وصف المواد الدراسية

قسم تقنيات التخدير والعناية المركزة

لجميع المراحل

وصف المواد الدراسية

المرحلة الاولى

Anatomy

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Alelem University College
2. University Department/Centre	Anesthesia and intensive care
3. Course title/code	Anatomy
4. Programme(s) to which it contributes	Google meet, Edmodo, telegram
5. Modes of Attendance offered	Weekly (theory + practical)
6. Semester/Year	Year
7. Number of hours tuition (total)	60 hr
8. Date of production/revision of this specification	8/6//2021
9. Aims of the Course	
To inform the students about all the organs of the human beng from anatomic and showing the relationship between different organs the specific aims the student know every organ of the body from first inspection by naked eye and using microscope to differentiate the different tissue and cell	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1. To inform the students the relation between the anatomy and anesthesia A2.to inform the student the relation between anatomy and clinical cases disease A3. To inform the student the relation of different disease and anatomy A4. A5. A6 .
B. Subject-specific skills B1. To know general anatomy of the human being B2. The student know different body system anatomically and relation between organs and body surface through data show and anatomical spacemen in the laboratory B3.
Teaching and Learning Methods
By theocratical and practical lectures The student viewing the anatomical spacemen in laboratory of all internal organs and skeleton under the supervision of senior
Assessment methods
Monthly theory and practical exam
C. Thinking Skills C1. By suggestion questions through the lecture C2. Home work C3. C4.
Teaching and Learning Methods
Present the lecture by the senior through showing the information in addition to explanation in laboratory anatomy
Assessment methods

Quick exam and monthly exam

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. Identify the students the basic anatomy of organ study and body system theoretically and practically D2.aquire the students the ability to identify body organ and its relation with body surface D3. D4.

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Snell
Special requirements (include for example workshops, periodicals, IT software, websites)	Gray’s anatomy
Community-based facilities (include for example, guest Lectures , internship , field studies)	Edmodo, google meet

13. Admissions	
Pre-requisites	
Minimum number of students	25
Maximum number of students	50

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2 hr	Understanding lecture	Introduction, anatomical term	Lecture	Quick exam
2	2 hr	Understanding lecture	Body cavities and its organs	Lecture	Quick exam
3	2 hr	Understanding lecture	Superficial anatomy of human body	Lecture	Quick exam
4	2 hr	Understanding lecture	Human body tissue type and characteristic	Lecture	Quick exam
5	2 hr	Understanding lecture	Skin anatomy and its function skin color	Lecture	Quick exam
6	2 hr	Understanding lecture	General skeletal structure number and its function	Lecture	Quick exam
7	2 hr	Understanding lecture	Vertebral column structure and its function	Lecture	Quick exam
8	2 hr	Understanding lecture	Diaphragm and abdominal wall muscle	Lecture	Quick exam
9	2 hr	Understanding lecture	anatomy of the heart, wall, valve and its function	Lecture	Quick exam
10	2 hr	Understanding lecture	structure of blood vessels wall arteries, veins and capillaries	Lecture	Quick exam
11	2 hr	Understanding lecture	lymphatic system-lymph glands	Lecture	Quick exam
12	2 hr	Understanding lecture	respiratory system-upper respiratory tract	Lecture	Quick exam
13	2 hr	Understanding lecture	respiratory system- lower respiratory tract	Lecture	Quick exam
14	2 hr	Understanding lecture	alveoli-lungs-pleural activity	Lecture	Quick exam
15	2 hr	Understanding lecture	Revision	Lecture	Quick exam
16	2 hr	Understanding lecture	CNS structure and functions	Lecture	Quick exam
17	2 hr	Understanding lecture	spinal nerves PNS	Lecture	Quick exam
18	2 hr	Understanding lecture	Sensory and motor nerves system	Lecture	Quick exam

19	2 hr	Understanding lecture	GIT system; parts and structure of wall and stomach	Lecture	Quick exam
20	2 hr	Understanding lecture	salivary gland structure, pancreases and gall bladder	Lecture	Quick exam
21	2 hr	Understanding lecture	liver anatomy structure and functions	Lecture	Quick exam
22	2 hr	Understanding lecture	urinary system kidney, ureter, urinary bladder, urethra	Lecture	Quick exam
23	2 hr	Understanding lecture	Revision	Lecture	Quick exam
24	2 hr	Understanding lecture	Reproductive system male genitalia	Lecture	Quick exam
25	2 hr	Understanding lecture	Female reproductive organs.	Lecture	Quick exam
26	2 hr	Understanding lecture	Endocrine gland anatomy and function	Lecture	Quick exam
27	2 hr	Understanding lecture	Endocrine gland anatomy and function	Lecture	Quick exam
28	2 hr	Understanding lecture	Ear anatomy	Lecture	Quick exam
29	2 hr	Understanding lecture	Ear anatomy	Lecture	Quick exam
30	2 hr	Understanding lecture	Revision	Lecture	Quick exam

Computing

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Alelem University
2. University Department/Centre	Department of Anesthesia and Intensive Care
3. Course title/code	Computing
4. Programme(s) to which it contributes	Word-PowerPoint (Computer Skills 1) Level One
5. Modes of Attendance offered	Virtual (online) / In person
6. Semester/Year	First Semester / 2020-2021
7. Number of hours tuition (total)	30 hours Theoretical study- 30 hours practical study/ Per Course
8. Date of production/revision of this specification	4-6-2021
9.Aims of the Course	
Providing students with basic information about computer components, basic	
principles of computer science, and its possible use in conducting nursing	

medical, accounting and engineering scientific research-Students in this semester
are taught through theoretical and practical sessions to use computers and access
electronic programs

10· Learning Outcomes, Teaching ,Learning and Assessment Methods
• Knowledge and Understanding A1. Learning about and identifying computer components A2. Identifying and learning programs used for diagrams, images, and shapes A3. Identifying and learning the use of basic computer programs A4. A5. A6.
B. Subject-specific skills B1.Using the computer's basic programs for scientific purposes B2.Using taskbars for saving and archiving scientific programs B3.Using the computer to schedule lectures
Teaching and Learning Methods
Use of the following programs (Word / PowerPoint)
Assessment methods
13% Theoretical- 7% Practical- 5% Oral and is calculated according to the marks of (Quiz-monthly exams-attendant exams-practical exams-reports-oral exams)
C. Thinking Skills C1. Applying computer programs for precise results C2. Use of results in scientific research C3.Using computers in data analysis C4.
Teaching and Learning Methods

Use of the following programs (Word / PowerPoint)
Assessment methods
13% Theoretical- 7% Practical- 5% Oral and is calculated according to the marks of (Quiz-monthly exams-attendant exams-practical exams-reports-oral exams)

D. General and Transferable Skills (other skills relevant to employability and personal development) D1.The capability of using computers to prepare researches and reports D2.The capability of analyzing programs D3. D4.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
(1-2-3)	2 Hours Theoretical- 2 Hours Practical/ Per Week	Identifying computer components and their use	Computer Basics	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral
(4-5)	2 Hours Theoretical- 2 Hours Practical/ Per Week	Accessing Windows	Accessing Word	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral
(6-7)	2 Hours Theoretical- 2 Hours Practical/ Per Week	Using Word	Using Word	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral
(8-9)	2 Hours Theoretical- 2 Hours Practical/ Per Week	(PowerPoint) Basics	Understanding PowerPoint	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral
(10-11-12)	2 Hours Theoretical- 2 Hours Practical/ Per Week	Using PowerPoint	Understanding PowerPoint	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral
(13-14-15)	2 Hours Theoretical- 2 Hours Practical/ Per Week	(PowerPoint) Sheets	Applications of PowerPoint	Theoretical/Practical	Theoretical exam-Practical exam-Reports-Monthly-Quiz-Oral

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Basic principles of using computers for beginners- Computer skills 1
Special requirements (include for example workshops, periodicals, IT software, websites)	Workshops for lectures on Computer Programs
Community-based facilities (include for example, guest Lectures , internship , field studies)	Hosting computer professors; staff or guests to give lectures

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

حقوق انسان

نموذج وصف المقرر

وصف المقرر

يوفر وصف المقرر هذا ايجازا مقتضيا لاهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنا عما اذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة . تعلولابد من الربط بينها وبين وصف البرنامج .

١. المؤسسة التعليمية	كلية مدينة العلم الجامعة
٢. القسم العلمي / المركز	تقنيات التخدير والعناية المركزه
٣. اسم / رمز المقرر	حقوق الانسان والديمقراطية
٤. اشكال الحضور المتاحة	حضور يومي
٥. الفصل / السنة	سنوي
٦. عدد الساعات الدراسية (الكلي)	٦٠ ساعة
٧. تاريخ اعداد هذا الوصف	١ / ٩ / ٢٠١٧

٨. اهداف المقرر

ان يكون الطالب في نهاية العام قادرا على :

١. التعرف على المراحل التاريخية التي مرت بها حقوق الانسان عبر التشريعات الدينية والقانونية.
٢. ادراك مفهوم الحريات الشخصية والعامة وفق الشرائع الدينية والدساتير والقوانين.
٣. فهم المساواة على اساس الجنس والمعتقد والعنصر.
٤. استيعاب مفاهيم الديمقراطية.

١٠. مخرجات المقرر وطرائق التعليم والتعلم والتقييم
أ. الاهداف المعرفية أ١. أ٢. أ٣. أ٤. أ٥. أ٦.
ب. الاهداف المهارتية الخاصة بالمقرر ب١. ب٢. ب٣. ب٤.
طرائق التعليم والتعلم
طرائق التقييم
ج. الاهداف الوجدانية والقيمية ج١. ج٢. ج٣. ج٤.
طرائق التعليم والتعلم
طرائق التقييم

د. المهارات العامة والتأهيلية المنقولة (المهارات الاخرى المتعلقة بقابلية التوظيف والتطور الشخصي)
د١.
د٢.
د٣.
د٤.

١١. بنية المقرر

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة / أو الموضوع	طريقة التعليم	طريقة التقييم
١	ساعتان	الفهم والاستيعاب	حقوق الانسان ، تعريفها ، واهدافها حقوق الانسان في الحضارات القديمة وخصوصا حضارة وادي الرافدين	النقاش والحوار	الامتحان الشفوي والتحريري
٢	ساعتان	الفهم والاستيعاب	حقوق الانسان في الشرائع السماوية مع التركيز على حقوق الانسان في الاسلام	النقاش والحوار	الامتحان الشفوي والتحريري
٣	ساعتان	الفهم والاستيعاب	حقوق الانسان في التاريخ المعاصر والحديث: الاعتراف الدولي بحقوق الانسان منذ الحرب العالمية الاولى وعصبة الامم المتحدة.	النقاش والحوار	الامتحان الشفوي والتحريري
٤	ساعتان	الفهم والاستيعاب	الاعتراف الاقليمي بحقوق الانسان: الاتفاقية الاوربية لحقوق الانسان ١٩٥٠، الاتفاقية الامريكية لحقوق الانسان ١٩٦٩، الميثاق الافريقي لحقوق الانسان ١٩٨١، الميثاق العربي لحقوق الانسان ١٩٩٤.	النقاش والحوار	الامتحان الشفوي والتحريري
٥	ساعتان	الفهم والاستيعاب	المنظمات غير الحكومية وحقوق الانسان (اللجنة الدولية للصليب الاحمر، منظمة العفو الدولية، منظمة مراقبة حقوق الانسان، المنظمات الوطنية لحقوق الانسان)	النقاش والحوار	الامتحان الشفوي والتحريري
٦	ساعتان	الفهم والاستيعاب	حقوق الانسان في الدساتير العراقية بين النظرية والواقع	النقاش والحوار	الامتحان الشفوي والتحريري
٧	ساعتان	الفهم والاستيعاب	العلاقة بين حقوق الانسان والحريات العامة: ١- في الاعلان العالمي لحقوق الانسان ٢- في المواثيق الاقليمية والدساتير الوطنية	النقاش والحوار	الامتحان الشفوي والتحريري
٨	ساعتان	الفهم والاستيعاب	حقوق الانسان الاقتصادية والاجتماعية والثقافية وحقوق الانسان المدنية والسياسية	النقاش والحوار	الامتحان الشفوي والتحريري
٩	ساعتان	الفهم والاستيعاب	حقوق الانسان الحديثة: الحقائق في التنمية ، الحق في البيئة النظيفة، الحق في التضامن، الحق في الدين	النقاش والحوار	الامتحان الشفوي والتحريري
١٠	ساعتان	الفهم والاستيعاب	ضمانات احترام وحماية حقوق الانسان على الصعيد الوطني، الضمانات في الدستور والقوانين، الضمانات في مبدأ سيادة القانون.	النقاش والحوار	الامتحان الشفوي والتحريري

		الضمانات في الرقابة الدستورية، الضمانات في حرية الصحافة والرأي العام، دور المنظمات غير الحكومية في احترام وحماية حقوق الانسان			
١١	ساعتان	الفهم والاستيعاب	ضمانات واحترام وحماية حقوق الانسان على الصعيد الدولي: – دور الامم المتحدة ووكالاتها المتخصصة في توفير الضمانات – دور المنظمات الاقليمية (الجامعة العربية، الاتحاد الاوربي، الاتحاد الافريقي، منظمة الدول الامريكية ، منظمة اسيان). دور المنظمات الدولية الاقليمية غير الحكومية والرأي العام في احترام وحماية حقوق الانسان.	النقاش والحوار	الامتحان الشفوي والتحريري
١٢	ساعتان	الفهم والاستيعاب	النظرية العامة للحريات: اصل الحقوق والحريات، موقف المشروع من الحقوق والحريات المعلنة، استخدام مصطلح الحريات العامة.	النقاش والحوار	الامتحان الشفوي والتحريري
١٣	ساعتان	الفهم والاستيعاب	القاعدة الشرعية لدولة القانون.	النقاش والحوار	الامتحان الشفوي والتحريري
١٤	ساعتان	الفهم والاستيعاب	تنظيم الحريات العامة من قبل السلطات العامة.	النقاش والحوار	الامتحان الشفوي والتحريري
١٥	ساعتان	الفهم والاستيعاب	المساواة: التطور التاريخي لمفهوم المساواة التطور الحديث لفكرة المساواة – المساواة بين الجنسين. المساواة بين الافراد حسب معتقداتهم وعنصرهم.	النقاش والحوار	الامتحان الشفوي والتحريري
١٦	ساعتان	الفهم والاستيعاب	الديمقراطية– تعريفها – انواعها	النقاش والحوار	الامتحان الشفوي والتحريري
١٧	ساعتان	الفهم والاستيعاب	مفاهيم الديمقراطية	النقاش والحوار	الامتحان الشفوي والتحريري
١٨	ساعتان	الفهم والاستيعاب	الديمقراطية في العالم الثالث	النقاش والحوار	الامتحان الشفوي والتحريري
١٩	ساعتان	الفهم والاستيعاب	الانظمة الديمقراطية في العالم	النقاش	الامتحان

				والحوار	الشفوي والتحريري
٢٠	ساعتان	الفهم والاستيعاب	مفهوم الحريات، تصنيف الحريات العامة	النقاش والحوار	الامتحان الشفوي والتحريري
٢٢	ساعتان	الفهم والاستيعاب	الحرية الاساسية، الحريات الفكرية، الحريات الاقتصادية والاجتماعية	النقاش والحوار	الامتحان الشفوي والتحريري
٢٣	ساعتان	الفهم والاستيعاب	حرية الامن والشعور بالاطمئنان حرية الذهاب والاياب	النقاش والحوار	الامتحان الشفوي والتحريري
٢٤	ساعتان	الفهم والاستيعاب	حرية التعليم ، حرية الصحافة، حرية التجمع	النقاش والحوار	الامتحان الشفوي والتحريري
٢٥	ساعتان	الفهم والاستيعاب	حرية الجمعيات ، حرية العمل	النقاش والحوار	الامتحان الشفوي والتحريري
٢٦	ساعتان	الفهم والاستيعاب	حق التملك	النقاش والحوار	الامتحان الشفوي والتحريري
٢٧	ساعتان	الفهم والاستيعاب	حرية التجارة والصناعة	النقاش والحوار	الامتحان الشفوي والتحريري
٢٨	ساعتان	الفهم والاستيعاب	حرية المراة	النقاش والحوار	الامتحان الشفوي والتحريري
٢٩	ساعتان	الفهم والاستيعاب	الاحزاب السياسية والحريات العامة	النقاش والحوار	الامتحان الشفوي والتحريري
٣٠	ساعتان	الفهم والاستيعاب	مستقبل الحريات العامة	النقاش والحوار	الامتحان الشفوي والتحريري

١٢. البنية التحتية	
١. الكتب المقررة المطلوبة	
٢. المراجع الرئيسية (المصادر)	
أ. الكتب والمراجع التي وصى بها (المجلات العلمية ، التقارير ، ....)	
ب. المراجع الالكترونية ، مواقع الانترنيت	

١٣. خطة تطوير المقرر الدراسي

سلوك مهني

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Madenat Alelem University College
2. University Department/Centre	Anesthesia and intensive care techniques
3. Course title/code	Medical ethics
4. Program (s) to which it contributes	Bachelor of Science in Anesthesia
5. Modes of Attendance offered	Theoretical
6. Semester/Year	Yearly
7. Number of hours tuition (total)	60
8. Date of production/revision of this specification	14/6/2021
9. Aims of the Course	
1 .Recognize the basic ethics of professional conduct for workers in medical specialties 2 .Introducing the graduate to the most important standards applicable to health and safety for all ministries, including health 3 .Qualifying the graduate to deal with his profession to achieve compatibility with himself, his professional environment, the patient and his companions 4 .The behavior of the graduate with the doctor and the assistant staff in the medical field 5 .How does the graduate deal with medical devices and how to maintain them؟ 6 .Instilling the principle of professional ethics 7. The graduate's belief in the humanity of his work and his full performance	

10- Learning Outcomes, Teaching, Learning and Assessment Method

D. General and Transferable Skills (other skills relevant to employability and personal development)

1 - The student acquired general skills through practical practice of collecting pathological samples and methods of dealing with them.

