



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Department:

Official Stamp:

Course Identification	
Course Name: Medical Ethics	Course Code and Number: MED 310
Number of Credit Hours: 1	Semester: Second
Course Status:	Teaching Language: English
Pre-requisite:	Course Coordinator:

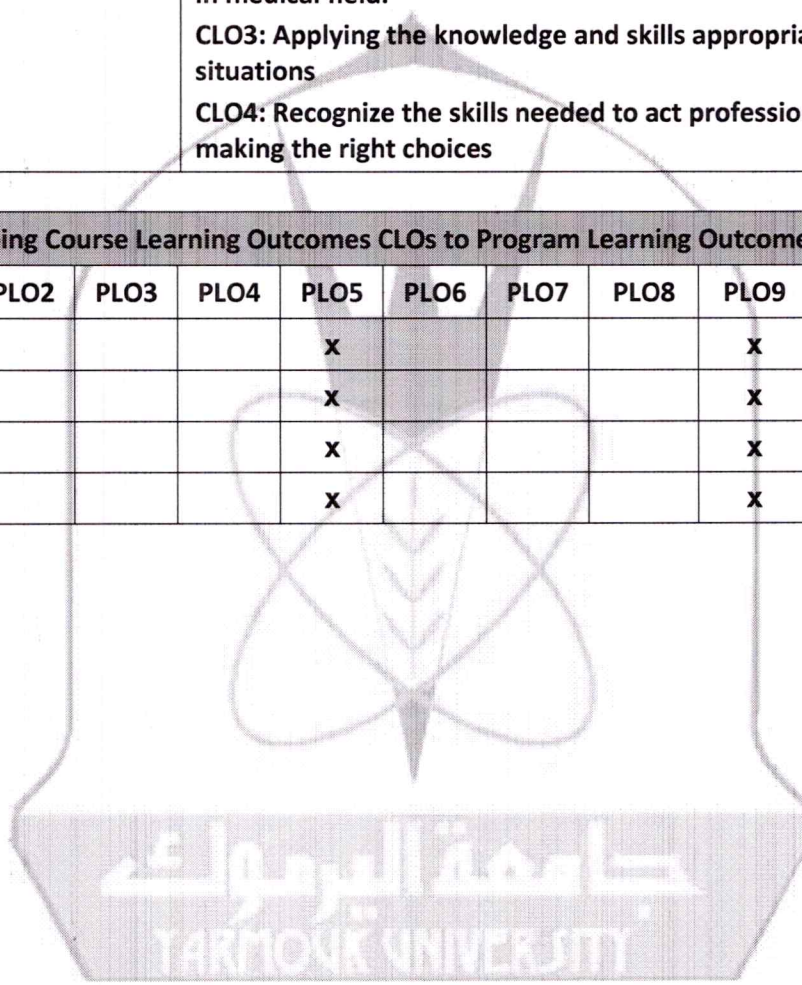
General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This course examines some of the ethical issues faced by medical professionals, various ethical decisions that are made and affect medical practice, and the fundamental moral principles and ethical values that underlie the view of the place of medical practices in life. It also concentrates on topics concerning biomedical ethics including access to healthcare, patient autonomy and informed consent, the right to die, disability and biomedical enhancements, in addition to new medical ethical issues that have appeared with recent development in medicine such as genetic testing and reproductive ethics. It also presents philosopher's approaches to specific issues in biomedical ethics by making use of theories and applying them to the real world. So, this course begins with an introduction to ethical theory and the philosophical study of bioethics.</p>
Course Objectives	<p>The main goal of this course is to introduce the student to a variety of issues involving ethics and professionalism that arise in the practice of medicine and to learn the philosophical skills to recognize moral questions in healthcare and medical decision-making. At the end of this course, the student is expected to:</p> <ol style="list-style-type: none">1- Achieve familiarity with basic ethical principles and understand how these can help in thinking through contemporary questions in medical ethics2- Explain the scope of patient-health provider relationship.3- Use their knowledge to anticipate and avoid ethical problems4- Articulate the complexity of end-of-life issues



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	5. To provide a foundation of thought on certain ethical issues faced in medical practice
Course Learning Outcomes (CLOs)	<p>CLO1: Consider and debate opposing arguments on the various topics and examine relevant case studies</p> <p>CLO2: Comprehend the basis of responsibilities especially relevant ethical principles that will enable them to make the right decisions in medical field.</p> <p>CLO3: Applying the knowledge and skills appropriately in various situations</p> <p>CLO4: Recognize the skills needed to act professionally after making the right choices</p>

Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs											
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CLO1					X				X		
CLO2					X				X		
CLO3					X				X		X
CLO4					X				X		





Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam		Exam	50%	1,2,3,4
Activities*	Quizzes			1,2,3,4
	Problem-based learning			1,2,3,4
	Clinical case discussion			1,2,3,4
	Online learning Resources			1,2,3,4
	Role-plays			1,2,3,4
Final Exam		Exam	50%	1,2,3,4

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1	Introduction & Principles of Medical Ethics	
Week 2	Ethical Approaches and Theories	
Week 3	Medicine as a Social Institution	
Week 4	The Doctor-Patient Relationship - II	
Week 5	Consent	
Week 6	Confidentiality and Medical Records	



