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 shamsahEmail: 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 isotopesSolutions 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 bodyMetabolism of carbohydrates, blood glucose factors controlling glucose level in bloodGlucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curveLipids, classification, derived lipids, compound, lipidsLipid metabolism, lipid abnormalitiesProteins, 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 |  |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
|  Medical Physics |
| 1. Course Code:
 |
|  |
| 1. Semester / Year:
 |
|  The second course / 2023 -2024  |
| 1. Description Preparation Date:
 |
|  14/3/2024 |
| 1. Available Attendance Forms:
 |
| Class Attendance |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 2) theoretical +4 practical ) hours (weekly)= 78 hours / 4 units |
| 1. Course administrator's name (mention all, if more than one name)
 |
| 1. Name: Pro. Dr. Ali Khalaf Hasan

Email: alikh.alsinayyid@uokufa.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | 1 Identify the general concepts of medical physics2. Identify the most important branches and general specializations in medical physics -3.Identify the most important laws of physics related to the curriculum..... |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | 1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are not included in the prescribed curriculum. |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1-13 |  2theoretical+4practical | 1. Preparing the student and making him familiar with all types of scientific terminology that are used in his field of work2. Gain knowledge of basic medical physics concepts | 1. Physics of cardiovascular system 2. Laser in medicine 3. Electricity within the body 4. Application of electricity and magnetism in medicine 5. Light in medicine, sound in medicine 6. Physics of nuclear medicine, radiotherapy , radiation protection 7. Solar energy Technology8. Nanotechnology in renewable energy system9.Energy sector products using nanomaterial's10. Nanotechnology to Hydrogen production | Lectures, discussion, and questions. | Groupwork exercises,daily (oral and written) and monthly exams. |
| 1. Course Evaluation
 |
| The semester exam, activities for students, and quick exams constitute 30%, and the end-of-course exam constitutes 70%. |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | There is no specific book |
| Main references (sources) | Introduction to Physics in Modern Medicine, (Suzanne Amador 2002), |
| Recommended books and references (scientific journals, reports...) | Any book that deals with the basics of medical physics and its applications |
| Electronic References, Websites | Any site that deals with medical physics |

**Course Description Form**

|  |
| --- |
| 1. Course Name : Microbiology (2)
 |
|  |
| 1. Course Code:
 |
|  |
| 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: Asst.L.Israa Jassim HamzaEmail: IsraaJassim2020@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | **1- To be able to understand the basic principles of biology and their applications**  **2- To be able to link between the primitive and developed cells**  **3- He must have the ability to collect and process samples**  **Biological.**  **4- To be able to understand the components of the cell.** |
| 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 |  | **Bachelor's** | Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cell | Theoretical + practical | Exams |
| 2+3 |  | The Structure of cells , types , shape and size |
| 4+5 |  | Movement in and out of cells: diffusion , osmosis , active transport. |
| 6 |  | division: Amitosis, Mitosis and Meiosis |
| 7+8 |  | Nucleic acid: DNA and RNA, DNA Replication |
| 9 |  | Protein biosynthesis |
| 10+11 |  | Human body tissues: Epithelial tissues |
| 12 |  | Muscular and Nervous tissues |
| 13+14 |  | conective tissues: Bone and cartilage |
| 15 |  | ( R.B.C and WBC) and lymph |

 |
| 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) | The principle of Biology |
| Recommended books and references (scientific journals, reports...) | Books and references on Body Physiology |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| **Department of Anesthesiology**  |
| 1. Course Code:
 |
| **General Phtsiology** |
| 1. Semester / Year:
 |
| **Courses / first course / first stage** |
| 1. Description Preparation Date:
 |
| 12 /12 /2023 |
| 1. Available Attendance Forms:
 |
| **Theoretical and practical lectures** |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 15\*6 hours, number of units: 4 |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Mohammed Sarim HamzaEmail: mohammed.sarim@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * **Identify the principles of physiology and its relationship to other sciences.**
* **Distinguishing between the normal physiological state of the body and a pathological condition.**
* **To be able to use laboratory devices and tools.**
* **Conducting blood tests and other body fluids.....**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |  |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| firstsecondthirdfourthfifthsixthSeventhEighthninthtentheleventhtwelfththirteenthfourteenthfifteenth |  | Definition of physiology; cell physiology; cell membrane components and structure.Movement of fluid, solutes and gases across the cell membrane.Muscular system: types & characteristics.Contraction mechanism, fatigue, muscular painTypes of nerve cells, functions of nerve impulse, synapses and reflexesAction potential of nerve and muscle fiber.Blood; functions, component, plasma and serumRed blood cells, shape, origin, Hb structure and AnemiaW.B.Cs, platelets; functions, origin, structureBlood clotting mechanismCardiovascular system,heart valve cycle, HR conductive system.Heart sounds and murmers, ECGBlood pressureRespiratory system, Pleura, Types of mechanism of respiration.Oxygen Transporting and exchange Carbon dioxide transporting and exchange, Lung Vol. and capacity, types of Hypoxia |  |  |  |
| 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) | No specific Books |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites | Internet |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| **Computer Fundamentals(1)** |
| 1. Course Code:
 |
| **Computer Fundamentals(1)** |
| 1. Semester / Year:
 |
| **The first stage/second semester** |
| 1. Description Preparation Date:
 |
| 2024/3/15 |
| 1. Available Attendance Forms:
 |
| Is mandatory |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 45h |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: huda noman obaiedEmail: huda.noman@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * **Special goal:**
* **Providing the student with the skills of dealing with basic office**

