



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER



The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Course Name: Anesthesia and Intensive Care

1	Course title	Anesthesia and Intensive Care
2	Course number	0511401
3	Credit hours (theory, practical)	4.5
	Contact hours (theory, practical)	Theory: 12:30 MD - 01:30 PM/ Practical: 09:00AM-12:30 MD and 01:30 PM - 04:00 PM
4	Prerequisites/co -requisites	Successfully passing third year.
5	Program title	Doctor of Medicine
6	Program code	Awaiting assignment.
7	Awarding institution	University of Jordan
8	Faculty	Faculty of Medicine
9	Department	Department of Anesthesia and Intensive Care
10	Level of course	Fourth Year
11	Year of study and semester (s)	Fourth Year: First or second semester as per distribution.
12	Final Qualification	Successful completion of the course
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	December 26th, 2020

16. Course Coordinator:

Dr_Ibraheem QUDAISAT

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17. Other instructors:

1. **Prof. Sami ABO-HALAWEH /Work Phone** 06 5353666 ext 2389 / 2390 / **Office Location** Jordan University Hospital/ Operating Theatres Floor/ **Office Hours:** Can be easily arranged subject to clinical work load/ **Email:** sami_halaweh@yahoo.com.
2. **Prof. Sobhi AL-GHANEM / Work Phone:** 06 5353666 ext 2382 / 2390/ **Office Location** Jordan university Hospital/ **Office Hours:** Can be easily arranged subject to clinical work load **E-mail:** alghanem@ju.edu.jo
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 10. **Dr Ahmad Shahin:** 06 5353666 ext / 2390: **Office Location:** Jordan University Hospital Operating Theatres Floor/ **Office Hours:** Can be easily arranged subject to clinical work load /**Email:**
 11. **Rd Ala'a Al Hami:** 06 5353666 ext / 2390: **Office Location:** Jordan University Hospital Operating Theatres Floor/ **Office Hours:** Can be easily arranged subject to clinical work load /**Email:**

18. Course Description:

The Anesthesia Course for undergraduate medical students at Jordan University is a one -month Course in the department of Anesthesia at Jordan University Hospital. It is a separate Minor course for medical students with 4.5 credit hours weight.

Students join this course in their Fourth undergraduate year. In the first week, students are given lectures and training in the faculty's skills lab about essential life-saving procedures. In the next three weeks, students will be weekly assigned to an operating room with the concept that each student will go through different surgical specialties and be familiarized with the different anesthetic care plans. Two days will be spent in the Intensive Care Unit.

There are 20 seminars that cover the most important topics in anesthesia relevant to undergraduate medical students.

During the in-theatre time, student will be introduced to the practice of Anesthesia, familiarized with anesthesia machine, Equipments, drugs, and procedures. Each Operating theatre is covered by an anesthesia team consisting of a consultant anesthetist (who is a teaching staff member), a senior anesthesia resident doctor, a junior anesthesia resident doctor and an anesthesia technician.

1. 19. Course aims and outcomes:

2.

A- Aims:

The aims of Anesthesia and Intensive care course for undergraduate medical student are:

- 1- The medical graduate will be educated about technical aspects of Anesthesia.
- 2- The medical graduate will be aware of the role of Anesthesia as a perioperative medical care specialty.
- 3- The medical graduate will be aware of how anesthesia relates to other specialties in the multidisciplinary care plan of patients.
- 4- The medical graduate will be fit enough to deal confidently with cardiopulmonary resuscitation scenarios.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

A. Knowledge and Understanding: *Student is expected to:*

1. Recognize the necessary medical information that relates to the conduct of Anesthesia.
2. Understand how the specialty of anesthesia relates to other medical specialties and the

necessity and ways of good communication with them.
3. Be aware of different types of anesthesia available, and their case-matching.
4. Be aware of the pharmacologic knowledge of drugs used during anesthesia.
5. Understand the structure, function, and multidisciplinary role of Intensive care unit.
6. Understand the basic scientific concepts underlying airway management and cardiopulmonary resuscitation.
7. Understand the basic concepts and aspects of intravascular access insertion.
B. Intellectual Analytical and Cognitive Skills: <i>Student is expected to:</i>
1. Be able to integrate his knowledge from patient assessment and anesthetic drugs and procedures for the best safe match of care and creation of a management plan.
2. Be able to provide counselling to patients regarding their anesthetic care.
3. Be able to communicate with other specialties involved in the total care of patients.
4. Be able to apply, read and analyze data from monitoring equipment.
5. Be able to assume leadership role during cardiopulmonary resuscitation.
C. Subject- Specific Skills: Students is expected to:
1. Have acquired adequate competency in securing vascular access.
2. Have acquired competency in safe drug preparation and administration.
3. Have acquired adequate competency of airway management skills.
4. Have acquired adequate competency in cardiopulmonary resuscitation skills.
5. Have acquired adequate competency of airway management skills.
D. Transferable Key Skills: Students is expected to
1. Be a good and efficient team member.
2. Be able to assume leadership roles in critical medical conditions.
3. Be able to prioritize management issues in their plan.
4. Be good at verbal and written communication about patients.
5. Be able to deal with technology of monitoring equipment