2 - Self-development by reviewing the latest developments in the field of competence and participating in training courses, lectures and scientific seminars prepared for this purpose.

3 - Working in a team spirit with others to ensure facing the difficulties and problems that they may face in the practical aspect, cross-fertilization of ideas and come up with sound scientific opinions.

4. Through organizational and communication skills, students can use critical thinking about accessing advanced technologies in routine laboratory practice, allowing analysis of end products from

3 .Maintains and protects medical devices

4. Design the appropriate means of communication with the patient

Teaching and Learning Methods

1. Lectures and online sessions

Assessment methods

1. Oral exams
2. Written exams
3. Semester exams
4. Final exams
5. Daily evaluation
6. Objective research

C. Thinking Skills

1 .His love for cooperation and assistance with his colleagues

2 .His interaction with the behavior material

3 .Behavioral handling of devices and equipment

4. He refrains from interrupting his colleagues at work

13. Admissions	
Pre-requisites	

Minimum number of students	
Maximum number of students	

Week	Hours	ILOs	Title	Method	Method
١	2hr theoretical	Make the lecture clear	Introduction to professional conduct. Occupational etiquette definitions include: (Rules of Ethics, Rules of Professional Ethics,	Lectures	Theoretical exam
٣	theoretical	the lecture clear	Behavior concept: Human behavior - the principles on which it is based. Interpretation of human behavior. characteristics of human behavior. Behavior components. types of behavior.		exam
٤	2hr theoretical	Make the lecture clear	Personality: its definition, types of personalities, integrated personality traits, general characteristics of those who work in the health field, requirements for success at work.	Lectures	Theoretical exam

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	**Textbooks** اخلاقيات المهن الطبية
Special requirements (include for example workshops, periodicals, IT software, websites)	Wikipedia Various YouTube videos and TED talks
Community-based facilities (Include for example, guest Lectures, internship, field studies)	We did not offer such activities due to the Corona pandemic

٥	2hr theoretical	Make the lecture clear	Habits: Types of habits, habits and practice of the profession.	Lectures	Theoretical exam
٦	2hr theoretical	Make the lecture clear	Motives, types of motives, factors affecting human behavior. Values: measurement of the section, types of values. Inclinations (interests, tendencies, characteristics of tendencies). Education: its goals.	Lectures	Theoretical exam
٧	2hr theoretical	Make the lecture clear	Physical and psychological characteristics and traits. levels of mental health.	Lectures	Theoretical exam
٨	2hr theoretical	Make the lecture clear	Values: measurement of values, types of values.	Lectures	Theoretical exam
٩	2hr theoretical	Make the lecture clear	Group communication: methods of group communication, roles, group, group cohesion, different aspects of group cohesion, factors that lead to group cohesion, factors that lead to group lack of cohesion.	Lectures	Theoretical exam
١٠	2hr theoretical	Make the lecture clear	Skills: definition, types of skills.	Lectures	Theoretical exam
١١	2hr theoretical	Make the lecture clear	Training: training objectives, the need for vocational training, systems analysis system in vocational training, types of training.	Lectures	Theoretical exam

١٢	2hr theoretical	Make the lecture clear	Health education: definition, goals of education, health education team, duties of the education team, how to develop a health education plan, areas of medical education, health education methods and methods.	Lectures	Theoretical exam
١٣	2hr theoretical	Make the lecture clear	the responsibility- : Liability for some medical issues. Responsibility when performing a medical examination. Responsibility in matters of assistance in the diagnosis. Responsibility for the so-called death of mercy. Liability for some special cases. Responsibility before trials on patients. Attitude to infertility and artificial insemination. Practices in the field of health-: negligent practices and malpractice. Practices related to negative human relations.	Lectures	Theoretical exam
١٤	2hr theoretical	Make the lecture clear	Methods of dealing with patients with psychological and mental illnesses. The modern trend in supervising psychiatric nursing. Etiquette of treating mental and mental patients.	Lectures	Theoretical exam

			The rights of the psychiatric patient. Rights of children and adolescents.		
١٥	2hr theoretical	Make the lecture clear	Technical qualities: Psychological attributes of the technician, physical and mental attributes, cultural attributes of the technician, and professional attributes. Qualities that should be available in health workers.	Lectures	Theoretical exam
١٦	2hr theoretical	Make the lecture clear	Etiquette of speaking honesty, etiquette of speech. Basic ethics in the work of a health technician. Code of ethics for health technology.	Lectures	Theoretical exam
١٧	2hr theoretical	Make the lecture clear	Mental health, the concept of mental health, its objectives. Mental health is endowed or gained.	Lectures	Theoretical exam
١٨	2hr theoretical	Make the lecture clear	Etiquette of dealing with the health team. - The relationship with the patient, the relationship with the community, the relationship with the health institution, the relationship with the members of the health team, the relationship with the patient’s family.	Lectures	Theoretical exam
١٩	2hr theoretical	Make the lecture clear	Health organization laws. -Functional traditions and bases of dealing within the health organization. The goals of the health organization's employees.	Lectures	Theoretical exam

٢٠	2hr theoretical	Make the lecture clear	Introduction to professional conduct. Definitions of professional ethics include: (Rules of Ethics, Rules of Professional Ethics, Professional Ethics).	Lectures	Theoretical exam
٢١	2hr theoretical	Make the lecture clear	Civilizational developments for professional ethics The ancient Arab civilization. Greek civilization. Arab civilization before Islam. Principles of Professional Ethics in Arab Civilization.	Lectures	Theoretical exam
٢٢	2hr theoretical	Make the lecture clear	professional conduct: Behavior concept. Human behavior - the principles on which it is based. Interpretation of human behavior. characteristics of human behavior. Behavior components. types of behavior.	Lectures	Theoretical exam
٢٣	2hr theoretical	Make the lecture clear	Personality: its definition, types of personalities, integrated personality traits, general characteristics of those who work in the health field, requirements for success at work.	Lectures	Theoretical exam
٢٤	2hr theoretical	Make the lecture clear	Habits: Types of habits, habits and practice of the profession.	Lectures	Theoretical exam

٢٥	2hr theoretical	Make the lecture clear	Motives, types of motives, factors affecting human behavior. Values: measurement of the section, types of values. Inclinations (interests, tendencies, characteristics of tendencies). Education: its goals.	Lectures	Theoretical exam
٢٦	2hr theoretical	Make the lecture clear	Physical and psychological characteristics and traits. levels of mental health.	Lectures	Theoretical exam
٢٧	2hr theoretical	Make the lecture clear	Values: measurement of values, types of values.	Lectures	Theoretical exam
٢٨	2hr theoretical	Make the lecture clear	- Group communication: methods of group communication, roles, group, group cohesion, different aspects of group cohesion, factors that lead to group cohesion, factors that lead to group lack of cohesion.	Lectures	Theoretical exam
٢٩	2hr theoretical	Make the lecture clear	Skills: definition, types of skills.	Lectures	Theoretical exam
٣٠	2hr theoretical	Make the lecture clear	Introduction to professional conduct. Definitions of professional ethics include: (Rules of Ethics, Rules of Professional Ethics, Professional Ethics).	Lectures	Theoretical exam

علوم حياة

E 2021

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	Biology
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly 1 hours theoretical +3houres practical
6. Semester/Year	Year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
At the end of the academic year, the student should be able to identify the cell and its structure, describe bacteria and parasites, and explain the cell's immune mechanism against pathogenic organisms.	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1. Learn about the principles of life sciences and their relationship with other sciences
A2. Knowing the exact structure of the cell and its organs
A3. The study of the human body and its functions
A4. Identifying microorganisms helps to know what is useful, such as stomach bacteria important for digesting food, and viruses that cause diseases
A5. Understand the defensive mechanism of the cell
A6 .

B. Subject-specific skills
B1. Use and maintain the necessary equipment and tools
B2. Work safely in the laboratory
B3. Identify the type of bacteria, parasites and fungi
B4: Collection and treatment of biological samples

Teaching and Learning Methods

Lecture and lab.

Assessment methods

daily exam
monthly exam
Daily attendance and participation

C. Thinking Skills
C1. direct questions
C2. Homework

Teaching and Learning Methods

Lecture and lab.

Assessment methods
daily exam monthly exam Daily attendance and participation
D. General and Transferable Skills (other skills relevant to employability and personal development) D1:To be able to use all laboratory equipment and materials D2: To be able to Apply all the theories and experiments related to the Biology D3: Likes to work in laboratories and hospitals D4: Preparing research related to Biology

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. D2. D3. D4.

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Biology the dynamic science /Russell ,Wolfe, Hertz,Starr&Mcmillan -1st Ed General Biology ∏ Organisms and Ecology/ Dennis Holley. 2017 Textbook of Microbiology& Immunology /Parija S. Chandra -2nd Ed Difiores Atlas of histology with functional correlations /Victor P. Eroschenko-11th Ed Scientific Journals Websites
Special requirements (include for example workshops, periodicals, IT software, websites)	

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1 theoretica 3 practical	Understanding the lecture	Introduction to biology and its definition ,the cell ,cell theory, prokaryotic and eukaryotic	Lecture and lab	Short exam
2	1 theoretica 3 practical	Understanding the lecture	Type of cells, shapes, sizes	lecture and lab	Short exam
3	1 theoretica 3 practical	Understanding the lecture	Cell structures	lecture and lab	Short exam
4	1 theoretica 3 practical	Understanding the lecture	cytoplasmic membrane, cytoplasmic organelles , the nucleus	lecture and lab	Short exam
5	1 theoretica 3 practical	Understanding the lecture	Mitosis diffusion	lecture and lab	Short exam
6	1 theoretica 3 practical	Understanding the lecture	Meiosis diffusion	lecture and lab	Short exam
7	1 theoretica 3 practical	Understanding the lecture	Cell differentiation	lecture and lab	Short exam
8	1 theoretica 3 practical	Understanding the lecture	Human tissues: epithelia tissue & connective tissue	lecture and lab	Short exam

9	1 theoretica 3 practical	Under standing the lecture	Muscular tissue	lecture and lab	Short exam
10	1 theoretica 3 practical	Under standing the lecture	Nervous tissue	lecture and lab	Short exam
11	1 theoretica 3 practical	Under standing the lecture	Antibiotic	lecture and lab	Short exam
12	1 theoretica 3 practical	Under standing the lecture	Bone , cartilage	lecture and lab	Short exam
13	1 theoretica 3 practical	Under standing the lecture	Blood , lymph	lecture and lab	Short exam
14	1 theoretica 3 practical	Under standing the lecture	Bacteria: define its general properties ,Shape arrangement	lecture and lab	Short exam
15	1 theoretica 3 practical	Under standing the lecture	Media &the nutritional requirement	lecture and lab	Short exam
16	1 theoretica 3 practical	Under standing the lecture	Bacterial isolation	lecture and lab	Short exam
17	1 theoretica	Under	Sterilization& disinfection	lecture and lab	Short exam

	3 practical	standing the lecture			
18	1 theoretica 3 practical	Under standing the lecture	Mycology yeast & mould	lecture and lab	Short exam
19	1 theoretica 3 practical	Under standing the lecture	Parasite , protozoa, mastigophora	lecture and lab	Short exam
20	1 theoretica 3 practical	Under standing the lecture	Some classes of protozoa: Cilliata,	lecture and lab	Short exam
21	1 theoretica 3 practical	Under standing the lecture	Some classes of protozoa: Sporozoa	lecture and lab	Short exam
22	1 theoretica 3 practical	Under standing the lecture	Helminthes: examples for nematodes & cestodes with general properties	lecture and lab	Short exam
23	1 theoretica 3 practical	Under standing the lecture	Helminthes: examples for trematodes with general properties	lecture and lab	Short exam
24	1 theoretica 3 practical	Under standing the lecture	Viruses, structure	lecture and lab	Short exam
25	1 theoretica 3 practical	Under standing the lecture	Morphology &Pathogenicity of viruses	lecture and lab	Short exam

26	1 theoretica 3 practical	Under standing the lecture	Immunity: definition	lecture and lab	Short exam
27	1 theoretica 3 practical	Under standing the lecture	Types & factors of humeral and cellular immunity	lecture and lab	Short exam
28	1 theoretica 3 practical	Under standing the lecture	Test examples on each & its application	lecture and lab	Short exam
29	1 theoretica 3 practical	Under standing the lecture	Definition of antigen and antibody	lecture and lab	Short exam
30	1 theoretica 3 practical	Under standing the lecture	Antigen and Antibody reaction	lecture and lab	Short exam

Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

علوم حياة

A 2021

نموذج وصف المقرر

مراجعة أداء مؤسسات التعليم العالي ((مراجعة البرنامج الأكاديمي))

وصف المقرر

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

١. المؤسسة التعليمية	كلية مدينة العلم الجامعة
٢. القسم الجامعي / المركز	تقنيات التخدير والعناية المركزه قسم العلمي
٣. اسم / رمز المقرر	علوم الحياة
٤. البرامج التي يدخل فيها	
٥. أشكال الحضور المتاحة	اسبوعي (ساعة نظري وثلاث عملي)
٦. الفصل / السنة	سنوي
٧. عدد الساعات الدراسية (الكلي)	١٢٠
٨. تاريخ إعداد هذا الوصف	١٥ / ٦ / ٢٠٢١
٩. أهداف المقرر	
ان يكون الطالب في نهاية العام الدراسي قادرا على التعرف على الخلية وتركيبها ووصف البكتريا والطفيليات وشرح الميكانيكية المناعية للخلية ضد الكائنات المرضية	

١٠. مخرجات التعلم وطرائق التعليم والتعلم والتقييم
أ- المعرفة والفهم أ١- التعرف على مبادئ علوم الحياة وعلاقته مع العلوم الاخرى أ٢- معرفة التّركيب الدّقيق للخليّة ولأعضاء أ٣- دراسة جسم الإنسان ووظائفه أ٤- التعرّف على الكائنات المجهريّة تُساعد في معرفة ما هو مُفيد مثل بكتيريا المعدة الهامّة لهضم الطّعام، والفيروسات التي تُسبّب الأمراض أ٥- فهم الميكانيكية الدفاعية للخلية أ٦-
ب - المهارات الخاصة بالموضوع ب١ - استخدام الاجهزة والادوات الضرورية وأدامتها ب٢ - العمل بأمان في المختبر ب٣ - التعرف على نوع البكتريا والطفيليات والفطريات ب٤- جمع ومعاملة العينات البايلوجية
طرائق التعليم والتعلم
المحاضرة ، المختبر
طرائق التقييم
االمتحان اليومي االمتحان الشهريه الحضور اليومي والمشاركه
ج- مهارات التفكير ج١- الاسئله المباشرة ج٢- الواجبات البيتيه
طرائق التعليم والتعلم
المحاضرة ، المختبر