**applications, creating office files and documents, and using** **the operating system, as well as the basics of working within** **the digital environment.*** **Overall goal:**
* **At the end of the academic year, the student should be able to:**
* **- Provide the student with knowledge in managing and using**
* **various computer applications.**
* ** Urging the student to be creative and think about specialization**
* **projects and keep pace with developments in this field.**
* ** Providing students with scientific, practical and personal skills**
* **that enable them to solve practical problems and deal with**
* **them using scientific concepts.**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |

|  |  |  |  |
| --- | --- | --- | --- |
| week | hours | Required learning outcomes | Name of the unit/topic |
|  |  |  | Microsoft 2010 Run Microsoft Word 2010 |
|  | 1 theoretical + 2 practical | Bachelor's | Microsoft Word 2010 interface |
|  |  | File tab, Home tab |
|  |  | Page Layout tab, Display tab |
|  |  | Inserting objects in Microsoft Word |
|  |  |  | Insert tab, group of pages |
|  |  |  | Tables group |
|  |  |  | Tables group |
|  |  |  | Collection of illustrations |
|  |  |  | A link group is a header and footer group |
|  |  |  | Text set, Symbols set |
|  |  |  | Additional tasks for Microsoft Word 2010 |
|  |  |  | Microsoft PowerPoint 2010, open a new file and a safe on the desktop,Adding and editing slides (title slide, title with content, subtitle, two contents, comparison, title only, blank slide, content with comment, image with comment) |
|  |  |  | Add themesMain display groupAdd animations and adjust time and repetition for entire slides and differently for each slide |
|  |  |  | Add animations to slides |

 |
| 1. Course Structure

1. Course evaluationDistribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. |
|  |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | * Computer basics and office applications / Part One

- Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Ziad Muhammad Abboud and others. |
| Main references (sources) | * Lectures provided by the subject teacher

Books available in the college library |
| Recommended books and references (scientific journals, reports...) | * All reputable scientific journals related to computer science