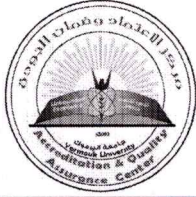
Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 7	Telling the truth and withholding information	
Week 8	Reproductive Medicine	
Week 9	End of life issues- - Do-Not-Resuscitate (DNR) Orders	
Week 10	Recourse allocation	
Week 11	Responsible conduct of research- I	
Week 12	Responsible conduct of research- II	
Week 13	Mental health	
Week 14	Genetics	
Week 15	Organ donation	
Week 16	Final Exam Week	

**Instruction method is as follows:

- **Face-to-Face course:** Face-to-face class
- **Online course:** Interactive synchronous or asynchronous
- **Blended course:** Face-to-face or Online (synchronous or asynchronous)

Main Textbook and References	
Main Textbook	Medical Ethics and Law: A curriculum for the 21st Century 3rd Edition Dominic Wilkinson, Jonathan Herring, and Julian Savulescu 2019
Other References	Principles of Biomedical Ethics 8th Edition, 2019, Beauchamp, Tom L., Childress, James F.



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Medical Ethics in Clinical Practice. 1st ed., 2019, Matjaž Zwitter
--

Policies and Instructions***	
Attendance	<p>حسب تعليمات جامعة اليرموك لمنح شهادة بكالوريوس في الطب المادة (7) على الطالب:</p> <ul style="list-style-type: none">المواظبة في حضور المحاضرات النظرية والمناقشات والتدريب العملي والسريري والزيارات الميدانية المقررة لكل مساق في الخطة الدراسية، ويقوم مدرس المساق بتسجيل الحضور والغياب وذلك على كشوفات خاصة.لا يسمح للطالب بالتغيب عن أكثر من (15%) من مجموع الساعات لكل مساق.إذا غاب الطالب أكثر من (15%) من مجموع الساعات المقررة دون عذر قهري أو عذر مرضي يقبل به مدرس المساق، فعلى مدرس المساق أن يحرم الطالب من التقدم لجميع الامتحانات اللاحقة لذلك المساق، ويوضع له الحد الأدنى لعامة المساق وهو (35%) محروم بسبب الغياب"، وتدخّل هذه النتيجة في حساب معدلة تلك السنة.إذا غاب الطالب أكثر من (15%) من مجموع الساعات المقررة لمساق ما وكان هذا الغياب بعذر قهري يقبله عميد الكلية، أو بعذر مرضي فيسمح العميد للطالب الاستمرار في المساق، ولا يجوز أن يتجاوز الغياب بمجموعه (30%) من الساعات، وفي الحالة التي يتجاوز فيها غياب الطالب بعذر قهري أو مرضي نسبة (30%) من السنة الدراسية، وذلك قبل بداية الامتحانات النهائية في الفصل، ويبلغ عميد الكلية فلمجلس الكلية اعتباره منسحباً بذلك لدراسته تلك السنة (باستثناء الفصل الأول أو الكورس دارة القبول والتسجيل خطياً) ويعتبر بذلك مؤجل لقبوله، ويستثنى من ذلك مساقات متطلبات الجامعة حيث تطبق عليها التعليمات العامة فيما يخص الانسحاب من المساقات <p>يشترط في العذر المرضي أن يكون بتقرير طبي صادر من المرجع الطبي المعتمد في جامعة اليرموك، وإذا تعذر ذلك فلعميد الكلية أن يعتمد التقرير المقدم أو يرفضه، وعلى الطالب أن يقدم التقرير الطبي المطلوب إلى العميد خلال أسبوع من تاريخ زوال العذر ويقوم العميد بإبلاغ مدرسي المواد التي يدرسها الطالب بقراره.</p>
Activities	
Late Submission	
Exams	<p>حسب تعليمات جامعة اليرموك لمنح شهادة بكالوريوس في الطب المادة (8) :</p> <ul style="list-style-type: none">تحسب العلامة النهائية لكل مساق من (100) ولأقرب رقم صحيح.a. العلامة النهائية لكل مساق هي مجموع علامات الامتحان النهائي وعلامات الأعمال الفصلية.b. يعقد الامتحان النهائي لكل مساق مرة واحدة في نهاية الفصل أو في نهاية السنة، وذلك حسب طبيعة المساق، أو عملياً شفوياً لمقرر المساق، ويجوز أن يشمل الامتحان النهائي جزءاً وشاملاً ويكون هذا الامتحان كتابياً تقارير لها نسبة مئوية معينة من العلامة يحددها القسم المعني.c. تشمل الأعمال الفصلية لكل مادة ما يلي:<ul style="list-style-type: none">i. الاختبارات الشفهية أو التقارير أو البحوث.ii. امتحانات فصلية أو سنوية حسب طبيعة المادة، تحدد للطلبة في بداية الفصل أو السنة.d. كل من يتغيب عن امتحان فصلي أو سنوي يعلن عنه بعذر قهري يقبل به عميد الكلية التي تطرح المساق، أو عذر مرضي، عليه أن يقدم ما يثبت عذره خلال