طرائق التقييم
االمتحان اليومي االمتحان الشهريه الحضور اليومي والمشاركه
د - المهارات العامة والمنقولة (المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي). د١- ان يكون قادر على استخدام كافة الاجهزة والمواد المختبرية د٢- يطبق كافة النظريات والتجارب الخاصة بعلوم الحياة د٣- يحب العمل في المختبرات والمستشفيات د٤- اعداد البحوث المتعلقة بعلوم الحياة

١٢. البنية التحتية	
القراءات المطلوبة : ▪ النصوص الأساسية ▪ كتب المقرر ▪ أخرى	Biology the dynamic science /Russell ,Wolfe, Hertz,Starr&Mcmillan -1st Ed General Biology ∏ Organisms and Ecology/ Dennis Holley. 2017 Textbook of Microbiology& Immunology /Parija S. Chandra -2nd Ed Difiores Atlas of histology with functional correlations /Victor P. Eroschenko-11th Ed المجلات العلمية مواقع الويب
متطلبات خاصة (وتشمل على سبيل المثال ورش العمل والدوريات والبرمجيات والمواقع الالكترونية)	
الخدمات الاجتماعية (وتشمل على سبيل المثال محاضرات الضيوف والتدريب المهني والدراسات الميدانية)	التدريب في المستشفيات

١٣. القبول	
المتطلبات السابقة	
أقل عدد من الطلبة	
أكبر عدد من الطلبة	

١١. بنية المقرر

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة / المساق أو الموضوع	طريقة التعليم	طريقة التقييم
١	١-نظري ٣-عملي	فهم المحاضرة	مقدمة في علم الحياة وتعريفة ،الخلية ، النظرية الخلوية ،الخلايا حقيقية وبدائية النواة	المحاضرة المختبر	الامتحان القصير
٢	١-نظري ٣-عملي	فهم المحاضرة	انواع الخلايا ، الشكل ، الحجم	المحاضرة المختبر	الامتحان القصير
٣	١-نظري ٣-عملي	فهم المحاضرة	تركيب الخلية	المحاضرة المختبر	الامتحان القصير
٤	١-نظري ٣-عملي	فهم المحاضرة	الغشاء البلازمي ،العضيات السايتوبلازمية ،النواة	المحاضرة المختبر	الامتحان القصير
٥	١-نظري ٣-عملي	فهم المحاضرة	الانقسام الخيطي	المحاضرة المختبر	الامتحان القصير
٦	١-نظري ٣-عملي	فهم المحاضرة	الانقسام الختزالي	المحاضرة المختبر	الامتحان القصير
٧	١-نظري ٣-عملي	فهم المحاضرة	التمايز الخلوي	المحاضرة المختبر	الامتحان القصير
٨	١-نظري ٣-عملي	فهم المحاضرة	انسجة الانسان ، النسيج الظهاري والنسيج الضام وانواعه	المحاضرة المختبر	الامتحان القصير
٩	١-نظري ٣-عملي	فهم المحاضرة	النسيج العضلي وانواعه	المحاضرة المختبر	الامتحان القصير
١٠	١-نظري ٣-عملي	فهم المحاضرة	النسيج العصبي وانواعه	المحاضرة المختبر	الامتحان القصير
١١	١-نظري ٣-عملي	فهم المحاضرة	المضادات الحيوية	المحاضرة المختبر	الامتحان القصير
١٢	١-نظري ٣-عملي	فهم المحاضرة	العظم ، الغضروف	المحاضرة المختبر	الامتحان القصير
١٣	١-نظري ٣-عملي	فهم المحاضرة	الدم ، اللمف	المحاضرة المختبر	الامتحان القصير
١٤	١-نظري ٣-عملي	فهم المحاضرة	البكتريا : تعريف خصائصها العامة ،الشكل والترتيب	المحاضرة المختبر	الامتحان القصير
١٥	١-نظري ٣-عملي	فهم المحاضرة	الوسط الزرعي والمتطلبات الغذائية	المحاضرة المختبر	الامتحان القصير

١٦	١-نظري ٣-عملي	فهم المحاضرة	عزل البكتريا	المحاضرة المختبر	الامتحان القصير
١٧	١-نظري ٣-عملي	فهم المحاضرة	التعقيم والتطهير	المحاضرة المختبر	الامتحان القصير
١٨	١-نظري ٣-عملي	فهم المحاضرة	علم الفطريات و العفن	المحاضرة المختبر	الامتحان القصير
١٩	١-نظري ٣-عملي	فهم المحاضرة	الطفيليات والابتدائيات والسوطيات	المحاضرة المختبر	الامتحان القصير
٢٠	١-نظري ٣-عملي	فهم المحاضرة	بعض صنوف الابتدائيات : المهدبات	المحاضرة المختبر	الامتحان القصير
٢١	١-نظري ٣-عملي	فهم المحاضرة	بعض صنوف الابتدائيات : البوغيات	المحاضرة المختبر	الامتحان القصير
٢٢	١-نظري ٣-عملي	فهم المحاضرة	الديدان الطفيلية :مثال عن الديدان الخيطية والشريطية مع الخصائص العامة	المحاضرة المختبر	الامتحان القصير
٢٣	١-نظري ٣-عملي	فهم المحاضرة	الديدان الطفيلية : مثال عن المثقبات (الديدان المثقوبة) مع الخصائص العامة	المحاضرة المختبر	الامتحان القصير
٢٤	١-نظري ٣-عملي	فهم المحاضرة	الفايروس، تركيبه	المحاضرة المختبر	الامتحان القصير
٢٥	١-نظري ٣-عملي	فهم المحاضرة	شكل الفايروس وامراضيته	المحاضرة المختبر	الامتحان القصير
٢٦	١-نظري ٣-عملي	فهم المحاضرة	المناعه : تعريفها	المحاضرة المختبر	الامتحان القصير
٢٧	١-نظري ٣-عملي	فهم المحاضرة	انواع المناعة الخلطية والخلوية وعواملها	المحاضرة المختبر	الامتحان القصير
٢٨	١-نظري ٣-عملي	فهم المحاضرة	مثال عن كل واحدة وتطبيقاتها	المحاضرة المختبر	الامتحان القصير
٢٩	١-نظري ٣-عملي	فهم المحاضرة	تعريف المستضد والجسم المضاد	المحاضرة المختبر	الامتحان القصير
٣٠	١-نظري ٣-عملي	فهم المحاضرة	تفاعل المستضد والجسم المضاد	المحاضرة المختبر	الامتحان القصير

physiology

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	physiology
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly 3 hours theoretical +2houres practical
6. Semester/Year	year
7. Number of hours tuition (total)	150
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
At the end of the academic year, the student will be able to understand the functions of the various cells and organs of the body and perform the various techniques of blood and other bodily fluid analyzes	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

Understand physiology science and relationship with other sciences .

B. Subject-specific skills

B1.distiguish normal and abnormal body state

B2.you can use laboratory devices

B3.you can apply hematology analysis

Teaching and Learning Methods

Lectures and film

Assessment methods

Daily examination

Monthly examination

C. Thinking Skills

C1.direct questions

C2.homework

Teaching and Learning Methods

Lecture and lab

Assessment methods

Daily examination

Monthly examination

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1.understand body function

D2caring the patient

D

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3 theoretical 2 practical		**Definition of physiology; cell physiology; cell membrane components and structure.**		
2	3 theoretical 2 practical		**Movement of fluid, solutes and gases across the cell membrane.**		
٣	3 theoretical 2 practical		**Muscular tissues: types & characteristics.**		
4	3 theoretical 2 practical		**Contraction mechanism, fatigue, muscular pain**		
5	3 theoretical 2 practical		**Types of nerve cells, functions of nerve impulse, synapses and reflexes**		
6	3 theoretical 2 practical		**Action potential of nerve and muscle fiber.**		
7	3 theoretical 2 practical		**Blood; functions, component, plasma and serum**		
8	3 theoretic		**Red blood cells,**		

	al 2 practical		**shape, origin, Hb structure and Anemia**		
9	3 theoretic al 2 practical		**W.B.Cs, platelets ; functions, origin, structure**		
10	3 theoretic al 2 practical		**Blood clotting mechanism**		
11	3 theoretic al 2 practical		**Cardiovascular system ,heart valve cycle, HR conductive system.**		
12	3 theoretic al 2 practical		**Heart sounds and murmers, ECG**		
13	3 theoretic al 2 practical		**Blood pressure**		
14	3 theoretic al 2 practical		**Respiratory system, Pleura , Types of mechanism of respiration.**		
15	3 theoretic al 2 practical		**Oxygen Transporting and exchange**		
16	3 theoretic al 2 practical		**Carbon dioxide transporting and exchange**		
17	3 theoretic		**Lung Vol. and**		

	al 2 practical		**capacity, types of Hypoxia**		
18	3 theoretic al 2 practical		**Physiology of digestive system, gastric phases**		
19	3 theoretic al 2 practical		**Steps of digestion (carbohydrate, protein, fat digestion and absorption)**		
20	3 theoretic al 2 practical		**Urinary system, renal functions, urine formation.**		
21	3 theoretic al 2 practical		**Role of kidney to maintain body fluids to regulate B.Pr., acid base balance**		
22	3 theoretic al 2 practical		**Body température régulation and control**		
23	3 theoretic al 2 practical		**Nervous system, CNS brain function and centers**		
24	3 theoretic al 2 practical		**Spinal cord, CSF, Spinal reflexes**		
25	3 theoretic al 2 practical		**PNS Autonomic and Sensory**		
26	3		**Endocrine system**		

	theoretical 2 practical		**control of hormone , types and secretion**		
27	3 theoretical 2 practical		**Hormonal secretion form different glands**		
28	3 theoretical 2 practical		**Reproductive system , male reproductive system**		
29	3 theoretical 2 practical		**Female reproductive system**		
30	3 theoretical 2 practical		**Definition of physiology; cell physiology; cell membrane components and structure.**		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	ganong ,gauton
Special requirements (include for example workshops, periodicals, IT software, websites)	Academic journal and web sit
Community-based facilities (include for example, guest Lectures , internship , field studies)	Academic application in hospitals

13. Admissions	
Pre-requisites	
Minimum number of students	

Maximum number of students	

Medical Physics

TEMPLATE FOR COURSE SPECIFICATIN

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

Course Specification

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programmed specification.

1. Teaching Institution	Madenat Alelem University College
2. University Department / Center	Anesthesia and intensive care techniques
3. Course title / code	Medical Physics
4. Modes Of Attendance offered	Theoretical & practical
5. Semester / Year	Annual
6. Number of hours tuition (total)	120 hours Needed
7. The date this description was prepared	20 June 2021

8. Aims of this course

- The student will be able to identify physical phenomena and relate them to what the student needs from the medical phenomena that he observes during his working life, such as blood flow, a device that reads the heartbeat or the brain, and the temperature of the human body.
- Enable students to understand the physical principles that medical devices (such as monitoring and measuring devices) operate in the operating room and intensive care devices.
- Enable students to know the laws of gases, methods of heat transfer, thermodynamic and electrical laws
- To be able to identify pressures, fluids and viscosity.

9.

9.Learning Outcomes, Teaching ,Learning and Assessment Method

A- Cognitive goals

A1- Enabling the student to obtain the intellectual framework of the medical physics course

A2 - Providing a suitable academic environment for study and research to contribute to finding solutions to medical problems using appropriate and appropriate techniques through courses that provide a strong foundation in the aspect of health physics and its medical applications.

A3 - The student should be able to write in an effective scientific style in Arabic and English.

B- The skill objectives of the course

B 1 - Analyzing medical problems from the scientific side that have a physical basis, reaching their solution, and being able to suggest appropriate alternatives.

B2 - Enabling students to understand the physical principles by which medical devices work in the operating room and intensive care devices.

B3 - Enabling graduates to keep pace with the research development in the field of medical physics, which contributes to the development of the medical aspect.

Teaching and learning Methods

1. The multiplicity of teaching and learning methods used in the Department of Medical Physics, and the most important of these methods are: (theoretical and practical lecture, discussion)
2. Sudden daily and continuous weekly tests.
3. Guiding students to some websites to benefit from them using scientific films.

Evaluation methods

1. Monthly exam. 3. Academic reports
2. Short exam 4. Homework

C. Emotional and value goals

C1-Presenting the physical or mathematical problem and asking to think of possible solutions or developments.

C2 - Encouraging the development of students' scientific thinking in memorization and guessing and motivating them towards critical thinking and thinking.

Teaching and learning methods

1. The student's ability to analyze, apply and arrange knowledge so that he can make assumptions and interpretation as well as describe solutions.
2. Using brainstorming to bring out the creative ideas of some talented students.
3. Distinguishing that the test increases the student's motivation towards studying and gaining more, and is not a means of punishment for him
4. Management of the lecture in an applied manner linked to the reality of daily life to attract the student to the topic of the lesson without moving away from the core of the topic so that the material is flexible and capable of understanding and analysis.
5. Assigning the student some group activities and duties.
6. Allocate a percentage of the grade for daily duties and tests.

Evaluation methods

A- Objective tests to measure knowledge of scientific facts and their assimilation and application of scientific knowledge in new places and measure remembrance through the following:

True and False Questions.

Multiple choice questions.

-Interview questions (matching items).

Completion questions.

B- Scientific tests related to the following matters:

Remember facts and figures.

The ability to recall, link and interpret.

Apply knowledge in data interpretation, diagnosis and treatment of various diseases affecting humans and the environment.

D. Transferred general and qualification skills (other skills related to employability and personal development)

D1. Be able to use all laboratory equipment and materials

D2. Able to apply theoretical and experimental concepts in medical physics

D3. Able to work in laboratories and hospitals

D4. Preparing research related to medical physics

10. Course Structure

Week	Hours	ILOS	Unit/ Module or topic Title	Teaching Method	Assessment Method
1	6Theoretical 11 practical	Understanding the lecture	Skeletal Physics: Components of Bone, Types of Bones	For lab preparation	Short Exam
2	6Theoretical 11 practical	Understanding the lecture	Pressure: intracranial pressure, intraocular pressure, gastrointestinal pressure, skeletal pressure	For lab preparation	Short Exam
3	6Theoretical 11 practical	Understanding the lecture	Body energy, energy conservation in the body	For lab preparation	Short Exam
4	6Theoretical 11 practical	Understanding the lecture	Body work and body capacity	For lab preparation	Short Exam
5	6Theoretical 11 practical	Understanding the lecture	Oxygen consumption in the body	For lab preparation	Short Exam
6	6Theoretical 11 practical	Understanding the lecture	Heating in medicine: heat therapy	For lab preparation	Short Exam
7	6Theoretical 11 practical	Understanding the lecture	Cryosurgery in medicine: (Cryosurgery) Cryotherapy	For lab preparation	Short Exam
8	6Theoretical 11 practical	Understanding the lecture	Heat capacity, specific heat and latent heat	For lab preparation	Short Exam
9	6Theoretical 11 practical	Understanding the lecture	Heats, their types, heat, heat transfer methods, and thermoregulation in the body	For lab preparation	Short Exam
10	6Theoretical 11 practical	Understanding the lecture	Boyle's Diffusion and Dalton's Law	For lab preparation	Short Exam