And solid scientific research published on social networks |
| Electronic References, Websites | * Internet network
 |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Department of Anesthesia Techniques |
| 1. Course Code:
 |
| Anatomy |
| 1. Semester / Year:
 |
| Courses / second course / first stage |
| 1. Description Preparation Date:
 |
| 1-12-2024 |
| 1. Available Attendance Forms:
 |
| Theory and practical lectures |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 6\*15 hours, number of units: 4 |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Baneen Basim KadhimEmail: baneenalfatlawi@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | **• Identify the principles of anatomy and their relationship to other sciences.****• Identify the body’s systems and organ structure.****• Identify the precise structure of the organ.****• Focus on the primary information pertaining to each organ, which is represented by its composition, location, and function.....** |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |  |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| the firstthe secondthe thirdthe fourthFifthVISeventhVIIINinthThe tentheleventhtwelvethThirteenthThe tenth quarterFifteenth |  | CNS structure and functionsPNS spinal nerves Sensory and motor nerves systemsGIT system ; parts and structure of wall and stomachSalivary gland structure , pancreases and Gall Bladder .Liver anatomy structure and functions |Urinary system kidney , ureter , urinary bladder , urethra | Muscular system .| Reproductive system - male genitalia .Female reproductive organs .Endocrine glands- anatomy and function .Endocrine glands- anatomy and function .Special sense anatomy .Skeletal system anatomy .The development and inheritance . |  |  |  |
| 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) | General Anatomy text books |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |
| 1. Course Name:
 |
| Department of Anesthesia Techniques |
| 1. Course Code:
 |
| Anatomy |
| 1. Semester / Year:
 |
| Courses / second course / first stage |
| 1. Description Preparation Date:
 |
| 1-12-2024 |
| 1. Available Attendance Forms:
 |
| Theory and practical lectures |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 6\*15 hours, number of units: 4 |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Baneen Basim KadhimEmail: baneenalfatlawi@alkafeel.edu.iq |
| 1. Course Objectives
 |
| **Course Objectives** | **• Identify the principles of anatomy and their relationship to other sciences.****• Identify the body’s systems and organ structure.****• Identify the precise structure of the organ.****• Focus on the primary information pertaining to each organ, which is represented by its composition, location, and function.....** |
| 1. Teaching and Learning Strategies
 |
| **Strategy** |  |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| the firstthe secondthe thirdthe fourthFifthVISeventhVIIINinthThe tentheleventhtwelvethThirteenthThe tenth quarterFifteenth |  | CNS structure and functions PNS spinal nervues Sensory and motor nerves systems GIT system ; parts and structure of wall and stomach  Salivary gland structure , pancreases and Gall Bladder . Liver anatomy structure and functions | Urinary system kidney , ureter , urinary bladder , urethra | Muscular system . | Reproductive system - male genitalia . Female reproductive organs . Endocrine glands- anatomy and function . Endocrine glands- anatomy and function . Special sense anatomy . Skeletal system anatomy . The development and inheritance . |  |  |  |
| 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 |  |

**Course Description Form**

|  |
| --- |
| 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 |

**Course Description Form**

|  |
| --- |
| 1. Course Name: Principles of Surgery
 |
|  |
| 1. Course Code: first
 |
|  |
| 1. Semester / Year: second
 |
|  |
| 1. Description Preparation Date:
 |
|  |
| 1. Available Attendance Forms:
 |
|  |
| 1. Number of Credit Hours (Total) / Number of Units (Total) 4
 |
|  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Muayad AlkhafajiEmail:muayadalkhafaji@alkafeek .edu.iq  |
| 1. Course Objectives
 |
| **Course Objectives** | * **The student be able to understand the basics of surgery......**
* **Be able to integrate physiology and anatomy with the basics of surgery....**
* **To be familiar with common surgical problems and how are treated....**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | To prepare the student to be familiar with the principles and basics of surgery and how these basics are related to anesthesia. |
| 1. Course Structure: lectures, seminars, and homework
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |

**Second Stage /First Course**

**Course Description Form**

|  |
| --- |
| 1. Course Name :Basics of Medicine (1)
 |
|  |
| 1. Course Code:
 |
|  |
| 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: Asst.prof.Abul kareemEmail: Abul kareem@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | 1-The student will be able to identify diseases of the respiratory system and digestive system  , kidney, liver and endocrine gland  2- Knowing the signs, tests, and laboratory diagnoses of these diseases  3- Use some appropriate treatments for each of these diseases  And ways to distinguish disease states from each other |
| 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** |
| 12 | 2 theoretical+3 practical | **Bachelor's** | Diseases due to infection/  concepts of infection major  manifestations /methods of diagnosis bacteremia/ septicemia / principles of management Diseases due to infection/ concepts of infection  major manifestations /methods of  diagnosis bacteremia/ septicemia / principles of management | Theoretical + practical | Exams |
| 3 |  | Diseases of the respiratory system-Introduction |
| 4 |  | Diseases of the respiratory system-Introduction |
| 5 |  | major manifestations /investigations/  resp. function tests |
| 6 |  | Diseases of the C.V.S. / introduction/ major manifestation investigations |
| 7 |  | Diseases of the C.V.S. / introduction/ major manifestation investigations |
| 8 |  | Principles of electrocardiography/ normal ECG/S. Tachycardia/ S. Bradycardia/ S. arrhythmi |
| 9 |  | AIDS |
| 10 |  | Diseases of the GIT/ Introduction/ major manifestation/ Investigations |
| 11 |  | Diseases of the GIT/ Introduction/ major manifestation/ Investigations |
| 12 |  | Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations |
| 13 |  | Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations |
| 14 |  | Diseases of the kidney / introduction major manifestations / investigations |
| 15 |  | Diseases of the kidney / introduction major manifestations / investigations |