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<p>أسبوع من تاريخ زوال العذر، وفي هذه الحالة يعقد للطالب بالشكل الذي يراه مناسباً مدرس المساق امتحاناً تعويضياً.</p> <p>e. كل من يتغيب عن امتحان نهائي معطن عنه بدون عذر قهري يقبل به عميد الكلية أو عذر مرضي يوضع له (صفر) في ذلك الامتحان، ويحسب له في علامته النهائية</p> <p>f. ترد جميع أوراق الامتحانات والتقارير، والبحوث إلى الطالب بعد تصحيحها وتسجيل علاماتها، أما أوراق الامتحان النهائي فتحتفظ لدى مدرس المساق لمدة فصل دراسي واحد.</p> <p>g. إذا تغيب الطالب عن الامتحان النهائي لمساق ما بعذر يقبله العميد، يبلغ العميد قراره بقبول العذر الذي مدير دائرة القبول والتسجيل ومدرس المساق ليسجل له علامة "غير مكتمل" إزاء هذا المساق، وعلى الطالب أن يتقدم للامتحان النهائي في المساق المذكور في مدة أقصاها أربعة أسابيع من بداية الفصل التالي للفصل الذي حصل فيه على علامة "غير مكتمل" ويعتبر لهذا الغرض إذا درس فيه الطالب، أما إذا لم يتمكن الطالب من تقديم دراسته الفصل الصيفي فصال الامتحان المذكور في المدة المقررة اعتبرت علامته صفراً. في ذلك الامتحان.</p> <p>h. لا يجوز للطالب الحاصل على ملاحظة "غير مكتمل" تأجيل دراسته في الجامعة للفصل/ الفصول اللاحقة إلا بعد إزالة هذه الملاحظة ضمن الفترة المحددة في هذه المادة وخالف ذلك تسجل له دائرة القبول والتسجيل العالمية المستحقة من الأعمال الفصلية في ذلك المساق.</p> <p>i. يكون الإطار العام الامتحانات ومواعيدها على النحو التالي</p> <p>i. مساقات السنوات الأولى والثانية والثالثة والفصل الدراسي الأول من السنة الرابعة:</p> <p>1. المساقات النظرية والمساقات النظرية التي تحوي جزءاً عملياً يخصص للأعمال الفصلية (50%) حيث يجري اختباران فصلين على الأقل وقد تكون هذه الاختبارات على شكل امتحانات تحريرية، شفوية، عملية، أو بواسطة الحاسوب أو تقارير أو بحوث كلها أو بعضها على أن يتم تحديد طبيعة الامتحانات ومواعيدها للطلبة في بداية كل فصل دراسي وحسب ما يقرره مجلس القسم الذي يطرح المساق وتناقش أوراق الامتحانات مع الطلبة بعد تصحيحها وتعلن نتائج الأعمال الفصلية للطلبة قبل بداية الامتحان النهائي ويخصص للامتحان النهائي (50%).</p> <p>2. يقوم مجلس القسم الذي يطرح المساق ببيان كيفية توزيع العلامات التي توضع للمساقات العملية قبل بداية الفصل الدراسي.</p> <p>j. يحدد عميد الكلية بالتنسيق مع دائرة القبول والتسجيل مواعيد الامتحانات النهائية في مطلع كل عام دراسي .</p> <p>تقوم مجالس الأقسام بتحديد أسلوب تقييم أي مساق ذي طبيعة خاصة أو بحثية، وتحديد أعداد ونوعية الممتحنين الخارجيين، وبيان كيفية توزيع العلامات التي توضع لهذه المواد على أن يعتد هذا التوزيع من مجلس الكلية في بداية كل فصل أو عام دراسي.</p>	
Cheating and Plagiarism	تعليمات الإجراءات التأديبية للطلبة في جامعة اليرموك رقم (٨) :	



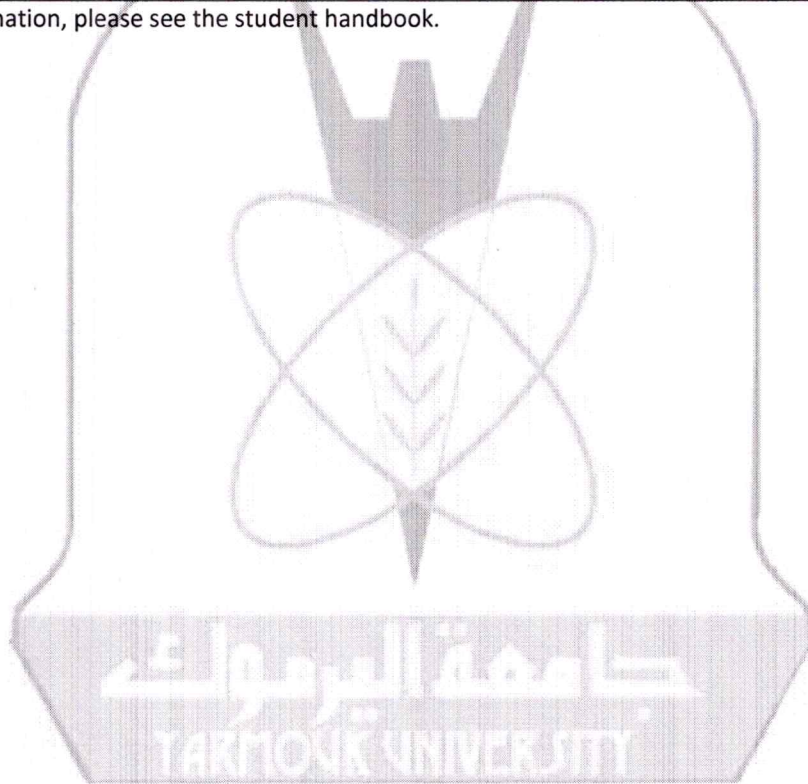
جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<p>• يعاقب بالتنبيه، أو بالإنذار الأول، أو بالإنذار النهائي، "ما لم يرد نص خاص" كل طالب يقوم بـ: 1- الامتناع المدير عن حضور المحاضرات، والدروس، والأنشطة الجامعية التي تقضي الأنظمة بالموظبة عليها، أو التحريض على ذلك. 2- الإخلال بالقواعد المتبعة أثناء المحاضرات وعقد الامتحانات، ولمدرس المساق أن يخرج من القاعة واستدعاء الأمن الجامعي عند الضرورة لإخراجه، وله أن يعلم العميد أو المدير المختص بذلك المساق اتخاذ الإجراءات المناسبة بحقه. 4- استخدام أجهزة الهواتف النقالة، وسائر الأجهزة الإلكترونية داخل القاعات أو خارجها بشكل يؤثر على سير العملية التدريسية.</p> <p>يعاقب بالفصل المؤقت من الجامعة من فصلين إلى ثلاثة فصول دراسية كل طالب يقوم بـ: الاتفاق مع طالب آخر، أو شخص آخر على الدخول لتأدية امتحان أو اختبار ودخل لتأديته نيابة عنه وتشمل العقوبة في هذه الحالة الطالب الذي دخل الامتحان والطالب الذي أدى الامتحان نيابة عنه، و إذا كان الشخص الذي دخل الامتحان من غير طلبة الجامعة فيحال إلى الجهات المختصة استخدام أجهزة الهواتف النقالة او الأجهزة الإلكترونية الغير مصرح باستخدامها داخل قاعة الامتحان.</p>
--	---