11	6Theoretical 11 practical	Understanding the lecture	Lung physics: breathing mechanism, lung volume measurement	For lab preparation	Short Exam
12	6Theoretical 11 practical	Understanding the lecture	Transfer of oxygen and carbon dioxide in the human body	For lab preparation	Short Exam
13	6Theoretical 11 practical	Understanding the lecture	Methods and devices for measuring the percentage of oxygen and the percentage of carbon dioxide in the body	For lab preparation	Short Exam
14	6Theoretical 11 practical	Understanding the lecture	liquid evaporation, vapor pressure, boiling point	For lab preparation	Short Exam
15	6Theoretical 11 practical	Understanding the lecture	Rough and quiet flow of fluids	For lab preparation	Short Exam
16	6Theoretical 11 practical	Understanding the lecture	Cardiovascular system: heart, blood flow physics	For lab preparation	Short Exam
17	6Theoretical 11 practical	Understanding the lecture	Blood flow velocity, pressure in the circulatory system	For lab preparation	Short Exam
18	6Theoretical 11 practical	Understanding the lecture	Blood pressure measurement: direct method and indirect method	For lab preparation	Short Exam
19	6Theoretical 11 practical	Understanding the lecture	The physics of the eye, the mechanism of vision	For lab preparation	Short Exam
20	6Theoretical 11 practical	Understanding the lecture	The physics of the ear, the mechanism of hearing	For lab preparation	Short Exam
21	6Theoretical 11 practical	Understanding the lecture	Electricity in the human body: the	For lab preparation	Short Exam

			central nervous system		
22	6Theoretical 11 practical	Understanding the lecture	Electrocardiogram (ECG)	For lab preparation	Short Exam
23	6Theoretical 11 practical	Understanding the lecture	ECG pathways	For lab preparation	Short Exam
24	6Theoretical 11 practical	Understanding the lecture	The application of electricity, in medicine: electric shock, types of electricity	For lab preparation	Short Exam
25	6Theoretical 11 practical	Understanding the lecture	Electromagnetic blood flow measurement, skin resistance measurement	For lab preparation	Short Exam
26	6Theoretical 11 practical	Understanding the lecture	Nuclear magnetic resonance	For lab preparation	Short Exam
27	6Theoretical 11 practical	Understanding the lecture	Light in medicine: properties of laser light, types of lasers, lasers in medicine, applications of ultraviolet and infrared rays in medicine	For lab preparation	Short Exam
28	6Theoretical 11 practical	Understanding the lecture	Sound in medicine: properties of sound, reflection, scattering, absorption, ultrasound, biological effects.	For lab preparation	Short Exam
29	6Theoretical 11 practical	Understanding the lecture	Nuclear medicine, radiotherapy	For lab preparation	Short Exam
30	6Theoretical 11 practical	Understanding the lecture	Radiation protection: natural radiation, artificial radiation	For lab preparation	Short Exam

11. Infrastructure	
Required course books	Irving P. Herman Physics of the Human Body
A.Recommended books and references (scientific journals, reports, ...)	Scientific Journals
B. Electronic references, websites	Electronic library

12. Course development plan
Add recent sources Visiting hospitals and educational laboratories

Clinical Chemistry

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Madenat Alelem University College
2. University Department/Centre	Anesthesia and intensive care techniques
3. Course title/code	Clinical Chemistry
4. Program (s) to which it contributes	Bachelor of Science in Anesthesia
5. Modes of Attendance offered	Theoretical and practical
6. Semester/Year	Yearly
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	14/6/2021
9. Aims of the Course	
General Objective: At the end of the current academic year, the student will be able to: - Complete the various techniques of descriptive and quantitative analyzes of components in the blood and other body fluids of humans in the case of health and disease.	
Special Objectives: At the end of the academic year, the student will be able to: 1 .To be able to understand the basic principles of biochemistry and its applications. 2 .To be able to link the disease with abnormal changes in the blood and other components of the body. 3 .To have the ability to collect and treat biological samples. 4 .To be able to use and maintain the necessary equipment and tools.	

5 .To be able to estimate the components of blood and other body fluids descriptively and quantitatively.
6. To be able to work safely in laboratories

10· Learning Outcomes, Teaching, Learning and Assessment Method

A- Knowledge and Understanding

A1. Recognition by the student of the relationship of pathological analyzes with anesthesiology
A2. Knowing the vital activities in the human body for energy
A3. The student will be familiar with the scientific techniques used in the analysis
A4. Know the different types of biochemical separation methods
A5. The student learns the basics of the work of chemical analyzers
A6. Know the different types of life chemicals

B. Subject-specific skills

B 1. Prevention of the risks of various diseases
B 2. Prevention of chemical and radiation pollution risks resulting from the use of analyzers
B3. Prevention of infection risks for infectious and communicable diseases
B4. Avoiding malpractice in laboratory work

Teaching and Learning Methods

- A theoretical explanation of the experiment is given by the instructor
- Students perform the experiment in the laboratory
- The teacher supervises the work of the students and through it the assessment is carried out

Assessment methods

A practical, laboratory-based exam for students, by providing students with dried human blood serum prepared by the World Health Organization and its components are known. Therefore, students are asked to know its components and find their laboratory and practical ratios.

C. Thinking Skills

C1. Clinical Medicinal Chemistry is a basic science for students of medical colleges
C2. A clear perception of the disease in terms of diagnosis and treatment
C3. Studying the stages of disease progression in the patient
C4. Clinical diagnosis is confirmed based on laboratory results, either congruent or not

Teaching and Learning Methods
The lecture was given by the instructor by presenting the information and conducting practical laboratory experiments by the students
Assessment methods
A monthly written theory exam, a monthly oral theory exam, and daily surprise exams, both in theory and in practice

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. The student learns about the theoretical and practical foundations of laboratory tests related to various diseases D2. Perform laboratory tests in practice D3. Introducing experiments with modern technologies in laboratory diagnosis D4. The student acquires the skill of identifying qualitative examinations

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
١	2hr theoretical & 2hr practical	Make the lecture clear	Scope of Biochemistry in Health	Lecture and practical application	Theoretical and practical exam
٢	2hr theoretical & 2hr practical	Make the lecture clear	Acid Base Balance	Lecture and practical application	Theoretical and practical exam
٣	2hr theoretical & 2hr practical	Make the lecture clear	Buffer and Buffer System	Lecture and practical application	Theoretical and practical exam
٤	2hr theoretical & 2hr practical	Make the lecture clear	Blood constituents	Lecture and practical application	Theoretical and practical exam
٥	2hr theoretical & 2hr practical	Make the lecture clear	Water and electrolytes	Lecture and practical application	Theoretical and practical exam
٦	2hr theoretical & 2hr practical	Make the lecture clear	Carbohydrate Classification	Lecture and practical application	Theoretical and practical exam
٧	2hr theoretical & 2hr practical	Make the lecture clear	Carbohydrate Metabolism	Lecture and practical application	Theoretical and practical exam
٨	2hr theoretical & 2hr practical	Make the lecture clear	Glucose abnormality	Lecture and practical application	Theoretical and practical exam
٩	2hr theoretical & 2hr practical	Make the lecture clear	Lipid Classification	Lecture and practical application	Theoretical and practical exam
١٠	2hr theoretical & 2hr practical	Make the lecture clear	Liver diseases	Lecture and practical application	Theoretical and practical exam
١١	2hr theoretical & 2hr practical	Make the lecture clear	Protein classification	Lecture and practical application	Theoretical and practical exam
١٢	2hr theoretical & 2hr practical	Make the lecture clear	Protein Metabolism	Lecture and practical application	Theoretical and practical exam
١٣	2hr theoretical & 2hr practical	Make the lecture clear	Enzymes Classification	Lecture and practical application	Theoretical and practical exam
١٤	2hr theoretical	Make the lecture	Factors affecting of Enzymes	Lecture and practical	Theoretical and practical exam

	& 2hr practical	clear		application	
١٥	2hr theoretical & 2hr practical	Make the lecture clear	Enzymes in clinical diagnosis	Lecture and practical application	Theoretical and practical exam
١٦	2hr theoretical & 2hr practical	Make the lecture clear	Hormones Classification	Lecture and practical application	Theoretical and practical exam
١٧	2hr theoretical & 2hr practical	Make the lecture clear	Hormones in clinical diagnosis	Lecture and practical application	Theoretical and practical exam
١٨	2hr theoretical & 2hr practical	Make the lecture clear	Liver Function Tests	Lecture and practical application	Theoretical and practical exam
١٩	2hr theoretical & 2hr practical	Make the lecture clear	Urea Clearances	Lecture and practical application	Theoretical and practical exam
٢٠	2hr theoretical & 2hr practical	Make the lecture clear	Creatinine Clearances	Lecture and practical application	Theoretical and practical exam
٢١	2hr theoretical & 2hr practical	Make the lecture clear	Nutrient ion and source of energy	Lecture and practical application	Theoretical and practical exam
٢٢	2hr theoretical & 2hr practical	Make the lecture clear	Hepatitis, cirrhosis	Lecture and practical application	Theoretical and practical exam
٢٣	2hr theoretical & 2hr practical	Make the lecture clear	Serum Enzymes in Liver diseases	Lecture and practical application	Theoretical and practical exam
٢٤	2hr theoretical & 2hr practical	Make the lecture clear	Gastric secretion	Lecture and practical application	Theoretical and practical exam
٢٥	2hr theoretical & 2hr practical	Make the lecture clear	Pancreatic Functions	Lecture and practical application	Theoretical and practical exam
٢٦	2hr theoretical & 2hr practical	Make the lecture clear	Formation of composition of urine	Lecture and practical application	Theoretical and practical exam
٢٧	2hr theoretical & 2hr practical	Make the lecture clear	Renal Failure Tests	Lecture and practical application	Theoretical and practical exam
٢٨	2hr theoretical & 2hr practical	Make the lecture clear	Renal Functions	Lecture and practical application	Theoretical and practical exam
٢٩	2hr theoretical	Make the lecture		Lecture and practical	Theoretical and practical exam

	& 2hr practical	clear	Classification of Vitamins	application	
٣٠	2hr theoretical & 2hr practical	Make the lecture clear	Fat soluble vitamins	Lecture and practical application	Theoretical and practical exam

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Clinical Chemistry by Michael Bishop 2005
Special requirements (include for example workshops, periodicals, IT software, websites)	Wikipedia Various YouTube videos and TED talks
Community-based facilities (Include for example, guest Lectures, internship, field studies)	We did not offer such activities due to the Corona pandemic

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

وصف المواد
الدراسية

المرحلة الثانية

Anesthesia equipments 1

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Department of anesthesia
3. Course title/code	Anesthesia equipments 1
4. Programme(s) to which it contributes	Bachelor degree / anesthesia technologies
5. Modes of Attendance offered	Weekly(theory)
6. Semester/Year	2nd academic year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	20-6-2021
9. Aims of the Course	
1.the student should understand his role and responsibilities in providing anesthesia care	
2. educating the student about different equipments that are present in the operation rooms & intensive care units	
3. knowledge about the main features of these equipments	
4. knowledge about the performance of these equipments while providing anesthesia or while providing monitoring care in the intensive care units	

5
6.

10· Learning Outcomes, Teaching ,Learning and Assessment Method
A- Knowledge and Understanding A1. general and detailed knowledge about the equipments that are used in operation room and intensive care unit. A2. knowledge about the role & importance of every equipment in providing the health care to the patient A3..knowledge about how to operate different equipment & observing their performance while giving anesthesia or while monitoring of the patient in the intensive care unit A4. knowledge about how to use the equipments in skillful and safe way that avoid harming the patient. A5..knowledge about the sins and alarm signals coming from the equipments which are related to either device performance or the patient health condition A6 . knowledge about the malfunctions that can affect these equipments & how to deal with such events in a manner that wouldn't affect the fluency of patient care
B. Subject-specific skills B1.te skill of operating different equipments and putting them in ready state to provide care for the patient B2.skills about the devices used for maintaining patient airway B3. Skills about the devices used for providing general & neuroaxial anesthesia
Teaching and Learning Methods
Smart White board, Posters, Handouts, Lecture,
Assessment methods
Theory exam. Class activities
C. Thinking Skills C1. thinking about his role within a team and performing within the limits of that role C2. thinking about how to behave in situations where there is malfunction of

any equipment happening while providing the care
C3. quick to think about the equipments needed for specific patient & specific procedure
C4. suggesting alternatives in case of unavailability of some equipments
in a manner that ensure providing correct and safe care

Teaching and Learning Methods

Questioning
Classroom Discussion and Debates
Written Assignments

Assessment methods

Theory exam.
Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development)

. D1. Leadership skills
D2. Listening skills
D3. Learning new skills
D4. Problem solving skills

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11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1+2	4 H	lecture Understanding	**Operating room design and functioning**	lecture	Quick,
3+4	4 H	lecture Understanding	**Canula and giving set and device for intravenous infusion**	lecture	Quick
5+6	4 H	lecture Understanding	**Physical principles: behavior of molecules of solid and liquid, heat and temperature**	lecture	Quick
7+8	4 H	lecture Understanding	**Physical principles: properties of gases, temperature change in anaesthetic machine,** **and flow of fluid through tubes and orifice**	lecture	Quick
9+10	4 H	lecture Understanding	**Infusion equipment: patient control**	lecture	Quick

			analgesia, filtration, autotransfusion		
11+12	4 H	lecture Understanding	**The supply of anaesthetic gases, cylinders, oxygen concentrator**	lecture	Quick
13+14	4 H	lecture Understanding	**Medical gas services, bulk storage, and supply of gases, piped medical vaccum,electrical supply**	lecture	Quick,
15+16	4 H	lecture Understanding	**Distribution of pipework, terminal outlet**	lecture	Quick
17+18	4 H	lecture Understanding	**Flexible pipeline, test and check for medical gas pipeline**		Quick
19+20	4 H	lecture Understanding	**Measurements of gas flow and pressure, force and pressure**	lecture	Quick
21+22	4 H	lecture Understanding	**Vaporizer: law of**	lecture	Quick

			vaporization , vaporizing system, type of vaporizer		
23+24	4 H	lecture Understanding	**Factor affecting vaporizer performance , calibration of vaporizer, filling of vaporizer**	lecture	Quick
25+26	4 H	lecture Understanding	**Continuous flow anaesthetic machine: machine framework, the compressed gas** **attachment, flowmeter, back Bar**	lecture	Quick,
27+28	4 H	lecture Understanding	**Safety features of anaesthetic machine, common gas outlet, auxiliary gas sockets**	lecture	Quick
29+30	4 H	lecture Understanding	**Maintenance of anaesthetic machine**	lecture	Quick

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1.**Essentials of Equipment in Anaesthesia, Critical Care** 2.WARD'S ANAESTHETIC EQUIPMENT
Special requirements (include for example workshops, periodicals, IT software, websites)	The Arab Medical Library E-Library -
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

BASICS OF SURGERY

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	BASICS OF SURGERY
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly 2 hours theoretical +2houres practical
6. Semester/Year	year
Grade	٢nd grade
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
To familiarize the student with the basic principles related to the foundations of surgery, which are related to anesthesia and intensive care . Special Objective : To teach the student the basic principles of surgery, including the applications of physiology and pathology in interpreting the changes and complications that occur in the human body as a result of injuries and various medical conditions and how to deal with the	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

1 (To identify by the student the relationship of the foundations of surgery to the science of anesthesia
2 (Knowledge of basic sciences (physiology and pathology) and their relationship to clinical surgical cases
3 (The student learns about vascular shock, its types and treatment methods
4 (Knowing the types of intravenous fluids and parenteral nutrition and methods of use
5 (Knowing the types of blood and blood products from plasma, cold precipitate, and others
6 (The student learns how to prepare the surgical patient for anesthesia and the surgery
7 (Knowing the types of complications, sequelae of surgical operations and methods of treatment
8 (Knowledge of cancer and its types of surgical, radiological and chemical treatments

B. Subject-specific skills

Conducting clinical examinations for patients in the surgical wards
2 (Knowing the types of intravenous fluids and parenteral nutrition and ways to use them
3 (Knowing the types of blood and blood products such as plasma, cold precipitate, and others

Teaching and Learning Methods

1) The scientific material is delivered theoretically by the instructor
2) The teacher supervises the practical training of students and corrects their scientific ideas