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Airway Management	First week	Dr Ibraheem Qudaisat	Building Knowledge and skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Intravenous , Arterial and Central Lines	First week	Dr Mahmoud Al-Mustafa	Building Knowledge and skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Cardiopulmonary	First	Prof. Sami	Building Knowledge	Assessment	Seminars,

Resuscitation 1	week	Abo Halaweh	and skills in the subject	of attendance and participation + written Exam	assigned reference books
Regional anesthesia	First week	Dr Walid AL-Zuabi	Building Knowledge and skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Cardiopulmonary Resuscitation 2	First week	Prof. Islam Massad	Building Knowledge and skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Introduction to Anesthesia- Understanding the Concept	First week	Dr Ibraheem Qudaisat	Building Knowledge and transferrable skills	Assessment of attendance and participation + written Exam	Lecturer and assigned reference books
Pre-Operative patient Assessment. Preparation and Premedication	2 nd Week	Prof Bashir Atiyat	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Fluid Management and Blood Transfusion	2 nd Week	Dr Mahmoud Al-Mustafa	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Intravenous Anesthetic Drugs	2 nd Week	Dr Abdel Kareem AL-Oweidi	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Inhalational anesthetic Drugs	2 nd Week	Dr Mustafa Rabay'ah	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Neuromuscular Blocking Drugs	2 nd Week	Prof Subhi AL-Ghanem	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Hypoxia and Oxygen Therapy	3 rd Week	Prof Subhi AL-Ghanem	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Respiratory failure	3 rd	Dr Abdel	Building Knowledge	Assessment	Seminars,

	Week	Kareem AL-Oweidi	and cognitive skills in the subject	of attendance and participation + written Exam	assigned reference books
Pain and Narcotic Drugs	3 rd Week	Prof. Bashir Atyat	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Anesthesia Equipment	3 rd Week	Pro. Sobhi Al-Ghanem	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Monitoring in Anesthesia and Intensive Care	3 rd Week	Mustafa Rabab'ah	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Trauma	4 th week	Pro. Sobhi Al-Ghanem	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Shock	4 th week	Dr Omar Ababneh	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Emergency Anesthesia	4 th week	Pro. Sobhi Al-Ghanem	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Pediatric anesthesia	4 th week	Dr Omar Ababneh	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Review and Feedback	4 th week	Dr Ibraheem Qudaisat & Head of Department	Building Knowledge and cognitive skills in the subject	Assessment of attendance and participation + written Exam	Seminars, assigned reference books
Hands on training in theater	Two	All staff	Building practical skills in anesthesia	Assessment of commitment and skills, OSCE Exam	Staff members, Residents
Hands on training	Two	All Staff	Building Practical	Assessment of	Staff

in theatre	days		skills in intensive care	commitment and skills, OSCE Exam	members, Residents
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21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

1. Skills Lab training using Manikins.
2. Lecture hall with audiovisual facilities.
3. Hands-on teaching in operating theatre.

Assignments

- 1- Airway management: students are asked to Participate in at least 10 Airway Management processes during your Anesthesia Rotation.
- 2- Intra-venous access: Students are asked to insert at least 5 intravenous canulas during your Anesthesia Rotation.
- 3- Preparation of intravenous drugs: Students are asked to take part in the preparation of intravenous drugs at least four times during your rotation to develop the skills of:
 - a. Doing the proper check of drugs (Scientific name, amount/concentration, correct route of administration, and expiry date.
 - b. Preparing required dilutions of drugs accurately.
 - c. ALWAYS checking FUNCTION OF I.V lines before administration of drugs.
- 4- Applying Monitoring Equipment: Students are asked to take part in applying monitoring equipment and analyzing their readings under guidance from anesthetists.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Assessment		Point %	Date
Evaluation of performance	Attendance Participation Progress	20%	End of rotation
	OSCE exam	30%	End Rotation
	Final Exam	50%	End of Academic year

23. Course Policies:

A- Attendance policies: As per university Regulations: Absence should not exceed 15% of rotation days.

B- Absences from exams and handing in assignments on time: As per university Regulations: only legal excuses accepted after review by faculty administration.

C- Health and safety procedures: As per hospital policies and requirements: immunizations, scrubs, etc

D- Honesty policy regarding cheating, plagiarism, misbehavior: Those captured will be withdrawn from exam and referred to faculty's relevant disciplinary committee.

E- Grading policy: letter system as per university regulations.

F- Available university services that support achievement in the course: Lecture halls with audiovisual facilities, Skills Lab/ Library/ related hospital facilities.

24. Required equipment:

1. Skills lab manikins and equipment
2. Full Operating theatre scrubs
3. Operating theatre clog/ Overshoes.
4. Operating theatre equipment.

25. References:

A- Required book (s), assigned reading and audio-visuals:

1. **Lecture notes: Clinical Anesthesia.** Carl L. Gwinnutt, **Blackwell publishing**
2. **Perioperative Care, Anesthesia, pain Management, and Intensive Care.** Michael Avidan, Andrea M. R. Harvey, Jose Ponte, Julia Wendon, Robert Ginsburg. **CHURCHILL LIVINGSTONE**

B- Recommended books, materials, and media:

1. **Textbook of Anaesthesia:** Aitkenhead et al

2. Clinical Anesthesiology : G. Edward Morgani jr et al

26. Additional information:

A facebook course related page was established for communication, announcements, feedback and teaching support.

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File