 |
| 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) | 1-Oxford hand book of clinical medicine, sixth edition, Longmore, Murray,2004 Harrisons principle of internal medicine.2  2th edition 2018 |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name:Pharmacology (1)
 |
|  |
| 1. Course Code:
 |
|  |
| 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.Salim faez KadimEmail: .Salim.F.Kadim @gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | The general goal is to familiarize the student with medications and emphasize the medications used in anesthesia Own goalsAt the end of the year, the student will be able to: -1- Identify the basics of how the drug works, the ways it affects the body, and how the body is affected by it -2- Distinguish the medications used for each of the body’s systems, such as the circulatory and respiratory systems - Knowledge of the medications used in general and spinal anesthesia. |
| 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** |
| 12 | 2theoretical+3practical | **Bachelor's** | Principles of Drug Therapy. Pharmacokinetics; Absorption, distribution, metabolism and excretion of the drugs. Pharmacodynamics; Drug-receptors interaction. Efficacy, potency, agonists, antagonists Cholinergic agonists and antagonists | Theoretical + practical | Exams |
| 3 |  | Adrenergic agonists and adrenergic antagonists |
| 4 |  | Drugs affecting cardiovascular system: Antihypertensive drugs- Heart Failure- |
| 5 |  | Drugs affecting cardiovascular system:  Anti-arrhythmic Antianginal drugs |
| 6 |  | Diuretics |
| 7 | 1+2 | Antihistamines |
| 8 | 1+2 | Drugs for Disorders of the  Respiratory System |
| 9 | 1+2 | Drugs for Disorders of the  Respiratory System |
| 10 | 1+2 | Drugs for anemia |
| 11 | 1+2 | Anticoagulants and Antiplatelet Agents |
| 12 | 1+2 | Skeletal muscle relaxants |
| 13 | 1+2 | Local anesthetics |
| 14 | 1+2 | General anesthetics |
| 15 | 1+2 | General anesthetics |

 |
| 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) | Essentials of Medical Pharmacology Seventh Edition KD -1 TRIPATHI MD Ex-Director-Professor and  Head of Pharmacology, 2013  -MEDICAL PHARMACOLOGY& THERAPEUTICS2  Fifth Edition,Derek G. Waler BSc (HONS),DM,  MBBS (HONS), FRCP University of Southampton, Southampton, United Kingdom |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name: Basics of anesthesia equipment Technique (1)
 |
|  |
| 1. Course Code:
 |
|  |
| 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: Asst.Prof.Ali Najeh AliEmail: AliNajehAli @gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | Objectives of the course: Teaching the course aims to introduce the student to the basics of using and maintaining devices  And the modern technologies used in it:  Special objectives:  1-Learn about the basics of how anesthesia machines work  2- Dealing with all patient monitoring devices  3- Sustaining and maintaining the devices  4-Knowledge of modern techniques used in anesthesia devices |
| 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** |
| 12+3 | 2 theoretical + 3 practical | **Bachelor's** | Operating room design and functioningCannula and giving set and device for  intravenous infusion | Theoretical + practical | Exams |
| 4+5 |  | Physical principles: behavior of molecules of solid and liquid, heat and temperature  Physical principles: properties of gases, temperature, and flow of fluid through tubes and orifice |
| 6+11 |  | Endotracheal tube (ordinary tube) , laryngoscope, airway  (oropharyngeal and  nasopharyngeal), tracheostomy, facemask |
| 12+15 |  | Breathing system and their component, definition, classification, working principle |

 |
| 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) | Anesthesia equipment, principle and application, Jan-2 Ehrenwerth, MD, 2"d edition  The MGH Textbook of Anesthetic Equipment, Warren S-1 Sandberg, MD, PhD 2"d edition |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name: Applied Physiology(1)
 |
|  |
| 1. Course Code:
 |
|  |
| 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.Mohanad Edrees yahiaEmail: MohanadEdrees2015@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | The general goal: At the end of the academic year, the student will be able to understand the functions of the various body systems Management of emergency and medical cases and their relationship to anesthesia. Specific objectives: The student will be able to: -1 The student learns about the importance and function of some of the body’s vital systems, such as the respiratory and cardiovascular systems And its relationship with the work of anesthesia -2 To be able to identify some disorders and pathological conditions in these vital systems and their effect on them The nature of anesthesia. -3 To be able to use equipment and tools in the laboratory. -4 To be able to perform various clinical examinations of the body. |
| 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** | electrical components and activity of the heart | Theoretical + practical | Exams |
| 2 | 1+2 | the cardiac action potential in ventricular muscle andpacemaker |
| 3 | 1+2 | tissues contractile cardiomyocytes and excitation-contraction |
| 4 | 1+2 | coupling |
| 5 | 1+2 | ECG and arrhythmia |
| 6 | 1+2 | cardiac cycle |
| 7 | 1+2 | heart sound and waveforms  generated during cardiac cycle |
| 8 | 1+2 | the left ventricle pressure-volume loop |
| 9 | 1+2 | cardiac innervation and  control of heart rate |
| 10 | 1+2 | cardiac reflexes |
| 11 | 1+2 | systemic circulation |
| 12 | 1+2 | blood pressure regulation |
| 13 | 1+2 | physiology of microcirculation (starling law of capillary) venous |
| 14 | 1+2 | circulation and venousreturn |
| 15 | 1+2 | coronarycirculation spirometeryandlungvolumes |