Assessment methods

daily exam
monthly exam
Daily attendance and participation

C. Thinking Skills

direct questions
Homework

D. General and Transferable Skills (other skills relevant to employability and personal development)

1) The student learns about the theoretical and practical foundations of surgical diseases
2) Conducting clinical examinations in practice
3) The student acquires the skill to identify diseases and methods of treatment
4) The student acquires the skill of preparing the patient for surgeries, how to monitor the patient after the operations in the recovery rooms from anesthesia, types of prosecutions, the sequelae of the operation, and ways to avoid, diagnose and treat them.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	٢theoretical 2 practical	Understanding the lecture	The cell & cell injury, necrosis	Lecture and practical training	Theoretical and practical exam
2	2theoretical 2 practical	Understanding the lecture	Inflammation (acute & chronic)	Lecture and practical training	Theoretical and practical exam
٣	2 theoretical 2 practical	Understanding the lecture	Wounds , wound healing, scars	Lecture and practical training	Theoretical and practical exam
4	2 theoretical 2 practical	Understanding the lecture	Surgical microbiology	Lecture and practical training	Theoretical and practical exam
5	2 theoretical 2 practical	Understanding the lecture	Abscess, cellulites, non-specific infections	Lecture and practical training	Theoretical and practical exam
6	2 theoretical 2 practical	Understanding the lecture	Gas Gangrene, other types of Gangrene [causes]	Lecture and practical training	Theoretical and practical exam
7	2 theoretical 2 practical	Understanding the lecture	-:Specific infections	Lecture and practical training	Theoretical and practical exam
8	2 theoretical 2 practical	Understanding the lecture	T.B,	Lecture and practical training	Theoretical and practical exam
9	2 theoretical 2 practical	Understanding the lecture	Surgical immunopathology	Lecture and practical training	Theoretical and practical exam
10	2 theoretical 2 practical	Understanding the lecture	Ulcers, sinuses, fistula	Lecture and practical training	Theoretical and practical exam
11	2 theoretical 2 practical	Understanding the lecture	Sterile precautions, AIDS	Lecture and practical training	Theoretical and practical exam
12	2 theoretical 2 practical	Understanding the lecture	Acid-Base balance, Fluid-balance, types of I.V. Fluids	Lecture and practical training	Theoretical and practical exam
13	2 theoretical 2 practical	Understanding the lecture	Calcium metabolism, calcifications	Lecture and practical training	Theoretical and practical exam
14	2 theoretical 2 practical	Understanding the lecture	Blood fractions & transfusion	Lecture and practical training	Theoretical and practical exam
15	2 theoretical 2 practical	Understanding the lecture	Coagulopathy, B. dyscrasia in surgery	Lecture and practical training	Theoretical and practical exam

16	2 theoretical 2 practical	Understanding the lecture	Shock (types, pathophysiology)	Lecture and practical training	Theoretical and practical exam
17	2 theoretical 2 practical	Understanding the lecture	Emergency surgery, reaction of body to injury	Lecture and practical training	Theoretical and practical exam
18	2 theoretical 2 practical	Understanding the lecture	Nutritional support in surgery	Lecture and practical training	Theoretical and practical exam
19	2 theoretical 2 practical	Understanding the lecture	Types of Surgical Diseases :- Hereditary, Congenital, Acquired	Lecture and practical training	Theoretical and practical exam
20	2 theoretical 2 practical	Understanding the lecture	Angiology: Acute & Chronic Ischaemia – causes, clinical features	Lecture and practical training	Theoretical and practical exam
21	2 theoretical 2 practical	Understanding the lecture	Angiology: Venous Dis. – Thrombophlebitis & Phlebothrombosis	Lecture and practical training	Theoretical and practical exam
22	2 theoretical 2 practical	Understanding the lecture	Lymphadenopathy, surgical . lymphoedema	Lecture and practical training	Theoretical and practical exam
23	2 theoretical 2 practical	Understanding the lecture	Pre - operative preparation	Lecture and practical training	Theoretical and practical exam
24	2 theoretical 2 practical	Understanding the lecture	Post – operative complications & care	Lecture and practical training	Theoretical and practical exam
25	2 theoretical 2 practical	Understanding the lecture	Cellular Growth - its reactions to Stress & Injury	Lecture and practical training	Theoretical and practical exam
26	2 theoretical 2 practical	Understanding the lecture	Oncology.	Lecture and practical training	Theoretical and practical exam
27	2 theoretical 2 practical	Understanding the lecture	Oncology.	Lecture and practical training	Theoretical and practical exam
28	2 theoretical 2 practical	Understanding the lecture	،Chemotherapy	Lecture and practical training	Theoretical and practical exam
29	2 theoretical 2 practical	Understanding the lecture	radiation & biological effects of them	Lecture and practical training	Theoretical and practical exam
30	2 theoretical 2 practical	Understanding the lecture	Common skin lesions , tumours	Lecture and practical training	Theoretical and practical exam

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Oxford handbook of clinical surgery 4th edition Bailey and Love Short practice in surgery Churchill's Pocketbook of Surgery, 4th Edition
Special requirements (include for example workshops, periodicals, IT software, websites)	The American Journal of Surgery
Community-based facilities (include for example, guest Lectures , internship , field studies)	Giving lectures within the framework of continuous e-learning development

13. Admissions	
Pre-requisites	
Minimum number of students	60
Maximum number of students	124

Biostatistics

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

COURSE SPECIFICATION

	Madent aleleam university collage
t/Centre	Department of anesthesia
	Biostatistics
h it contributes	Classes
offered	Weekly 3 hours theoretical
	year
on (total)	75
evision of this specification	18/6/2021

e important of biostatistics and the method of data collection and classifying them in deferent types of scales of central tendency and their characteristics and the relationship between the same scales and the measures of icient between the variables of life phenomena , including health and enviroession between these variables to articular phenomenon as well as conducting specificity tests and an acceptance statement hypotheses or their ult we optain for a particular phenomenon as well as the applications of probability distribution to the health data to find out the probability that the variable in the phenomenon will obtain.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1 :Introduce the student to the important of biostatistics and the method of using the data with data and collection and classifying them in deferent types of scales A2: the ability to find and analysis statistical indicator. A3: the ability to measure the degree and type of relationship between indicators.
B. Subject-specific skills B1: enable to choose the right sample and classify information . B2 : enable to analysis different in measures. B3 : enable yo analysis of statistical models .
Teaching and Learning Methods
Lectures and class activities and recitation.
Assessment methods
Daily examination Monthly examination
C. Thinking Skills C1.direct questions C2.homework
Teaching and Learning Methods
Lecture and class activities and recitation.
Assessment methods

Daily examination Monthly examination

tant

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1.understand body function

D2caring the patient

D

11. Course Structure					
Week	Hours	IL Os	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3Houres		Introduction Measurement scale of variables. Statistical tables.	Theoretical / applied	Daily tests / theory and exams
2	3Houres		Graphical presentation.	Theoretical / applied	Daily tests / theory and exams
٣	3Houres		Arithmetical presentation. a-Central tendency Measurements (mean-Arithmetica mean)(Weight mean of score.	Theoretical / applied	Daily tests / theory and exams
4	3Houres		Geometric mean . Harmonic mean , mode . median .	Theoretical / applied	Daily tests / theory and exams
5	3Houres		b- Dispersion measurements . Quartiles . Deciles . percentiler . mean deviation . standard deviation . variance	Theoretical / applied	Daily tests / theory and exams
6	3Houres		Range . root mean square . Interquartile range . quartile deviation.	Theoretical / applied	Daily tests / theory and exams

			Coefficient of variation . coefficient of quartile . standardized veriable (standard scores)		
7	3Houres		c- Coefficient of skewness . Coefficient of momental skewness . presons first Coefficient of skewness . quartile Coefficient of skewness d Coefficient of kurtosis . Coefficient of momental kurtosis	Theoretical / applied	Daily tests / theory and exams
8	3Houres		Probability . Introduction . definitions- definition of probability probability theorem	Theoretical / applied	Daily tests / theory and exams
9	3Houres		Conditional prob. Mutanlly exclusive . indebendence , ranges theorem	Theoretical / applied	Daily tests / theory and exams
10	3Houres		Random variable . probability eunction . mathematical expectation – variance .	Theoretical / applied	Daily tests / theory and exams

			probability distribution . discrete case continuous case		
11	3Houres		Sampling distribution	Theoretical / applied	Daily tests / theory and exams
12	3Houres		Estimation . summary of confidence interval	Theoretical / applied	Daily tests / theory and exams
13	3Houres		Summary of significant tests .	Theoretical / applied	Daily tests / theory and exams
14	3Houres		Testing for the value of specified parameter (s) .	Theoretical / applied	Daily tests / theory and exams
15	3Houres		Analysis of variance One – way classification Two-way classification with one observation per cell Two - way classification with ® observation per cell Multiple comparsions (A-ANOVA).	Theoretical / applied	Daily tests / theory and exams
16	3Houres		-part (11) a-General linear model	Theoretical / applied	Daily tests / theory and exams
17	3Houres		-The simple regression model -The multiple regression model -The correlation coefficients	Theoretical / applied	Daily tests / theory and exams

18	3Houres		b-Time series analysis	Theoretical / applied	Daily tests / theory and exams
19	3Houres		-Antoregressive model (AR) -Moving average model (MA)	Theoretical / applied	Daily tests / theory and exams
20	3Houres		part (III) -Non _parametric statistics	Theoretical / applied	Daily tests / theory and exams
21	3Houres		The single sample case -(Binomial-test) (Chi-square-test)	Theoretical / applied	Daily tests / theory and exams
22	3Houres		(kolonnogorove-simirnov-test) -(Runs-test for randomness)	Theoretical / applied	Daily tests / theory and exams
23	3Houres		The case of paired replicats of one-sample) -(Mc-Nemar change test)	Theoretical / applied	Daily tests / theory and exams
24	3Houres		(sign_test) (Wilcoxon sign rank_test)	Theoretical / applied	Daily tests / theory and exams
25	3Houres		The case of indepent (two-sample) -(Chi-wquare-test of indep Test)	Theoretical / applied	Daily tests / theory and exams
26	3Houres		(Median-test)	Theoretical / applied	Daily tests / theory and exams
27	3Houres			Theoretical /	Daily tests /

			- (kolomogrv-smirrov-two sample test)	**applied**	**theory and exams**
28	**3Houres**		**The case of(K) related sample**	**Theoretical / applied**	**Daily tests / theory and exams**
29	**3Houres**		**(Friedman-two way ANOVA test)**	**Theoretical / applied**	**Daily tests / theory and exams**
30	**3Houres**		**The case of (K) independent sample -(Krishal-Wallis one -way ANOVA**	**Theoretical / applied**	**Daily tests / theory and exams**

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	Academic journal and web sit
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

Internal Medicine 1

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

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1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	Internal Medicine (1)
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly theoretical
6. Semester/Year	Year
7. Number of hours tuition (total)	60
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
Introduce the student to all diseases that can affect the body parts. Special Objectives: The student will be able to identify diseases: 1- The respiratory system. 2- The digestive system. 3 -The kidney 4 -Liver. 5-Endocrine glands	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1. Recognition by the student of the relationship of internal medicine to anesthesia A2- Knowledge of basic sciences and their relationship to clinical internal cases A3- The student's knowledge of the causes, symptoms and methods of treating internal diseases of the digestive system, nervous system, blood diseases and endocrine diseases A4- The student's acquaintance with the causes, symptoms and methods of treatment of internal diseases related to diseases of the heart, vascular system, liver and tissue diseases
B. Subject-specific skills B1. Knowledge of conducting clinical examinations for patients in the internal halls B2 - Knowing how to record the patient's medical history B3 - Knowing how to communicate with patients
Teaching and Learning Methods
1-The theoretical practical material delivered by the teacher 2- The student performs clinical examinations in practice in the hospital 3- The teacher supervises the work of the students and through it the evaluation is done
Assessment methods
Monthly exam and practical exam for students
C. Thinking Skills C1. direct questions C2. Homework

Teaching and Learning Methods
The lecture was given by the instructor by displaying information &Conducting clinical examinations by students
Assessment methods
Monthly exam and practical exam for students Daily surprise exams, both theoretical and practical
D. General and Transferable Skills (other skills relevant to employability and personal development) D1: The student is introduced to the theoretical and practical foundations of surgical diseases D 2- Conducting clinical examinations in practice D 3- The student acquires the skill of identifying diseases and methods of treating them

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TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Alelem University College
2. University Department/Centre	Department of Anesthesia Techniques – second stage -
3. Course title/code	1
4. Programme(s) to which it contributes	Anesthesia
5. Modes of Attendance offered	Online attendance for the theoretical course with actual attendance for the practical one
6. Semester/Year	The first semester. 2020-2021
7. Number of hours tuition (total)	210 hours of 10 units
8. Date of production/revision of this specification	10/6/2021
9. Aims of the Course	

general goal:

1- Introducing the student to the anesthetic materials and devices used and to resuscitate the patient.

2- Acting wisely on how to manage the patient in the event of an emergency situation.

own goal:-

3- Familiarize yourself with all anesthesia devices.

4- Giving narcotics.

5- Resuscitate the patient.

6- Acting wisely on how to manage the patient in the event of an emergency situation.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A- Cognitive goals

A 1- Knowing the anesthesia drugs and monitoring the patient during the operation

A 2- Knowing the mechanism of action of each drug and its effect on the various organs of the body

A 3- Knowing the problems that may occur when administering anesthesia drugs and their relationship to other drugs and their effects on the patient.

B. Subject-specific skills

B 1- The skill of monitoring the patient by means of anesthesia devices during the operation and upon recovery

B 2- The skill of rapid intervention in emergency cases using various anesthetics

B 3- The skill of knowing the components of anesthetics and the problems that occur during their administration and quickly solving them

Teaching and Learning Methods

Theoretical and practical methods of laboratory and hospitals, as well as illustrations and educational videos

Also, the open discussion method

With exams at the end of the lecture

Also presenting case scenarios

Assessment methods

The method of the semester and annual theoretical exams

The method of practical exams in laboratories as well as quarterly and annual hospitals

The method of daily theoretical and rapid tests

Attendance and daily posts are considered part of the evaluation

D. General and Transferable Skills (other skills relevant to employability and personal development)

D - Transferred general and qualifying skills (other skills related to employability and personal development).

D 1- The student behaves appropriately in job interviews

D 2 - The student must pass the professional exams

D 3- That the student develops himself after graduation

D 4- The student uses the available means to increase his efficiency

Teaching and Learning Methods

C-1 educational and professional goal

C 2 - The skill goal is considered an emotional goal

C 3- Moral goal

C-1 educational and professional goal

C 2 - The skill goal is considered an emotional goal

C 3- Moral goal

Assessment methods

Teaching and learning methods

Method of theoretical explanation, posts and explanations

Evaluation methods

only theory

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Basic miller of anesthesia Morgan and mikhails Essential anesthesia equipment Baha alshake anesthesia equipment
Special requirements (include for example workshops, periodicals, IT software, websites)	Other book of clinical anesthesiology
Community-based facilities (include for example, guest Lectures , internship , field studies)	Anesthesia and analgesia journal British journal of anesthesia Others

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
First week	7	Theory – practice	History of anaesthesia & introduction to anaesthesia.	theoretical material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	Actual attendance theory tests - practical tests inside laboratories
Second week	7	Theory – practice	Respiratory physiology & anatomy.	theoretical material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	Actual attendance theory tests - practical tests inside laboratories
Third wee;	7	Theory – practice	Continue Resp. Phys. & Anatomy.	theoretical material - Laboratories for the practical	Actual attendance theory tests - practical tests inside laboratories

				subject inside the anesthesia laboratory and the operating room	
Forth week	7	Theory – practice	General pharmacology.	theoretical material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	Actual attendance theory tests - practical tests inside laboratories
Fifth week-9 th week	7	Theory – practice	Inhalational anaesthetics.	theoretical material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	Actual attendance theory tests - practical tests inside laboratories
10 th - 14 th	7	Theory –	Intra venous	theoretical	Actual attendance

week		practice	anaesthetics.	material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	theory tests - practical tests inside laboratories
16th week - 19 th week	7	Theory – practice	Local relaxants.	theoretical material - Laboratories for the practical subject inside the anesthesia laboratory and the operating room	Actual attendance theory tests - practical tests inside laboratories

Pharmacology I

TEMPLATE FOR COURSE SPECIFICATION

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COURSE SPECIFICATION

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1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Anesthesia Department
3. Course title/code	Pharmacology I
4. Programme(s) to which it contributes	Part of a bachelor degree in anesthesia technical
5. Modes of Attendance offered	Weekly/ Theory
6. Semester/Year	2nd academic year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	13-6-2021
9. Aims of the Course	
1. Differentiate between various drugs forms.	
2. Understand the essential information concerning different types of drugs, such as mechanism of action does side effect and methods of administration.	