***For more information, please see the student handbook.





جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Department: Basic Medical Sciences

Official Stamp:

Course Identification	
Course Name: Health Administration	Course Code and Number: MED ٣١١
Number of Credit Hours: ١ credits	Semester: Spring
Course Status: Face to face	Teaching Language: English
Pre-requisite:	Course Instructor: Dr. Ola Soudah Email: ola.soudah@yu.edu.jo

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This course is an introductory course to healthcare administration. Students will learn about the foundational concepts in healthcare management for healthcare organizations (HCOs). Course materials were organized around four major modules; management skills, leadership, team building, and healthcare organization system. These modules are connected to each other and sometimes overlapped.</p> <p>Management functions module will cover management definitions, functions and competencies. The 6 key management functions for any HCOs; Planning, Organizing, Staffing, Controlling, Directing, and Decision making, will be touched briefly in this module. Leadership module will explain the difference between manager and leader, and the important skills and competencies for leaders. Team building module will teach students the basic aspects for team building and how to be effective. The last module will go through HCOs types, structures, quality improvement foundations, & used information system.</p> <p>Since it is an introductory course, the main goal of this course is to expose students to the non-clinical, administrative role in healthcare organization they may do in their future career as physicians.</p>
Course Objectives	At the end of the course, students will be able to:



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<ul style="list-style-type: none">• Explain what management and what management skills, competencies and functions are needed.• Understand what make leaders different from managers and why leadership is more powerful in HCOs setting.• Define teamwork and how to build a team.• Understand the complex nature of health care organizations.• Understand Quality improvement.• Know the different information system used in HCOs.
Course Learning Outcomes (CLOs)	<p>CLO1: Define and explain management in health services field.</p> <p>CLO2: Understand the needed management skills and competencies to be a manager and know the 6 major management functions.</p> <p>CLO3: Differentiate between managing by leading and managing by authority.</p> <p>CLO4: Know the different types of teams and how to build and lead one in order to get things done and to achieve the target.</p> <p>CLO5: Know the structure of healthcare organization and the complex environment of HCOs (people with different professionals and external and internal forces) that will influence the manager work.</p> <p>CLO6: Understand what is quality improvement and different quality improvement models.</p> <p>CLO7: Be aware of different Information system that is used in HCOs and what it does.</p>