 |
| 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) | Pharmacology and physiology for anesthesia,-1foundation and clinical application, 2nd edition, Hugh C. Hemmings, Jr., MD, PhD, FRCA, 2013Pharmacology and physiology ni anesthetic practice-2, fifth edition, Pamela Flood, MD, MA, 2015 |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name: Basics of Anesthesia (1)
 |
|  |
| 1. Course Code:
 |
|  |
| 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: Asst.Prof.Ali Najeh AliEmail: AliNajehAli2020@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | Provide an overview of the history of anesthesia and its types Handling the patient before anesthesia. Knowledge of all types of narcotic substances. Knowing how to use some equipment for anesthesia and operations |
| 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** | History of anesthesia and  introduction +scope of anesthesiology | Theoretical + practical | Exams |
| 2 | 1+2 | Choice of anesthetic technique |
| 3 | 1+2 | Pre anaesthetic visit and assessment |
| 4 | 1+2 | Premedication aims and  therapeutic management |
| 5 | 1+2 | General pharmacology |
| 6 | 1+2 | General pharmacology |
| 7 | 1+2 | Inhalational anaesthetic agent (in details) |
| 8 | 1+2 | Inhalational anaesthetic agents (in details) |
| 9 | 1+2 | Inhalational an aesthetic agents cont.. |
| 10 | 1+2 | Inhalational an aesthetic agents cont.. |
| 11 | 1+2 | Intravenous an aesthetic agents (in details) |
| 12 | 1+2 | Intravenous an aesthetic agents (in details) |
| 13 | 1+2 | Intravenous an aesthetic agents cont.. |
| 14 | 1+2 | Muscle relaxants (in details) & reversal |
| 15 | 1+2 | Muscle relaxants (in details) & reversal |

 |
| 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) | Fundamental of anaesthesia,1  fourth edition, Ted Lin, Tim Smith, and Colin Pinnock Lecture note on clinical anaesthesia-2 , 2^\* edition CARL GWINNUTT, 2004  3-Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013  .Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. . |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Medical terms |
| 1. Course Code:
 |
|  |
| 1. Semester / Year:
 |
| 1st 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.zahraa Abdul salamEmail:zahraa@alkafeel.edu iq |
| 1. Course Objectives
 |
| **Course Objectives** | **The objectives of the study subject are for the student to be able to distinguish roots and suffixes And prefixes and word endings for medical terms** |
| 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 |  | **Bachelor's** | Introduction-structural analysis Basic rules of medical word Building | Theoretical + practical | Exams |
| 2 |  | Major suffixes- suffixes denoting a state or condition |
| 3 |  | Major suffixes-suffixes denoting medical actions |
| 4 |  | Prefixes- prefixes of No.& measures |
| 5 |  | Prefixes- prefixes of type Roots |
| 6 |  | Word terminals Conditions |
| 7 |  | The body as a whole. Skin & its appendages |
| 8 |  | Gastrointestinal Tract Respiratory system |
| 9 |  | Cardiovascular System Blood & lymphatic system |
| 10 |  | Musculoskeletal system Urogenital system. |
| 11 |  | Endocrine system |
| 12 |  | Nervous system |
| 13 |  | Special senses |
| 14 |  | Oncology |
| 15 |  | Speciality related termes |