3. Recognize the responsibility of the nurse in giving drugs through the therapeutic process.
4. Realize different types of drug therapy across the life span.
5. Identify the essential principles in administration of medications.
6. Recognize drugs acting on common diseases.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1. Realize different types of drug therapy across the life span. A2. Identify the essential principles in administration of medications. A3. Recognize drugs acting on common diseases..
B. Subject-specific skills B1. Interpretation B2. Analysis B3 Evaluation B4. Explanation
Teaching and Learning Methods
Smart White board, Posters, Handouts, Lecture,
Teaching and Learning Methods
Questioning

Classroom Discussion and Debates Written Assignments
Assessment methods
Theory exam. Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. Leadership skills D2. Listening skills D3. Learning new skills

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Assessment Method	Teaching Method	Unit/Module or Topic Title	ILOs	Hours	Week
Quiz ,	lecture	Introduction, general aspects of pharmacology, principle of drug administration pharmacokinetic, principles in the use of drugs	lecture Understanding	4 H	1+2
Quiz	lecture	Drug metabolism and excretion.	lecture Understanding	4 H	3+4
Quiz	lecture	Drug action on cardiovascular system.	lecture Understanding	4 H	5+6
Quiz	lecture	Drug effects on respiratory system parts and diseases of respiratory system. Expectorant , broncholdilator, antitussive.	lecture Understanding	4 H	7+8
Quiz	lecture	Drugs action on digestive system. Parts and diseases of digestive system. Drugs act on higher part of digestive system. Drugs act on lower part of digestive system.	lecture Understanding	4 H	9+10
Quiz	lecture	Drugs acting on urinary system diuretics,	lecture Understanding	4 H	11+12

		antidiuretic, urinary antiseptic.			
Quiz	lecture	Blood dysfunctions,	lecture Understanding	4 H	13+14
		classification, insulin, glucagon hypoglycemic agent, adrenal steriods.			16+15
Quiz		Antimicrobial drug, classification.		4 H	17+18
Quiz		Antibacterial agents, antifungal agents, antiviral		4 H	19+20
Quiz		Drug action of nervous system. General aspects of neuropharmacology.		4 H	20+21
Quiz		Skeletal muscle relaxants.		4 H	22+23
Quiz		Local anaesthetics. General anaesthetics.		4 H	24+25

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Fundamentals of Pharmacology
Special requirements (include for example workshops, periodicals, IT software, websites)	The Arab Medical Library E-Library -
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	134
Maximum number of students	45

physiology

TEMPLATE FOR COURSE SPECIFICATION

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COURSE SPECIFICATION

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1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	physiology
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly 3 hours theoretical +2houres practical
6. Semester/Year	year
7. Number of hours tuition (total)	150
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
At the end of the academic year, the student will be able to understand the functions of the various body systems and act in emergency and pathological situations and their relationship to anesthesia	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

. To student know the effect of anesthesia on the organs of the body

B. Subject-specific skills
• To be able to cope with emergency situations during anesthesia.
• To be able to use the equipment and tools in the laboratory.
• To be able to perform various clinical examinations of the body

Teaching and Learning Methods

Providing students with topics related to the functions of the body through scientific lectures and films

Assessment methods

daily exam
monthly exam
Daily attendance and participation

C. Thinking Skills
direct questions
Homework

Teaching and Learning Methods

Lecture and lab.

Assessment methods

daily exam
monthly exam
Daily attendance and participation

D. General and Transferable Skills (other skills relevant to employability and personal development)

To be able to understand the functions of the body
To be able to deal with patients

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3 theoretical 2 practical	Understanding the lecture	**Homeostasis, fluid-electrolytes imbalance & acid-base disturbance " Related to Anesthesia**	lecture	Short exm
2	3 theoretical 2 practical		**Homeostasis, general scheme of metabolism, I.V fluid, used in clinical practice, Diabetes Mellitus**		
٣	3 theoretical 2 practical		**Common disorders of . fluid & electrolytes imbalance- general nots, vomiting, diarrhea, diabetic Keto-Acidosis,Metabolic, acidaemia, Metabolic Alkalaemia K^+, changes and electromotive force-EME.**		
4	3 theoretical 2 practical		**Kidneys, liver , lung functions related anaesthesia to homeostasis**		
5	3 theoretical 2 practical		**Chemistry of control respiratory stimulation & application in anaesthesia**		
6	3 theoretical 2 practical		**Normal curve of respiration during the respiratory cycle " pleural pressure, transpulmonary pressure, flow VT"**		

7	3 theoretical 2 practical		**Q_2 cascade , lung volumes of importance & application in anaesthesia**		
8	3 theoretical 2 practical		**Obstructive lung disease, restrictive lung disease.**		
9	3 theoretical 2 practical		**Dead space, shunt, physiological, pathological during anaesthesia**		
10	3 theoretical 2 practical		**Factors that help in lung expansion in each cardiac cycle at the beginning of inspiration**		
11	3 theoretical 2 practical		**Meaning of breathing during I.P.PV + high " FIO_2"**		
12	3 theoretical 2 practical		**Types of I.P.P.V wave – classification.**		
13	3 theoretical 2 practical		**Importance of monitoring the airway pressure gauge during I.P.P.V.**		
14	3 theoretical 2 practical		**Types of hypoxia – classification & examples**		
15	3 theoretical 2 practical		**Types of resp. failure - classification & examples**		
16	3 theoretical 2 practical		**Autonomic control on C.V.S.**		
17	3 theoretical 2 practical		**Starlings law of the heart**		
18	3 theoretical 2 practical		**Pressure drops from Lt. Side of the circulation to Rt.Side**		
19	3 theoretical 2 practical		**Pressure change in Lt. Ventricle & aorta during the cardiac cycle.**		
20	3 theoretical 2 practical		**Pressure change in Rt. Ventricle & pulmonary artery during the cardiac**		

			cycle		
21	3 theoretical 2 practical		**Starlings law of the capillaries.**		
22	3 theoretical 2 practical		**Excitation – contraction coupling.**		
23	3 theoretical 2 practical		**Effect of tachycardia, tachycardia + hypotension, tachycardia + hypotension- blood loss on the C.V.S.**		
24	3 theoretical 2 practical				
25	3 theoretical 2 practical		**Critical closing pressure phenomenon.**		
26	3 theoretical 2 practical		**Blood distribution in to vital organs.**		
27	3 theoretical 2 practical		**General knowlege-struction, type of I.V. fluid- clinical application.**		
28	3 theoretical 2 practical		**Hb. Dissociation – Association curves.**		
29	3 theoretical 2 practical		**O_2 flux+pre-oxygenation in anaesthesia, why increase FIO_2**		
30	3 theoretical 2 practical		**Homeostasis, fluid-electrolytes imbalance & acid-base disturbance " Related to Anesthesia**		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

Medical terms

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

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1. Teaching Institution	Madenat Alelem University College
2. University Department/Centre	Anesthesia and intensive care
3. Course title/code	Medical terms
4. Programme(s) to which it contributes	Google meet, Edmodo, telegram
5. Modes of Attendance offered	Weekly (theory)
6. Semester/Year	Year
7. Number of hours tuition (total)	150 hr
8. Date of production/revision of this specification	8/6/2021
9. Aims of the Course	
Understanding the responsibilities encountered th e students	
The student must be able to distinguish the prefix ,suffix, root ending of medical terms	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1. Identify of medical terms basic A2. A3. A4. A5. A6 .
B. Subject-specific skills B1. Student must be differentiate among suffix, prefix, root and ending of medical terms B2. B3.
Teaching and Learning Methods
Lecture
Assessment methods
Monthly exam
C. Thinking Skills C1. Medical terms: basic science for anesthetic and intensive care student C2. C3. C4.
Teaching and Learning Methods
Lecture
Assessment methods
Monthly exam

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1+2	2 hr	Understanding lecture	Introduction–structural analysis- Basic rules of medical word building.	Lecture	Quick exam
3+4	2 hr	Understanding lecture	Major suffixes- suffixes denoting a state or condition.	Lecture	Quick exam
5+6	2 hr	Understanding lecture	Major suffixes-suffixes denoting medical actions.	Lecture	Quick exam
7+8	2 hr	Understanding lecture	Prefixes- prefixes of No.& measures.	Lecture	Quick exam
9+10	2 hr	Understanding lecture	Prefixes- prefixes of color.	Lecture	Quick exam
11+12	2 hr	Understanding lecture	Prefixes- prefixes of direction & position.	Lecture	Quick exam
13+14	2 hr	Understanding lecture	Prefixes- prefixes of size, time & place	Lecture	Quick exam
15+16	2 hr	Understanding lecture	Prefixes- prefixes of negation	Lecture	Quick exam
17+18	2 hr	Understanding lecture	Prefixes- prefixes of type.	Lecture	Quick exam
19+20	2 hr	Understanding lecture	Roots.	Lecture	Quick exam
21+22	2 hr	Understanding lecture	Word terminals.	Lecture	Quick exam
23+24	2 hr	Understanding lecture	Conditions.	Lecture	Quick exam
25+26	2 hr	Understanding lecture	The body as a whole.	Lecture	Quick exam

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Lecture, medical terminology book Davi-Ellen chabner
Special requirements (include for example workshops, periodicals, IT software, websites)	Periodical , workshops

Community-based facilities (include for example, guest Lectures , internship , field studies)	Internet source

13. Admissions	
Pre-requisites	
Minimum number of students	25
Maximum number of students	50

وصف المواد الدراسية

المرحلة الثالثة

Anesthesia equipment's 2

TEMPLATE FOR COURSE SPECIFICATION

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1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Department of anesthesia
3. Course title/code	Anesthesia equipments 2
4. Programme(s) to which it contributes	Bachelor degree / anesthesia technologies
5. Modes of Attendance offered	Weekly(theory)
6. Semester/Year	3rd academic year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	21-6-2021
9. Aims of the Course	
1.the student should understand his role and responsibilities in providing anesthesia care	
2. educating the student about different equipments that are present in the operation rooms & intensive care units	
3. knowledge about the main features of these equipments	
4. knowledge about the performance of these equipments while providing anesthesia or while providing monitoring care in the intensive care units	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1. general and detailed knowledge about the equipments that are used in operation room and intensive care unit.
A2. knowledge about the role & importance of every equipment in providing the health care to the patient
A3..knowledge about how to operate different equipment & observing their performance while giving anesthesia or while monitoring of the patient in the intensive care unit
A4. knowledge about how to use the equipments in skillful and safe way that avoid harming the patient.
A5..knowledge about the sins and alarm signals coming from the equipments which are related to either device performance or the patient health condition
A6 . knowledge about the malfunctions that can affect these equipments & how to deal with such events in a manner that wouldn't affect the fluency of patient care

B. Subject-specific skills

B1. B1.te skill of operating different equipments and putting them in ready state to provide care for the patient

B2.skills about the devices used for maintaining patient airway

B3. Skills about the devices used for providing general & neuroaxial anesthesia

Teaching and Learning Methods

Smart White board,
Posters,
Handouts,
Lecture,

Assessment methods

Theory exam.
Class activities

C. Thinking Skills

C1. C1. thinking about his role within a team and performing within the limits of that role

C2. thinking about how to behave in situations where there is malfunction of any equipment happening while providing the care

C3. quick to think about the equipments needed for specific patient & specific procedure

C4. suggesting alternatives in case of unavailability of some equipments in a manner that ensure providing correct and safe care

Teaching and Learning Methods

Questioning
Classroom Discussion and Debates
Written Assignments

Assessment methods

Theory exam.
Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Leadership skills
D2. Listening skills
D3. Learning new skills
D4. Problem solving skills

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-2	4 H	lecture Understanding	**Anaesthetic circuts & sodalime absorbe.**	lecture	Quick,
3-5	4 H	lecture Understanding	**Vaporizers introduction. Simple vaporizers, Advanced vaporizers.**	lecture	Quick
6-7	4 H	lecture Understanding	**Boyles machine, introduction, components.**	lecture	Quick
8-9	4 H	lecture Understanding	**Flow meters, tubbing & central pipeline supply.**	lecture	Quick
10	4 H	lecture Understanding	**Suction unit.**	lecture	Quick
11 - 13	4 H	lecture Understanding	**Ventilators, simple, advanced.**	lecture	Quick
14 - 21	4 H	lecture Understanding	**Monitoring system introduction, pulmonary function test, spirometers lung volumes, pulse oximeter,**	lecture	Quick,

			capnograph , blood loss & estimations , C.V.P, Arterial blood pressure, E.C.G radial temperature reading.		
22 -23	4 H	lecture Understanding	**Daily check up & maintenance.**	lecture	Quick
24 - 25	4 H	lecture Understanding	**Pressure regulators, pressure reducing valve.**		Quick
26	4 H	lecture Understanding	**Humidifiers.**	lecture	Quick
27 - 28	4 H	lecture Understanding	**Sterilizations.**	lecture	Quick
29 - 30	4 H	lecture Understanding	**Advanced equipments, blood warms, Epidural catheters, Arterial blood gas analysis, defibrillator, peripheral nerve stimulator (E.M.G study).**	lecture	Quick

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1.**Essentials of Equipment in Anaesthesia, Critical Care** 2.WARD'S ANAESTHETIC EQUIPMENT
Special requirements (include for example workshops, periodicals, IT software, websites)	The Arab Medical Library E-Library -
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

Internal Medicine 2

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madent aleleam university collage
2. University Department/Centre	Department of anesthesia
3. Course title/code	Internal Medicine (2)
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly theoretical
6. Semester/Year	Year
7. Number of hours tuition (total)	60
8. Date of production/revision of this specification	15/6/2021
9. Aims of the Course	
Introduce the student to all diseases that can affect the body parts. Special Objectives: The student will be able to identify diseases: 1- The respiratory system. 2- The digestive system. 3 -The kidney 4 -Liver. 5-Endocrine glands	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1. Recognition by the student of the relationship of internal medicine to anesthesia A2- Knowledge of basic sciences and their relationship to clinical internal cases A3- The student's knowledge of the causes, symptoms and methods of treating internal diseases of the digestive system, nervous system, blood diseases and endocrine diseases A4- The student's acquaintance with the causes, symptoms and methods of treatment of internal diseases related to diseases of the heart, vascular system, liver and tissue diseases
B. Subject-specific skills B1. Knowledge of conducting clinical examinations for patients in the internal halls B2 - Knowing how to record the patient's medical history B3 - Knowing how to communicate with patients
Teaching and Learning Methods
1-The theoretical practical material delivered by the teacher 2- The student performs clinical examinations in practice in the hospital 3- The teacher supervises the work of the students and through it the evaluation is done
Assessment methods
Monthly exam and practical exam for students
C. Thinking Skills C1. direct questions C2. Homework

Teaching and Learning Methods
The lecture was given by the instructor by displaying information &Conducting clinical examinations by students
Assessment methods
Monthly exam and practical exam for students Daily surprise exams, both theoretical and practical
D. General and Transferable Skills (other skills relevant to employability and personal development) D1: The student is introduced to the theoretical and practical foundations of surgical diseases D 2- Conducting clinical examinations in practice D 3- The student acquires the skill of identifying diseases and methods of treating them

Anesthesia Technology 2

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat AlAelem University college :
2. University Department/Centre	Department of Anesthesia Technology
3. Course title/code	Anesthesia Technology 2
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly (Theoretical & Practical)
6. Semester/Year	Year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	21-6-2021
9. Aims of the Course	
. Pre-operative risk assessment of patients undergoing anesthesia , Key preoperative evaluation (patient history, physical exam, laboratory results)	
Perform emergency airway management , utilizing a rapid sequence induction in the OR	
Indications for the use of routinely used anesthetic drugs	
Major cardiovascular and respiratory effects of routinely used anesthetic drugs	
rovide continual medical assessment of the patient	
Monitor and control the patient's vital life functions, including heart rate and rhythm, breathing, blood pressure, body temperature and body fluid balance	

Control the patient’s pain and level of consciousness to make conditions ideal for a safe and successful surgery

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1.Anaesthetic technician performs a patient care role predominantly assisting with the administration and monitoring of anesthesia and has an extensive knowledge of anesthesia techniques, instruments, supplies and technology. A2. Identifying the defense mechanisms that the body possesses to defend itself in cases of exposure to disease A3. Knowing how to link changes that occur in the functions of organs in case of illness to the clinical symptoms that appear on the patient A4. Recognize the common diseases of each organ of the body .
B. Subject-specific skills B1. Interpretation B2. Analysis B3 Evaluation B4. Explanation
Teaching and Learning Methods
White board, Posters, Handouts, Lecture, Questioning, Classroom Discussion and Debate, Written Assignments
Assessment methods
Theory exam, Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Leadership skills
D2. Listening skills
D3. Learning new skills