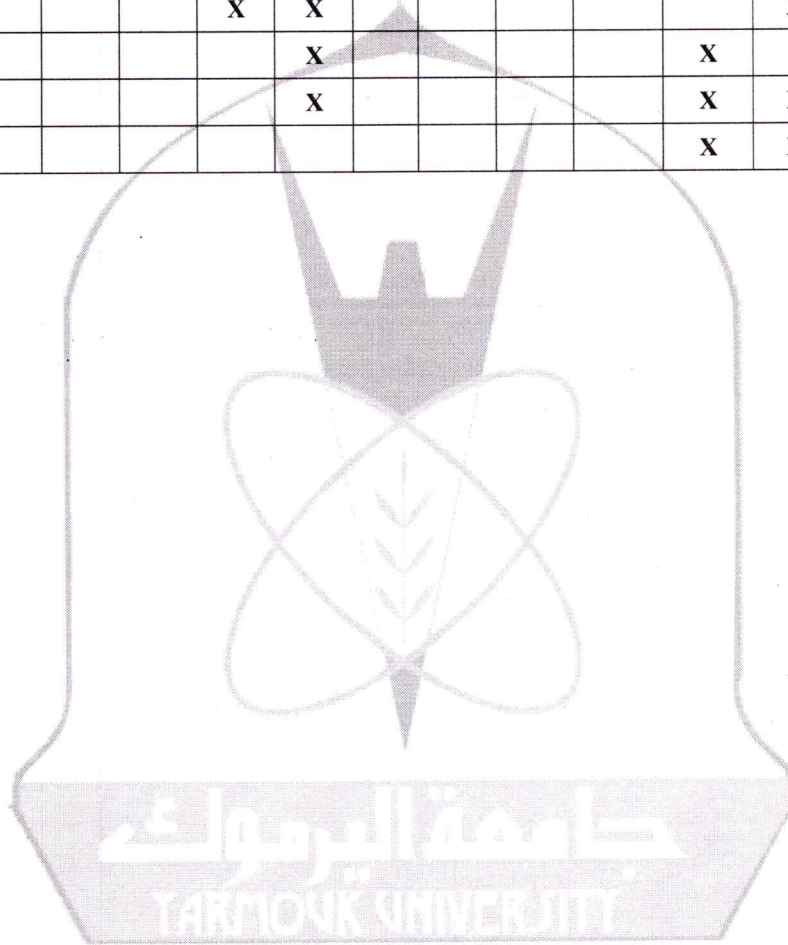


جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs														
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1					X									
CLO2					X	X						X		
CLO3						X								
CLO4					X	X						X		
CLO5						X					X			
CLO6						X					X	X		
CLO7											X	X		





جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	TBA	Computer based MCQs exam	50%	1-3
Activities*	Leadership online workshop, AMA Patient Safety online module, Case	Discussion	+5	1-7
Final Exam	TBA	Computer based MCQs exam	50%	4-7

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

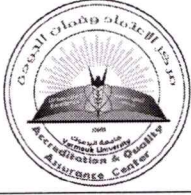
Numbers of questions required for the examinations	
Lecture #	# Questions
1	4
2	4
3	4
4	4
5	4
6	4
7	4
8	4
9	4
10	4
11	4
12	4
Total	50



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

The instructor has the right to make changes to the syllabus, including study materials, assignments, case studies, and test dates. These changes will be announced as early as possible.

Lecture #	Content	Instruction Method**	Ref#
1	Introduction (What Is Management)	Face to Face	Buchbinder Ch.1
2	Management Skills I: Strategic Planning & Decision Making.	Face to Face	Buchbinder Ch.5 +extra reading.
3	Management Skills II: Staffing & Controlling.	Face to Face	Buchbinder Ch.12 +extra reading.
4	Introduction To Leadership	Face to Face	Buchbinder Ch.2 +extra reading + Activity 1
5	Leadership In Management I: Motivation	Face to Face	Buchbinder Ch.3
6	Leadership In Management II: Organizational Behaviors & Management Thinking	Face to Face	Buchbinder Ch.4
7	Midterm Exam	Face to Face	
8	Introduction to Teamwork	Face to Face	Buchbinder Ch.13
9	Communication in Medical Teams	Face to Face	Buchbinder Ch.11 +extra reading.
10	Healthcare Delivery System I	Face to Face	+extra reading.
11	Healthcare Delivery System II	Face to Face	+extra reading.
12	Quality Improvement Basics	Face to Face	Buchbinder Ch.7 + Activity 2
13	Information Technology	Face to Face	Buchbinder Ch.8
14	Case discussion	Face to Face	Activity 3: Virginia Manson Medical Center Case Study



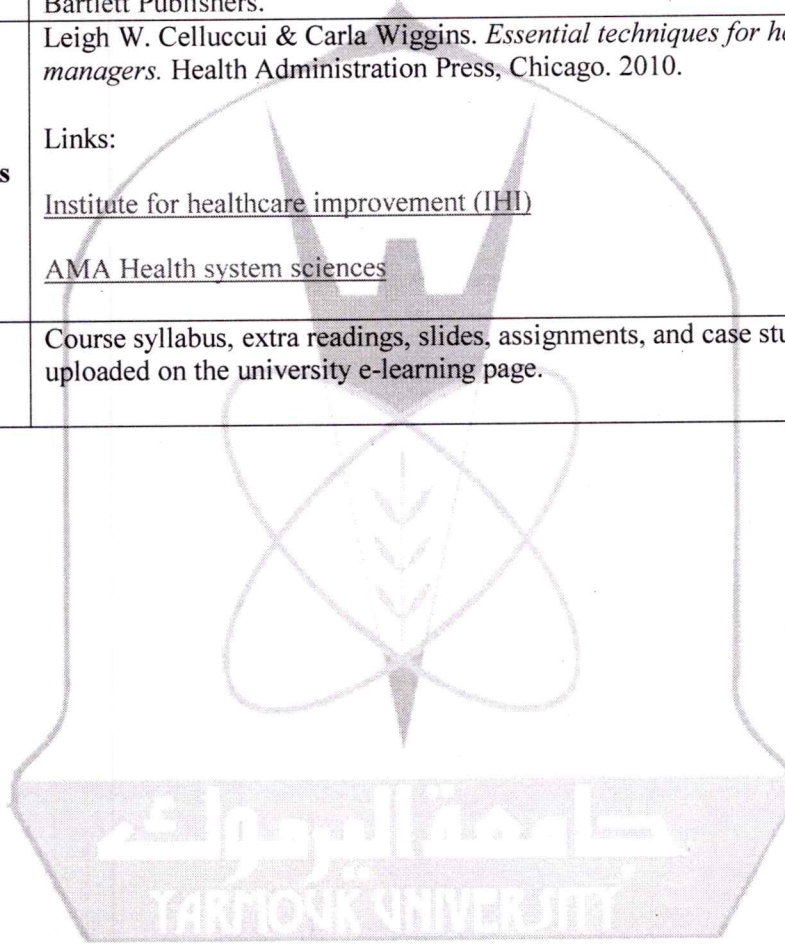
جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