 |
| 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) | The principle of Medical terms |
| Recommended books and references (scientific journals, reports...) | Books and references on Medical terms |
| Electronic References, Websites | Internet network |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Baath Party crimes |
| 1. Course Code:
 |
|  |
| 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: Asst.L.Moatasem Rabee HamzaEmail: MoatasemRHamza2015@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | **The objectives of the study material are to make the student aware of the heinous crimes committed by the henchmen of the defunct Baath Party** |
| 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 | 2 | **Bachelor's** | A glimpse into Iraq's modern history | Theoretical  | Exams |
| 2 |  | A glimpse into the history of the Baath Party |
| 3 |  | Violation of rights and freedoms |
| 4 |  | The impact of the Baathist regime’s behaviors on society |
| 5 |  | Psychological mechanisms in controlling judgment |
| 6 |  | The transitional period and the fight against tyranny |
| 7 |  | Social mechanisms in controlling governance |
| 8 |  | The Baath Party’s position on religion |
| 9 |  | Culture, media, and the militarization of society |
| 10 |  | Culture, media, and the militarization of society |
| 11 |  | Use of internationally prohibited weapons |
| 12 |  | scorched earth policy |
| 13 |  | Drying of marshes and forced displacement |
| 14 |  | Destruction of the agricultural and animal environment |
| 15 |  | 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) | Platform for the crimes of the defunct Baath Party (Ministerial Book) |
| Main references (sources) | The principle of biostatistics |
| Recommended books and references (scientific journals, reports...) | Books and references on statistics |
| Electronic References, Websites | Internet network |

 **Second Stage /Second Course**

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Basic of Anesthesia (2) |
| 1. Course Code:
 |
|  |
| 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: Asst.Prof.Ali Najeh AliEmail: AliNajehAli2020@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | Learn about all anesthesia medications and their uses Able to deal with some anesthesia and recovery devices. Resuscitate the patient. The ability to manage a patient when an emergency occurs. |
| 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** | Drugs used in premedication &sedative, analgesic drugs in details. | Theoretical + practical | Exams |
| 2 | 1+2 | Drugs used in premedication &sedative, analgesic drugs in details. |
| 3 | 1+2 | Drugs used in premedication &sedative, analgesic drugs in details. |
| 4 | 1+2 | An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia] |
| 5 | 1+2 | An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia] |
| 6 | 1+2 | Intravenous fluid type and usage. |
| 7 | 1+2 | Intravenous fluid type and usage. |
| 8 | 1+2 | Blood and blood product |
| 9 | 1+2 | Blood and blood product |
| 10 | 1+2 | Surgical position and their complications |
| 11 | 1+2 | Surgical position and their complications |
| 12 | 1+2 | Cardiopulmonary resuscitation and CPR |
| 13 | 1+2 | Cardiopulmonary resuscitation and CPR |
| 14 | 1+2 | Intraoperative patient monitoring |
| 15 | 1+2 | Safety measures in operating room |

 |
| 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) | Fundamental of anaesthesia,1 fourth edition, Ted Lin, Tim Smith, and Colin Pinnock Lecture note on clinical anaesthesia-2  2^\* edition CARL GWINNUTT, 2004  3-Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 .Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. . |

**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| principle of Internal Medicine |
| 1. Course Code:
 |
|  |
| 1. Semester / Year: First Semester
 |
|  |
| 1. Description Preparation Date:
 |
| 13-3-2024 |
| 1. Available Attendance Forms:
 |
| Lecture and Lab attendance  |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 4 per week Total unit 30 Lecture 30 Lab  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Hussein Aziz Naser Email: dr\_hussein\_88@yahoo.comAbdulkareem Al Radhi email @ABDUL9980  |
| 1. Course Objectives
 |
| **Course Objectives** | **Understand clinical features and diagnosis of important diseases looking for common social medical problemsand understand the important medical terms and be aware of the responsibility he may face in futture** |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | Student can make differences between the different diseases and to aware of serious symptoms and signs and to knowHow investigations can help in diagnosis |
| 1. Course Structure
 |
| **Week****1**  | **Hours****4**  | **Required Learning** **Introduction to infectious diseases** | **Unit or subject** **Infection** | **Learning** **Lecture and** **Lab** | **Evaluation** **test** |
|  23456789 101112131415 | 44444444 444444 | Diagnostic testBacteramia septicemiaIntroduction toRespiratory diseasesMajor features of respiratorydiseasesDiagnostic investigation andPulmonary functTestIntroduction to CVSFeatures of CVDInvestigationsECG PrinciplesAIDSIntroduction to GIT DiseasesFeatures of GITDiseases and investigationsLiver diseases Bilirubin metabolismFeatures of liverDiseases and investigationsIntroduction to kidney diseasesFeatures andInvestigations in renal diseases | InfectionRespiratory RespiratoryRespiratory CardiologyCardiologyCardiologyInfection Gastroenterology GastroenterologyGastoenterologyGastroenterologyRenal Renal  | Lecture and Lab Lecture with Lablecturewith Lablecture and lab lectureand Lablecture andLabLecture Lecture Lecture andLabLectureand Lablecture andlab lecture andlab lecture and lab lecture and lab  | Home work TestOral test Exam Test Presentation groupTestOral test Tests Test Presentation groupTestOral test TestTestGroupPresentation  |
| 1. Course Evaluation
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| Evaluation presentation and seminar 40% tests examination 30% Oral Examination 30% |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | Oxford text book of Medicine |
| Main references (sources) | Davidson principle and practice of Medicine |
| Recommended books and references (scientific journals, reports...) | Medicine Myo Clinic  |
| Electronic References, Websites | Use e medicine and share slides |