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1+2	4H	Lecture under standing $ LAB	Preoperative assessment and steps in conducting anaesthesia	Lecture under standing$ LAB	Quiz
3+4	4H	Lecture under standing $ LAB	Premedication Anxiolytics , sedatives, hypnotics	Lecture under standing$ LAB	Quiz
5+6	4H	Lecture under standing $ LAB	Anticholinergic drugs	Lecture under standing$ LAB	Quiz
7+8	4H	Lecture under standing $ LAB	nhalational anaesthetic agents	Lecture under standing$ LAB	Quiz
9+10	4H	Lecture under standing $ LAB	IV induction agents	Lecture under standing$ LAB	Quiz
11+12	4H	Lecture under standing $ LAB	Basic principles in pharmacology (2 parts	Lecture under standing$ LAB	Quiz
13+14	4H	Lecture under standing $ LAB	Air way assessment &difficult air way management	Lecture under standing$ LAB	Quiz
15+16	4H	Lecture under standing $ LAB	Aspiration	Lecture under standing$ LAB	Quiz
17+18	4H	Lecture under standing $ LAB	CPR , Basic Life support	Lecture under standing$ LAB	Quiz

19+20	4H	Lecture under standing $ LAB	Obstetric physiology	Lecture under standing$ LAB	Quiz
21+22	4H	Lecture under standing $ LAB	Anaesthetic management of major obstetric emergencies (major maternal hemorrhage)	Lecture under standing$ LAB	Quiz
23+24	4H	Lecture under standing $ LAB	e Anesthesia for lower cesarean section , pre eclampsia	Lecture under standing$ LAB	Quiz
25	4H	Lecture under standing $ LAB	General surgical emergencies (Anesthesia for intestinal obstruction)	Lecture under standing$ LAB	Quiz
26+27	4H	Lecture under standing $ LAB	Anesthesia for Laparoscopic surgery	Lecture under standing$ LAB	Quiz
28+29	4H	Lecture under standing $ LAB	Pediatric anesthesia (special pediatric consideration)	Lecture under standing$ LAB	Quiz
30	4H	Lecture under standing $ LAB	Pediatric anesthesia (special pediatric consideration)	Lecture under standing$ LAB	Quiz

BASICS OF SURGERY

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	MADENAT ALELEM UNIVERSITY COLLEGE
2. University Department/Centre	Anesthesia and Intensive Care Techniques
3. Course title/code	BASICS OF SURGERY
4. Programme(s) to which it contributes	General surgery . Anesthesia , intensive care , internal medicine , anatomy
5. Modes of Attendance offered	Electronic, theoretical
6. Semester/Year	annual
7. Number of hours tuition (total)	60 years
8. Date of production/revision of this specification	13-6-2021
9. Aims of the Course	
To familiarize the student with the basic principles related to the foundations of surgery, which are related to anesthesia and intensive care . Special Objective : To teach the student the basic principles of surgery, including the applications of physiology and pathology in interpreting the changes and complications that occur in the human body as a result of injuries and various medical conditions and how to deal with the	

11. Course Structure					
Evaluation method	education method	Unit cours / name e or topic	Required learning outcomes	hours	the wee k
theory exam	Presentation of the scientific article	Acute appendicitis	Understand the lecture	hours of theory ٢	١٠
theory exam	Presentation of the scientific article	Breast diseases	Understand the lecture	hours of theory ٢	. ٢
theory exam	Presentation of the scientific article	Urinary syst em diseases and infection	Understand the lecture	hours of theory ٢	. ٣
theory exam	Presentation of the scientific article	Chest trauma	Understand the lecture	hours of theory ٢	. ٤
theory exam	Presentation of the scientific article	Intestinal obstruction	Understand the lecture	hours of theory ٢	. ٥
theory exam	Presentation of the scientific article	Peritoneum	Understand the lecture	hours of theory ٢	. ٦
theory exam	Presentation of the scientific article	Thyroid	Understand the lecture	hours of theory ٢	. ٧

C. Thinking Skills

C1The foundations of surgery is a basic science for students of medical technical colleges

C 2 -A clear conception of inflammatory diseases in terms of diagnosis and treatment

C 3 -Studying the stages of disease progression in the patient

C 4 -Relationship of patients requiring surgical operations to anesthesia, its types ، and intensive care

Teaching and learning methods
The lecture was given by the instructor by displaying information

Evaluation methods
exams and daily surprise exams monthly theory and bi- Monthly
other skills related to employability and) skills General and transferable - D .(personal development surgical The student will be acquainted with the theoretical foundations of - D1 diseases Clinical examinations required for diseases -٢ D student acquires the skill of recognizing diseases and methods of The -٣ D treating them Acquiring the skills of preparing the patient for surgeries and how to -٤ D monitor the patient after the operation

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Oxford handbook of clinical surgery 4th edition Bailey and Love Short practice in surgery
Special requirements (include for example workshops, periodicals, IT software, websites)	The American Journal of Surgery
Community-based facilities (include for example, guest Lectures , internship , field studies)	Electronic teaching improvement lectures(new methods of circumcision)

13. Admissions	
Pre-requisites	
Minimum number of students	50
Maximum number of students	142

Anesthesia techniques

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Madenat alelem university collage
2. University Department/Centre	Anesthesia techniques
3. Course title/code	Computer applications
4. Program (s) to which it contributes	
5. Modes of Attendance offered	Weekly theoretical and practical
6. Semester/Year	yearly
7. Number of hours tuition (total)	90 hours
8. Date of production/revision of this specification	2021 /٦ /٩
9. Aims of the Course	
Knowing the components of the calculator and how to enter data and distinguish its types, save , retrieve .And take advantage of statistical and educational programs and flowcharts .Run applications and deal with commands on the computer	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode
A- Knowledge and Understanding A1 - That the student familiarize himself with the SPSS program, its concept and operation, and the steps of data analysis A2- That the student recognize the components of the main screen, enter data, save and retrieve data A3 - The applicant should identify the types of data, sort and exchange data, and determine the statistical procedure A 4- That the request knows how to include a variable or case and analysis. and descriptive statistics A 5 - That the student knows how to make statistical summaries and extract Reports on rows and columns and dealing with charts and shovels and others. A6 - That the student knows how to compare means and compare between means Variables (correlate) or (regression) and on most of the important commands in the program A 7 - Getting to know the body Human of Encyclopedia program and its concept Run it, learn about the main screen components, deal with data, and search steps for it Learn the vocabulary of the human body A8 - Getting acquainted with the Work Body program, its concept and operation, and for the student to identify the components of the program The main screen and dealing with important options and menus A 9 - Addressing the offers and explanations provided by the program to various parts of the body, such as Muscles, Nervous ..... , etc. A10 - Making use of the voice or pronunciation of the vocabulary in the program, as well as the existing kinetic films and broaching To the health of the community by choosing Fitness & Health as well as choosing useful lessons leasons Or quick tests, as well as choosing living to identify the causes of deaths, births, and others
B. Subject-specific skills B1 - The applicant should deal with the computer in a practical way B2 - That the student performs some tasks, such as entering data manually or importing it from Excel B3 - The student should deal with modern applications and create some reports to increase his skill B-4 - That the student enters the useful programs in his specialization and learns how to research it
A. Teaching and Learning Methods
• Forming groups of students to follow the developments of the course • class discussions

- Search and think
- Scientific Initiatives
- Independence of opinion from scientific debate

B. Assessment methods

Short surprise exams
Reports and assignments
Dialogues and discussions
Follow-up and investigation
Contribute to the scientific additions to the course

C. Thinking Skills
C1.Experimental thinking
C2. Exploratory thinking
C3. Critical thinking
C4 Inductive thinking.

Teaching and Learning Methods

D. General and Transferable Skills (other skills relevant to employability and personal development)
D 1- The student behaves appropriately in the job interview
D- The student must pass the professional exams
D 3- That the student develops himself after graduation
D4 - The student uses the available means to increase his efficiency

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	• Norusis, M. (2008). SPSS 16.0 advanced).statistical procedures companion .Prentice Hall Press • Morgan, G. A., Barrett, K. C., Leech, N. L., & Gloeckner, G. W. (2019). IBM SPSS for introductory statistics: Use and interpretation. Routledge

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
١	٢theoretical / 1 practical	Understanding The lecture	Introduction of spss	lecture/lab	short exam And the sudden exam and daily activity
٢	2 theoretical / 1 practical	Understanding The lecture	view Variable	lecture/lab	short exam And the sudden exam and daily activity
٣	2 theoretical / 1 practical	Understanding The lecture	Data view	lecture/lab	short exam And the sudden exam and daily activity
٤	2 theoretical / 1 practical	Understanding The lecture	Transformation	lecture/lab	short exam And the sudden exam and daily activity
٥	2 theoretical / 1 practical	Understanding The lecture	analysis	lecture/lab	short exam And the sudden exam and daily activity
٦	2 theoretical / 1 practical	Understanding The lecture	analysis	lecture/lab	short exam And the sudden exam and daily activity
٧	2 theoretical / 1 practical	Understanding The lecture	analysis	lecture/lab	short exam And the sudden exam and daily activity
٨			exam		
٩	2 theoretical / 1 practical	Understanding The lecture	descriptive statistic Frequencies	lecture/lab	short exam And the sudden exam and daily activity
١٠	2 theoretical / 1 practical	Understanding The lecture	compare means correlate regression	lecture/lab	short exam And the sudden exam and daily activity
١١	2 theoretical / 1 practical	Understanding The lecture	Variance and standard deviation	lecture/lab	short exam And the sudden exam and daily activity
١٢	2 theoretical / 1 practical	Understanding The lecture	Non-parametric test	lecture/lab	short exam And the sudden exam and daily activity
١٣	2 theoretical / 1 practical	Understanding The lecture	Non-parametric test	lecture/lab	short exam And the sudden exam and daily activity
١٤	2 theoretical / 1 practical	Understanding The lecture	Summarize cross tabs) Custom table (basic table) Anova Models (one - way) non parametric methods (one sample, two sample, independent, two samples related, several samples independent, several sample related)	lecture/lab	short exam And the sudden exam and daily activity
١٥			exam		
١٦	2 theoretical / 1 practical	Understanding The lecture		lecture/lab	short exam And the sudden exam and daily activity

١٧	2 theoretical / 1 practical	Understanding The lecture		lecture/lab	short exam And the sudden exam and daily activity
١٨	2 theoretical / 1 practical	Understanding The lecture	of Encyclopedia Humman body	lecture/lab	short exam And the sudden exam and daily activity
١٩	2 theoretical / 1 practical	Understanding The lecture	The main components of the application	lecture/lab	short exam And the sudden exam and daily activity
٢٠	2 theoretical / 1 practical	Understanding The lecture	The main components of the application	lecture/lab	short exam And the sudden exam and daily activity
٢١	2 theoretical / 1 practical	Understanding The lecture	The main components of the application	lecture/lab	short exam And the sudden exam and daily activity
٢٢	2 theoretical / 1 practical	Understanding The lecture	works Body Health & Fitness Living Lessons	lecture/lab	short exam And the sudden exam and daily activity
٢٣			exam		
٢٤	2 theoretical / 1 practical	Understanding The lecture	works Body Health & Fitness Living Lessons	lecture/lab	short exam And the sudden exam and daily activity
25	2 theoretical / 1 practical	Understanding The lecture	works Body Health & Fitness Living Lessons	lecture/lab	short exam And the sudden exam and daily activity
26	2 theoretical / 1 practical	Understanding The lecture	works Body Health & Fitness Living Lessons	lecture/lab	short exam And the sudden exam and daily activity
27	2 theoretical / 1 practical	Understanding The lecture	works Body Health & Fitness Living Lessons		
28			works Body Health & Fitness Living Lessons		
29			exam		
30			works Body Health & Fitness Living Lessons		

Special requirements (include for example workshops, periodicals, IT software, websites)	Scientific Journals

Community-based facilities (include for example, guest Lectures , internship , field studies)	internship

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

ICU1

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	City of Science University College
2. University Department/Centre	Anesthesia and intensive care technique
3. Course title/code	ICU1
4. Programme(s) to which it contributes	ICU
5. Modes of Attendance offered	weekly (theoretical+ LAB)
6. Semester/Year	Yearly
7. Number of hours tuition (total)	150
8. Date of production/revision of this specification	22 / 6 / 2021
9. Aims of the Course teacher. 1. Understand the responsibilities that will be placed upon him. 2. Teaching the subject aims to familiarize the student with the basics of using and maintaining devices. 3. Determining the appropriate training pattern according to the work site. 4. Familiarity with all anesthesia devices. 5. Act wisely on how to manage the patient in the event of an emergency situation.	

10· Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

A1. Teaching the course aims to provide students with knowledge about the basics Of using and maintaining intensive care devices in intensive care units.
A2.
A3.

B. Subject-specific skills

B1. At the end of the year, the student will be able to maintain the equipment.
B2. Operating the devices
B3. Disassemble and re-install the devices

Teaching and Learning Methods

The lecture

Assessment methods

Monthly exam

C. Thinking Skills

C1. Intensive care is an essential science for students of medical technical colleges
C2. A clear perception of all anesthesia devices from a medical point of view

D. Transferred general and qualification skills (other skills related to Employability and personal development).

D1. To be able to understand and operate anesthesia machines
D.2. Compliance with all recommendations and ethics related to professional behavior
D 3. To love his profession
D. Creativity in his field of work

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1+2	2 theory	understand the lecture	Introduction to ICU	lecture	Short exam
3+4	2 theory	understand the lecture	Lung physiology and volumes	lecture	Short exam
5+6	2 theory	understand the lecture	O2 and CO2 in blood	lecture	Short exam
7+8	2 theory	understand the lecture	Respiratory failure	lecture	Short exam
9+10	2 theory	understand the lecture	CPAP& BIPAP	lecture	Short exam
11+12	2 theory	understand the lecture	Modes of ventilation	lecture	Short exam
13+14	2 theory	understand the lecture	Body fluids & electrolytes	lecture	Short exam
15+16	2 theory	understand the lecture	Shock	lecture	Short exam
17+18	2 theory	understand the lecture	Autonomic nervous system	lecture	Short exam
19+20	2 theory	understand the lecture	Cardiac arrest	lecture	Short exam
21+22	2 theory	understand the lecture	Acid base balance	lecture	Short exam
23+24	2 theory	understand the lecture	HCO3 & ABG	lecture	Short exam
25+26	2 theory	understand the lecture	Intra cranial pressure	lecture	Short exam

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	ICU book, handbook of ICU,
Special requirements (include for example workshops, periodicals, IT software, websites)	Scientific journals
Community-based facilities (include for example, guest Lectures , internship , field studies)	E-library

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

وصف المواد

الدراسية

المرحلة الرابعة

Anesthesia equipments 3

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Department of anesthesia
3. Course title/code	Anesthesia equipments 3
4. Programme(s) to which it contributes	Bachelor degree / anesthesia technologies
5. Modes of Attendance offered	Weekly(theory)
6. Semester/Year	4th academic year
7. Number of hours tuition (total)	120
8. Date of production/revision of this specification	21-6-2021
9. Aims of the Course	
1.the student should understand his role and responsibilities in providing anesthesia care	
2. educating the student about different equipments that are present in the operation rooms & intensive care units	
3. knowledge about the main features of these equipments	
4. knowledge about the performance of these equipments while providing anesthesia or while providing monitoring care in the intensive care units	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1. general and detailed knowledge about the equipments that are used in operation room and intensive care unit.
A2. knowledge about the role & importance of every equipment in providing the health care to the patient
A3..knowledge about how to operate different equipment & observing their performance while giving anesthesia or while monitoring of the patient in the intensive care unit
A4. knowledge about how to use the equipments in skillful and safe way that avoid harming the patient.
A5..knowledge about the sins and alarm signals coming from the equipments which are related to either device performance or the patient health condition
A6 . knowledge about the malfunctions that can affect these equipments & how to deal with such events in a manner that wouldn't affect the fluency of patient care

.