**Course Description Form**

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| 1. Course Name:
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| Pharmacology (2) |
| 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.Salim Faez KadimEmail: SalimFkadim2015@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | The general goal is to familiarize the student with medications and emphasize the medications used in anesthesia Special goals: At the end of the year, the student will be able to:1. Identify the use of different groups of medications. 2. Knowing the side effects of medications and the effect of high doses on the body (toxicology) .3. Distinguish the different types of antibiotics and their uses. |
| 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

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| --- | --- | --- | --- | --- | --- |
| **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** |
| 12 | 2theoretical + 3 practical | **Bachelor's** | Hypnotic and sedative drugsHypnotic and sedative drugs | Theoretical + practical | Exams |
| 3 |  | Narcotic (Opioid), analgesic |
| 4 |  | Analgesic, antipyretic an anti-inflammatory agents |
| 5 | 1+2 | Analgesic, antipyretic an anti-inflammatory agents |
| 6 | 1+2 | Gastrointestinal and Antiemetic Drugs |
| 7 | 1+2 | Gastrointestinal and Antiemetic Drugs |
| 8 | 1+2 | Drugs for Diabetes |
| 9 | 1+2 | Adrenal hormones Corticosteroids- -Inhibitors of adrenocorticoid biosynthesis or function |
| 10 | 1+2 | Antimicrobial agents: Cell wall inhibitors- Protein synthesis .inhibitor- Quinolones and folic acid antagonists- |
| 11 | 1+2 | Antimicrobial agents: Cell wall inhibitors- Protein synthesis .inhibitor- Quinolones and folic acid antagonists- |
| 12 | 1+2 | Antifungal drugs- Antiviral drugs- |
| 13 | 1+2 | Anti-Epileptic drugs |
| 14 | 1+2 | Anti-Parkinson's drugs |
| 15 | 1+2 | Clinical toxicology |

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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) | Essentials of Medical Pharmacology Seventh Edition KD -1 TRIPATHI MD Ex-Director-Professor and  Head of Pharmacology, 2013 -MEDICAL PHARMACOLOGY& THERAPEUTICS2 Fifth Edition,Derek G. Waler BSc (HONS),DM, MBBS (HONS), FRCP University of Southampton, Southampton, United Kingdom |
| Main references (sources) | The principle of Pharma |
| Recommended books and references (scientific journals, reports...) | Books and references on pharmacology |
| Electronic References, Websites | Internet network |

**Course Description Form**

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| 1. Course Name:
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| Applied physiology (2) |
| 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:Mohahnad Yahia Edrees Email: Mohanadyedrees2015@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | Objectives of the academic subject: General objective: At the end of the academic year, the student will be able to...  Understanding the functions of different body systems and dealing with situations  Emergency and pathological cases and their relationship to anesthesia  Special goals:  1- The student learns about the importance and function of some vital body systems, such as the respiratory system  And the heart and blood vessels and their relationship with anesthesia  2- To be able to identify some disorders and pathological conditions in these vital organs and their effects  On the nature of anesthesia  3- To be able to use devices and tools in the laboratory  4- To be able to perform various clinical examinations of the body. |
| 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

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| --- | --- | --- | --- | --- | --- |
| **Week** | **Hours** | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** |
| 1 | 2 theoretical+ 3 practical | **Bachelor's** | Lung mechanics  ( compliance,resistant) | Theoretical + practical | Exams |
| 2 |  | ventilation perfusion |
| 3 |  | preoxygenation,apnenic oxygenation and diffusion hypoxia |
| 4 |  | transport of gases(02,CO2) |
| 5 |  | systemic effect of hypoxia and hyperoxia |
| 6 |  | control of ventilation |
| 7 |  | non respiratory function of lung |
| 8 |  | preoperative smoking and physiological effects of cessation of smoking |
| 9 |  | thermoregulatory response to prevent hypothermia and hyperthermia |
| 10 |  | heat loss during anaesthesi |
| 11 |  | body fluids and electrolvtes |
| 12 |  | vomiting and dehvdration |
| 13 |  | acid base balance |
| 14 |  | cerebral physiology |
| 15 |  | physiological differences between child  and adult in general |

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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) | Pharmacology and physiology for anesthesia,-1  foundation and clinical application, 2nd edition, Hugh C. Hemmings, Jr., MD, PhD, FRCA, 2013 Pharmacology and physiology ni anesthetic practice-2 fifth edition, Pamela Flood, MD, MA, 2015 |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites | Internet network |

**Course Description Form**

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| 1. Course Name:
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| Basics of anesthesia Equipment Technique (2) |
| 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: Asst.Prof.Ali Najeh AliEmail: AliNajehAli2020@gmail.com |
| 1. Course Objectives
 |
| **Course Objectives** | Teaching the subject aims to introduce the student to the basics of using devices, maintaining them, and modern technologies Used in: Special goals: At the end of the year, the student should be able to: - -1- Identify the sources of pollution in operating theaters and methods of treating them. 2- He is able to deal with methods of sterilizing and maintaining some devices used in anesthesia. - He is able to know the basis of work, problems, and methods of using equipment and methods in anesthesia The operating rooms include fluid administration devices, anesthesia gas fumigation devices, and measuring devices Gas pressure and flow measurement |
| 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+23+4 | 2 theoretical + 3 practical | **Bachelor's** | Atmospheric pollution, measurement and control of pollution, scavenging system  Infusion equipment: patient  control analgesia, filtration, auto transfusion | Theoretical + practical | Exams |
| 5+8 |  | The supply of anaesthetic gases, cylinders, oxygen concentrator Medical gas services, bulk storage,  and supply of gases, piped medical vacuum, electrical supply Distribution of pipework, terminal outlet Flexible pipeline, test and check for medical gas pipeline |
| 9+10 |  | Vaporizer: law of vaporization, vaporizing system, types of vaporizers Factors affecting vaporizer performance, calibration of vaporizer, filling of vaporizer  |
| 11 |  | Flowmeter and flow control(needle) valves |
| 12+13 |  | Pressure gauge and reducing valve |
| 14+15 |  | Cleaning and sterilization: decontamination, disinfection and sterilization |

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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) | Text books of anesthesia Equipment Technique |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites | Internet network |

**Course Description Form**

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| --- |
| 1. Course Name:
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| Principles of Surgery |
| 1. Course Code: second
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| 1. Semester / Year: second
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| 1. Description Preparation Date:
 |
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| 1. Available Attendance Forms:
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|  |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
|  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Muayad AlkhafajiEmail: muayadalkhafaji@alkafeek .edu.iq  |
| 1. Course Objectives
 |
| **Course Objectives** | * **The student be able to understand the basics of surgery......**
* **Be able to integrate physiology and anatomy with basics of surgery....**
* **To be familiar with common surgical problems and how are treated....**
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | To prepare the student to be familiar with the principles and basics of surgery and how these basics are related to anesthesia. |
| 1. Course Structure: lectures, seminars, and homework
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 123456789101112131415 | 2 lectures2 practices | Bachelor | 1- Principles of pediatric surgery.2- Warfare surgery.3- Day case surgery.4- Reaction of body to injury.5- Infection of joint and bone.6 Ulcer, sinuses, fistula 7- Type of surgical disease (hereditary, congenital, acquired).8- Sterile precaution and AIDS.9- Calcium metabolism, calcification.10 Coagulopathy and blood dyscrasia in surgery. 11- Specific infection.12- Types of bacteria (surgical microbiology.13- Venous disease, thrombophlebitis, and venous thrombosis.14-Oncology.15- Abortion, CS, hysterectomy.  | Lectures and practice | Ex  ams |
| 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  |
|  |
| Required textbooks (curricular books, if any) | 1-Basic Surgical Technique. Fiona Myient Seventh edition.2-Textbook of surgery. COURTNEY M. TOWNSEND, JR., MD,21 edition, 2022 |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |

**Course Description Form**

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| 1. Course Name:
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| Statistics |
| 1. Course Code:
 |
|  |
| 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 HassoonEmail: 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 |

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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) | * 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 |