B. Subject-specific skills

B1. B1.te skill of operating different equipments and putting them in ready state to provide care for the patient

B2.skills about the devices used for maintaining patient airway

B3. Skills about the devices used for providing general & neuroaxial anesthesia

Teaching and Learning Methods

Smart White board,
Posters,
Handouts,
Lecture,

Assessment methods

Theory exam.
Class activities

C. Thinking Skills

. C1. thinking about his role within a team and performing within the limits of that role

C2. thinking about how to behave in situations where there is malfunction of any equipment happening while providing the care

C3. quick to think about the equipments needed for specific patient & specific procedure

C4. suggesting alternatives in case of unavailability of some equipments in a manner that ensure providing correct and safe care

Teaching and Learning Methods

Questioning
Classroom Discussion and Debates
Written Assignments

Assessment methods

Theory exam.
Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Leadership skills
D2. Listening skills
D3. Learning new skills
D4. Problem solving skills

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1 - 5	4 H	lecture Understanding	**Suction units**	lecture	Quick,
6 - 10	4 H	lecture Understanding	**Ventilators**	lecture	Quick
11 - 20	4 H	lecture Understanding	**Monitoring system**	lecture	Quick
21 - 24	4 H	lecture Understanding	**Electrical hazards**	lecture	Quick
25 - 27	4 H	lecture Understanding	**Layout+ contents of anesthetics room and R.C.U**	lecture	Quick
28 - 30	4 H	lecture Understanding	**Electro cardiography**	lecture	Quick
				l	

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1.**Essentials of Equipment in Anaesthesia, Critical Care** 2.WARD'S ANAESTHETIC EQUIPMENT
Special requirements (include for example workshops, periodicals, IT software, websites)	The Arab Medical Library E-Library -
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	

Maximum number of students	

BASICS OF SURGERY

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	**Madent aleleam university collage**
2. University Department/Centre	**Department of anesthesia**
3. Course title/code	**BASICS OF SURGERY**
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	**Weekly 2 hours theoretical +2houres practical**
6. Semester/Year	**year**
Grade	**4th grade**
7. Number of hours tuition (total)	**120**
8. Date of production/revision of this specification	**15/6/2021**
9. Aims of the Course	
To familiarize the student with the basic principles related to the foundations of surgery, which are related to anesthesia and intensive care . Special Objective : To teach the student the basic principles of surgery, including the applications of physiology and pathology in interpreting the changes and complications that occur in the human body as a result of injuries and various medical conditions and how to deal with the	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

. To student know the effect of anesthesia on the organs of the body

B. Subject-specific skills
Conducting clinical examinations of patients in the surgical wards

Teaching and Learning Methods

-١The scientific material is delivered theoretically by the instructor
. ٢ The teacher supervises the practical training of students and corrects their scientific ideas

Assessment methods

daily exam
monthly exam
Daily attendance and participation

C. Thinking Skills
direct questions
Homework

D. General and Transferable Skills (other skills relevant to employability and personal development)

1) **The student is introduced to the theoretical foundations of surgical diseases**
2) **- Clinical examinations required for diseases**
3) **The student acquires the skill of recognizing diseases and methods of treating them**
4) **Acquiring the skills of preparing the patient for surgeries and how to monitor the patient after the operation**

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	٢theoretical 2 practical	Understanding the lecture	Shock (types, patho physiology, management)	lecture	Theory and practical exam
2	2theoretical 2 practical	ure	Burn, plastic surgery		
٣	2 theoretical 2 practical		Traumatology .		
4	2 theoretical 2 practical		Traumatology		
5	2 theoretical 2 practical		Warfare injuries		
6	2 theoretical 2 practical		Head injuries, SOL, mangement of unconscious patient		
7	2 theoretical 2 practical		Spinal injuries, peripheral nerve injuries		
8	2 theoretical 2 practical		Tracheostomy, otolaryngiology		
9	2 theoretical 2 practical		Ophthalmology		
10	2 theoretical 2 practical		Orthopaedic Surgery: Fractures & Dislocations		
11	2 theoretical 2 practical		Osteomyelitis: Acute & Chronic , Tumours of musculoskeletal system		
12	2 theoretical 2 practical		Wrist, hand, foot		
13	2 theoretical 2 practical		Wrist, hand, foot		
14	2 theoretical 2 practical		Endocrinology: Pituitary gland		
15	2 theoretical 2 practical		Thyroid gland		

16	2 theoretical 2 practical		Parathyroid gland & calcium .balance		
17	2 theoretical 2 practical		Adrenal gland		
18	2 theoretical 2 practical		D.M : complications, management, preparation for . operation		
19	2 theoretical 2 practical		Preparation of patient with obstructive jaundice		
20	2 theoretical 2 practical		Preparation of patient with portal hypertension due to cirrhosis		
21	2 theoretical 2 practical		Management of haematemesis, melaena		
22	2 theoretical 2 practical		Management of flail haemopneumothorax, chest		
23	12. Infrastructure				
	2 practical		ARDS failure,		
24	2 theoretical 2 practical		Management of coagulopathy, DIC		
25	2 theoretical 2 practical		Management of septicaemia, MOFS		
26	2 theoretical 2 practical		Surgical Precautions in theater & ICU		
27	2 theoretical 2 practical		Transplantation		
28	2 theoretical 2 practical		New Techniques in Surgery		
29	2 theoretical 2 practical		Emergencies in Female's genital Ectopic Injuries, tract: Prenancy		
30	2 theoretical 2 practical		Caesarean section Abortion, hysterectomy ,		

Required reading: **· CORE TEXTS** **· COURSE MATERIALS** **· OTHER**	**Oxford handbook of clinical surgery 4th edition** **Bailey and Love Short practice in surgery** **Churchill's Pocketbook of Surgery, 4th Edition**
Special requirements (include for example workshops, periodicals, IT software, websites)	**The American Journal of Surgery**
Community-based facilities (include for example, guest Lectures , internship , field studies)	**Giving lectures within the framework of continuous e-learning development**

13. Admissions	
Pre-requisites	
Minimum number of students	**60**
Maximum number of students	**124**

Anaesthesia

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Anesthesia and intensive care techniques
3. Course title/code	Anaesthesia
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Weekly (Theoretical & Practical)
6. Semester/Year	
7. Number of hours tuition (total)	180 hr.
8. Date of production/revision of this specification	20-6-2021
9. Aims of the Course	
1. Understand the responsibilities that will be placed upon him. 2- Recognizing some special cases in anesthesia and choosing the appropriate	

anesthesia techniques for them

3- Teaching the subject aims to familiarize the student with the basics of anesthesia

4- Familiarize yourself with all the modern and scientific techniques and methods for anesthesia of the patient

5- Act wisely when an emergency situation occurs in the operating theaters and how to deal with it.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A - knowledge and understanding

A1- Knows all types of anesthesia methods and chooses the appropriate technique for each case

A2 - Understand those ways

A3- Explains the steps to be taken for each case

A4- Assess the situation and the available anesthesia methods

B - Subject-specific skills

B1 - Prepare the patient for anesthesia

B2 - Dealing with emergency situations with full knowledge

Teaching and Learning Methods

Smart White board,
Posters,

Handouts, Lecture,
Teaching and Learning Methods
Questioning Classroom Discussion and Debates Written Assignments
Assessment methods
Theory exam. Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. Leadership skills D2. Listening skills D3. Learning new skills

١١. بنية المقرر					
Assessment Method	Teaching Method	Unit/Module or Topic Title	ILOs	Hours	Week
Quick,	lecture	Maternal Anatomical & Physiological changes	lecture Understanding	6H	1
Quick	lecture	Pediatric Anatomical & Physiological	lecture Understanding	6H	2

		difference			
Quick	lecture	Geriatric Anatomical & Physiological changes	lecture Understanding	6H	3
Quick	lecture	Anaesthesia-Effects on Respiratory function	lecture Understanding	6H	4
Quick	lecture	Endotracheal intubation-difficult intubation	lecture Understanding	6H	5
Quick	lecture	Positioning in anaesthesia , legal point about surgery, regent surgery, emergency surgery	lecture Understanding	4 H	6
Quick	lecture	Hypoxia during surgery and post operative legal point about pre-medical visit & physicians consultations	lecture Understanding		7
Quick	lecture	Obeisity & Anaesthesia	lecture Understanding		8
Quick	lecture	Alcohol & Anaesthesia	lecture Understanding		9
Quick	lecture	Renal Disease & Anaesthesia	lecture Understanding		10
Quick	lecture	Liver Disease &	lecture Understanding		11

		Anaesthesia			
Quick	lecture	Coronary artery diseases in non-cardiac surgery & Hypertension, Atherosclerosis, Heart failure, old & Valvular lesions & Anaesthesia, General note about open heart surgery.			12 & 13&15 &16
Quick	lecture	One lung anaesthesia, Bronchoscopy.			17
Quick	lecture	Diabetes Mellitis & Anaesthesia.			18 &19
Quick	lecture	Thyroid surgery & Anaesthesia, Pheochromoeytoma			20
Quick	lecture	T.U.R., Pyloric stenosis, Burns			21

Quick	lecture	Upper air way obstruction causes & anaesthesia			22 & 23
Quick	lecture	Massive blood transfusion			24
Quick	lecture	Control of I.c.p, Head injury, Air embolism and emergency			25

Quick	lecture	Criteria for brain death, General notes about neuroanaesthesia			26
Quick	lecture	Day clinic , Dental Anaesthesia			27
Quick	lecture	Techniques of local analgesia Indication, contra indication, upper limb problems, lower limb problems, toxic reaction	lecture Understanding		28
Quick	lecture	Shock syndrome & Anaesthesia in general .	lecture Understanding		29
Quick	lecture	Hypersensitivity reactions & Anaesthesia “in general	lecture Understanding		30

13. Admissions	
Pre-requisites	
Minimum number of students	35
Maximum number of students	90

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Fundamentals of Anaesthesia
Special requirements (include for example workshops, periodicals, IT software, websites)	The Medical Library E-Library -
Community-based facilities (include for example, guest Lectures , internship , field studies)	

Fundamentals of Nursing I

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Madenat Al-elem University college
2. University Department/Centre	Department of Anesthesia Techniques
3. Course title/code	Fundamentals of Nursing (I)
4. Programme(s) to which it contributes	Part of a bachelor degree in Anesthesia Techniques
5. Modes of Attendance offered	Season
6. Semester/Year	fourth academic year / First semester
7. Number of hours tuition (total)	Theory/ (1) hours weekly of (14) weeks + practices /(4) hours weekly of (14) weeks = (70 hours)
8. Date of production/revision of this specification	27/6/2021
9. Aims of the Course	
1. Recognize the principle underlying all nursing intervention procedures related to providing care to client in adult nursing care.	
2. Apply a systematic approach of analyzing the patient's problems.	
3. Utilize systematic approach of analyzing the problems.	
4. Perform basic nursing skills related to various client conditions.	
5. Utilize principles of medical /surgical asepsis and universal precautions in client care.	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding
A1. Define nursing intervention procedures
A2. Describe systematic approach of analyzing the patient's problems
A3. Describe basic nursing skills related to various client conditions
A4. Identify the principles of medical /surgical asepsis and universal precautions

B. Subject-specific skills
B1. Systematic approach of analyzing the patient's problems
B2. Nursing intervention procedures
B3. basic nursing skills related to various client conditions

Teaching and Learning Methods

1. Smart White board
2. Posters،
3. Handouts،
4. Electronic Lecture،
5. Skill lab.

Assessment methods

1. Theory exam
2. Practice exam
3. Class activities

C. Thinking Skills
C1. Interpretation
C2. Analysis
C3. Evaluation
C4. Explanation

Teaching and Learning Methods

1. Questioning
2. Classroom Discussion and Debates
3. Written Assignments

Assessment methods

1. Theory exam.
2. Class activities

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Leadership skills

D2. Listening skills

D3. Learning new skills

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	5	Understand the lecture	Introduction about nursing	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
2	5	Understand the lecture	Concept of nursing process and stages	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
3-4	5	Understand the lecture	Preoperative nursing management and general physical Assessment	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
5-6	5	Understand the lecture	Pre-anesthetic, intra anesthetic and post anesthetic management of patient	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
7-9	5	Understand the lecture	Intraoperative nursing management	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
10-12	5	Understand the lecture	Nursing care in the recovery room	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
13-14	5	Understand the lecture	Postoperative nursing care	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
15-17	5	Understand the lecture	management of patient in the cardiac care unit	**Smart Whit board, Posters,**	Theory exam. Practices exam.

				Handouts, Lecture, Skill lab.	
18-19	5	Understand the lecture	management of the cardiovascular surgery patient	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
20-21	5	Understand the lecture	nursing management of intravenous therapy	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
22-23	5	Understand the lecture	management of patient with neurology disfunction ((unconscious patient	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
24-25	5	Understand the lecture	management of patient with musculo-skeletal dis-function and trauma, fracture	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
26-27	5	Understand the lecture	critical care of some cases	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.
28-30	5	Understand the lecture	First Aid.	**Smart Whit board, Posters, Handouts, Lecture, Skill lab.**	Theory exam. Practices exam.

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Taylor , C., et al.: Fundamentals of Nursing : The Art and Science of Nursing care, 7th ed.,2011, Lippincott White, L.; Duncan, G.; and Baumle, W.: Foundation of Nursing, 3rd ed., 2011, Australia: CENGAGE
Special requirements (include for example workshops, periodicals, IT software, websites)	

Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	

ICU

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	City of Science University College
2. University Department/Centre	Anesthesia and intensive care techniq
3. Course title/code	Dr. Abduladheem Ahmed Salman
4. Programme(s) to which it contributes	ICU
5. Modes of Attendance offered	weekly (theoretical)
6. Semester/Year	Yearly
7. Number of hours tuition (total)	150
8. Date of production/revision of this specification	22 / 6 / 2021
9. Aims of the Course 1. Understand the responsibilities that will be placed upon him. 2. Teaching the subject aims to familiarize the student with the basics of using and maintaining devices. 3. Determining the appropriate training pattern according to the work site. 4. Familiarity with all anesthesia devices. 5. Act wisely on how to manage the patient in the event of an emergency situation.	

10· Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

A1. Teaching the course aims to provide students with knowledge about the basics of using and maintaining intensive care devices in intensive care units.

A2.

A3.

A4.

A5.

A6 .

B. Subject-specific skills

B1. At the end of the year, the student will be able to maintain the equipment.

B2. Operating the devices

B3. Disassemble and re-install the devices

Teaching and Learning Methods

The lectures

Assessment methods

Monthly exam

C. Thinking Skills

C1. Intensive care is an essential science for students of medical technical colleges

C2. A clear perception of all anesthesia devices from a medical point of view

D. Transferred general and qualification skills (other skills related to Employability and personal development).

D1. To be able to understand and operate anesthesia machines

D.2. Compliance with all recommendations and ethics related to professional behavior

D 3. To love his profession

D. Creativity in his field of work

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1+2	2 theory	understand the lecture	O2 cascade	lecture	Short exam
3+4	2 theory	understand the lecture	CPAP & BIPAP	lecture	Short exam
5+6	2 theory	understand the lecture	Modes of ventilation	lecture	Short exam
7+8	2 theory	understand the lecture	Pressure volume loop &compliance	lecture	Short exam
9+10	2 theory	understand the lecture	Weaning from ventilator	lecture	Short exam
11+12	2 theory	understand the lecture	ARDS	lecture	Short exam
13+14	2 theory	understand the lecture	COPD	lecture	Short exam
15+16	2 theory	understand the lecture	Pulmonary embolism	lecture	Short exam
17+18	2 theory	understand the lecture	Cardiovascular physiology	lecture	Short exam
19+20	2 theory	understand the lecture	Hypovolemic shock	lecture	Short exam
21+22	2 theory	understand the lecture	Septic shock	lecture	Short exam
23+24	2 theory	understand the lecture	Renal system	lecture	Short exam
25+26	2 theory	understand the lecture	Preeclampsia	lecture	Short exam
27+28	2 theory	understand the lecture	Autonomic N S & acid base balance	lecture	Short exam
29+30	2 theory	understand the lecture	Status epilepticus and asthmaticus	lecture	Short exam

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	ICU book, handbook of ICU,

Special requirements (include for example workshops, periodicals, IT software, websites)	Scientific journals
Community-based facilities (include for example, guest Lectures , internship , field studies)	e-library

13. Admissions	
Pre-requisites	
Minimum number of students	
Maximum number of students	