15	Final Exam	Face to Face	
----	------------	--------------	--

Main Textbook and References	
Main Textbook	S.Buchbinder, N.H. ed., 2016. <i>Introduction to health care management</i> . Jones & Bartlett Publishers.
Other References	Leigh W. Cellucci & Carla Wiggins. <i>Essential techniques for healthcare managers</i> . Health Administration Press, Chicago. 2010. Links: Institute for healthcare improvement (IHI) AMA Health system sciences
Cases	Course syllabus, extra readings, slides, assignments, and case studies instructions will be uploaded on the university e-learning page.





جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Basic Sciences

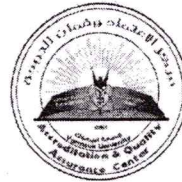
Official Stamp:

Course Identification	
Course Name: Clinical Psychology(Behavioural Sciences)	Course Code and Number: MED 312
Number of Credit Hours: 3	Semester: Summer
Course Status: Compulsory	Teaching Language: English
Pre-requisite: Second year courses	Course Coordinator: Dr. Rawan Masri

General Information	
Teaching Method	<input type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>The course is delivered through lectures one hour daily for 8 weeks.</p> <p>The course is organized into many sections that cover the human health behavior from the biological, psychological and social perspectives</p>

YARMOUK UNIVERSITY

FACULTY OF MEDICINE



جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Course Objectives	<ol style="list-style-type: none">1. To understand human behavior in health and disease.2. To understand psychosocial aspects of disease.3. To prepare you for Psychiatry Clerkship.
Course Learning Outcomes (CLOs)	<p>CLO1: Students will demonstrate a comprehensive social and behavioral science approach to their study and understanding of human conditions.</p> <p>CLO2: Students will understand the different developmental theories and convey them in real life.</p> <p>CLO3: Students will be oriented about Learning theories and how they are implicated in behavioral therapy.</p> <p>CLO4: Students will understand the biological changes associated with mental illnesses.</p> <p>CLO5: Students will be oriented into the symptomatology of mental disorders.</p> <p>CLO6: Students will understand the clinical presentation of mental disorders</p> <p>CLO7: Students will have an overview of different pharmacotherapy used in treating mental illnesses</p>

YARMOUK UNIVERSITY

FACULTY OF MEDICINE

جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs											
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CLO1	X										
CLO2	X										
CLO3		X									X
CLO4	X		X								
CLO5	X										
CLO6	X				X						
CLO7	X			X				X			

YARMOUK UNIVERSITY

FACULTY OF MEDICINE



جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	19.7.2022	Computerized written Exam	45	CLO 1,2,3
Activities*	Activity (1) Quiz	25.7.2022 Computerized written Exam	10	CLO 4
	Activity (2) Discussion	30.7.2022		CLO 4,5
	Activity (3) Attendance	Random Pick		
	Activity (4)			
	Activity (5)			
Final Exam		Computerized written Exam	45	CLO 4,5,6,7

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

YARMOUK UNIVERSITY
FACULTY OF MEDICINE

جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PRO5

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1	Human Development	Interactive Zoom Lecture
	Learning and Behavior Modification	Interactive Zoom Lecture
	Biological Basis of Behavior	Interactive Zoom Lecture
	Memory	Interactive Zoom Lecture
Week 2	Psychodynamic Theories	Interactive Zoom Lecture
	Defense Mechanisms	Interactive Zoom Lecture
	Theories of Personality	Interactive Zoom Lecture
	Motivation and Emotion	Interactive Zoom Lecture
Week 3	Psychologic Health and Testing	Interactive Zoom Lecture



جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
	Physician-Patient Relationship	Interactive Zoom Lecture
	Clinical Psychopathology	Interactive Zoom Lecture
Week 4	Mood Disorders	Interactive Zoom Lecture
	Schizophrenia Spectrum Disorder	Interactive Zoom Lecture
	Midterm Exam	Interactive Zoom Lecture
	Child Psychiatry	Interactive Zoom Lecture
Week 5	Anxiety Disorders	Interactive Zoom Lecture
	Obsessive-Compulsive and Related Disorders	Interactive Zoom Lecture
	Somatic Symptom and Related Disorders	Interactive Zoom Lecture

YARMOLK UNIVERSITY

FACULTY OF MEDICINE

جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
	Personality Disorders	Interactive Zoom Lecture
Week 6	Trauma- and Stressor-Related Disorders	Interactive Zoom Lecture
	Eating Disorders	Interactive Zoom Lecture
	Neurocognitive Disorders	Interactive Zoom Lecture
Week 7	Substance-Related and Addictive Disorders	Interactive Zoom Lecture
	Sleep and Sleep Disorders	Interactive Zoom Lecture
	Psychopharmacology	Interactive Zoom Lecture
Week 8	Human sexuality and Sexual Disorders	Interactive Zoom Lecture
	Epidemiology	Interactive Zoom Lecture

جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
	Biostatistics	Interactive Zoom Lecture
Week 9	Final Exam Week	
Week 16	Final Exam Week	

**Instruction method is as follows:

- **Face-to-Face course:** Face-to-face class
- **Onlinecourse:** Interactive synchronous or asynchronous
- **Blended course:** Face-to-face or Online (synchronous or asynchronous)

Main Textbook and References

Main Textbook	Behavioral Science in Medicine, sixth edition, B Fadem. Lipincott Williams & Williams, 2003
Other References	Synopsis of Psychiatry, 11th Edition, Kaplan H. & Sadock B. (2015)

•
•

YARMOUK UNIVERSITY
FACULTY OF MEDICINE



جامعة اليرموك

Yarmouk University

اسم الكلية



Faculty

Document Approval Date

Course Syllabus

Document Code

AP01-PR05

Policies and Instructions***	
Attendance	Students are Expected to attend all lectures and the attendance will weigh 10 marks
Activities	Mentioned above
Late Submission	
Exams	If students do not attend the midterm or final exam for an acceptable reason, they will take an essay makeup exam
Cheating and Plagiarism	Unaccepted. An essay exam will be considered and the student will lose his/her evaluation marks.

***For more information, please see the student handbook.

جامعة اليرموك
YARMOUK UNIVERSITY

YARMOUK UNIVERSITY
FACULTY OF MEDICINE



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Department: Basic medical Sciences	Official Stamp:
------------------------------------	-----------------

Course Identification	
Course Name: Gastro-intestinal tract	Course Code and Number: Med 320
Number of Credit Hours: 6 Credit Hours	Semester: 7 (1 st semester of 3 rd year)
Course Status:	Teaching Language: English
Pre-requisite:	Course Coordinator: Dr. Doaa Ghorab

General Information	
Teaching Method	<input type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input checked="" type="checkbox"/> Blended
Course Description	<p>Interdisciplinary integrative course which explores fundamental concepts of biochemistry, anatomy, histology, physiology, public health problems, pathology, pharmacology, and microbiology as they relate to issues and common diseases of Gastrointestinal and hepatobiliary system. Pharmacology and therapeutic management of common GI problems are also explored. Teaching methods include lectures, practical classes, clinically oriented seminars and small group discussions.</p> <p>The practical part of the course gives emphasizes on the anatomy, pathology, pharmacology and microbiology of the gastrointestinal system. In addition, small group discussions of common clinical problems are part of the teaching strategy of this module to enhance integration of basic sciences and clinical knowledge and students' self-directed learning</p>
Course Objectives	<ul style="list-style-type: none">• Describe the gross structure and functional anatomy of each GIT organ.• Recognize the microscopic appearance of different parts of the GIT and the normal embryology development with their congenital abnormalities.• Describe the function of each GIT structure.• Explain how neuronal mechanisms and GIT hormones regulate gastrointestinal, pancreatic, and biliary functions.• Describe the major types of nutrients.



Document Approval Date	Course Syllabus	Document Code
	٤٠٠	AP01-PR05

	<ul style="list-style-type: none">• Explain how proteins, carbohydrates, and fats are digested and absorbed.• Identify and describe the major disease processes including neoplasm's and malabsorption conditions affecting different organs of GIT in terms of pathogenesis, gross and microscopic changes, manifestations, and complications.• Identify various bacterial, viral, fungal, and parasitic infections affecting• GIT, and describe the principle manifestations, diagnosis, treatment, and prevention of each individual microorganism and parasitic agent affecting GIT.• Describe the mechanisms of action, pharmacokinetics, indications, and adverse effects of commonly used drugs in the treatment of GIT disorders (vomiting, peptic ulcer disease, constipation, and diarrhea).• Describe the essential nutritional requirement, body weight and energy balance, nutritional deficiencies, and disease processes associated with diet.• Understand the clinical differences in the toxic effect of drugs on the liver and the management of some important cases of drug induced liver injury.
Course Learning Outcomes (CLOs)	<p>CLO1: Describe the anatomy, histology, embryology of different parts of Gastrointestinal tract (from oral cavity, esophagus, stomach, small intestine and large intestine) and extrahepatic biliary system, pancreas and liver</p> <p>CLO2: classify pathological diseases of GIT, classify symptoms and signs, investigation, treatments of diseases of GIT</p> <p>CLO3: Discriminate the difference between different diseases, treatments and drugs.</p> <p>CLO4: Identify the gross pathologic pictures, Microscopic pictures of different pathologic lesions of GIT</p>



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<p>CLO5: differentiate between congenital, developmental, inflammatory and neoplastic diseases of GIT system.</p> <p>CLO6: apply and reach diagnosis for different GIT disease on case scenarios</p> <p>CLO7: choosing the specific and valuable treatments for different cases of GIT diseases</p> <p>CLO8: discriminate indications and contraindications of different drugs for GIT diseases</p> <p>CLO9: describe the kinetics of each drug</p> <p>CLO10: discuss and describe the physiologic bases of GIT motility, secretions, enzymes, functions and hormonal secretions of GIT system including liver and pancreas.</p> <p>CLO11: differentiate between different micro-organisms diseasing GIT system, its life cycle, mood of transmission and incubation periods.</p> <p>CLO12: describe the characteristics and how to diagnose the different microorganisms diseasing GIT system</p> <p>CLO13: List the most common used liver function tests and describe the clinical significance of each of these tests</p> <p>CLO14: Describe the mechanism of each drug and its side effects used for treatment of GIT diseases.</p> <p>CLO15: detection of epidemiology of the disease in terms of and risk factors of the diseases affecting GIT system.</p> <p>CLO 16: design Strategies of primary prevention and measures of screening and early detection of the disease</p>
--	--

Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs							
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CLO1							
CLO2							
CLO3							
CLO4							
CLO5							
CLO6							



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

CLO7							
------	--	--	--	--	--	--	--



(Handwritten signature)



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam			(50%): <ul style="list-style-type: none">○ Practical exam =25%○ Theory +small group discussion =75%	
Activities*	Activity (1)	Quize		
	Activity (2)			
	Activity (3)			
	Activity (4)			
	Activity (5)			
Final Exam			(50%): <ul style="list-style-type: none">○ Theory session only = 100%	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1		





جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		
Week 8		
Week 9		
Week 10		
Week 11		
Week 12		
Week 13		
Week 14		
Week 15		



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 16	Final Exam Week	

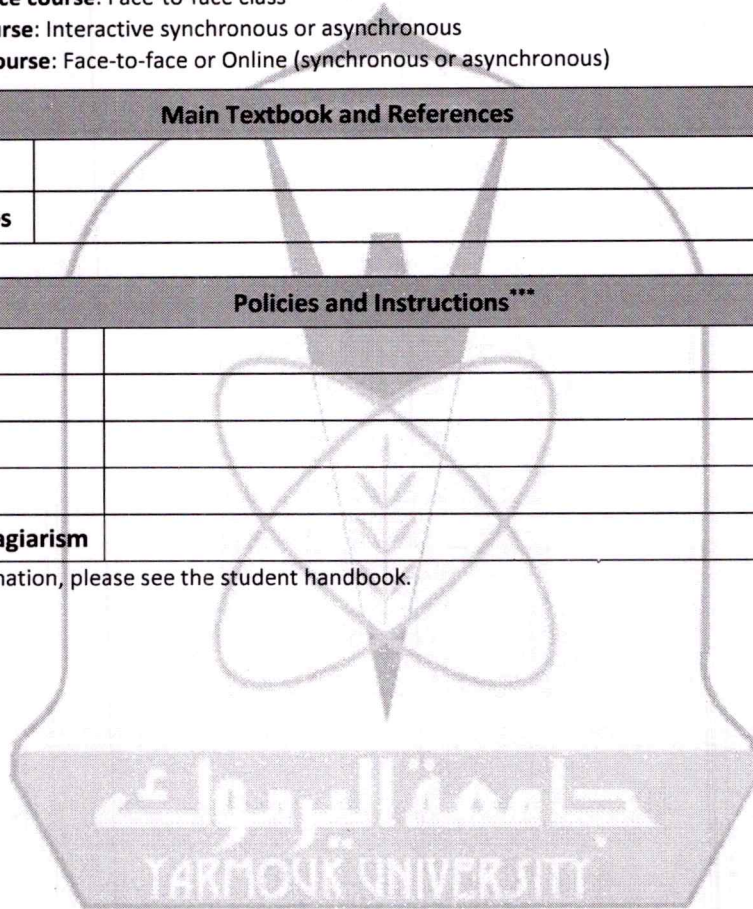
**Instruction method is as follows:

- **Face-to-Face course:** Face-to-face class
- **Online course:** Interactive synchronous or asynchronous
- **Blended course:** Face-to-face or Online (synchronous or asynchronous)

Main Textbook and References	
Main Textbook	
Other References	

Policies and Instructions***	
Attendance	
Activities	
Late Submission	
Exams	
Cheating and Plagiarism	

***For more information, please see the student handbook.





جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Department:	Official Stamp:
-------------	-----------------

Course Identification	
Course Name: Endocrine system	Course Code and Number: MED321
Number of Credit Hours: 6	Semester: First (2021/2022)
Course Status:	Teaching Language: English
Pre-requisite:	Course Coordinator: Dr. Fatimah Almahasneh

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	This module focuses on the endocrine system, its components and the related biochemical and physiological processes that are crucial in maintaining homeostasis of the human body. It also illustrates how the disruption in the endocrine system function leads to several diseases, some of which are endemic in nature (i.e. diabetes mellitus). Finally, it covers the pharmacological remedies needed to regain homeostasis by directly modulating different components of this system.
Course Objectives	At the end of the course, students will be able to: 1- Describe the structure and function of endocrine organs. 2- Understand the role of the endocrine system in maintaining homeostasis and health. 3- Explain the pathophysiology, epidemiology, clinical presentation, laboratory testing, and the pharmacologic management of the disorders of the endocrine system.
Course Learning Outcomes (CLOs)	CLO1: Describe the anatomical and histological structure, development, and function of the different organs of the endocrine system. CLO2: Explain the nature, functions, physiologic roles and mechanisms of action of hormones. CLO3: Illustrate the interactions between endocrine glands and the feedback mechanisms that regulate their functions. CLO4: Discuss the pathogenesis, morphological changes and complications of diseases affecting the endocrine system. CLO5: Assess the impact of endocrine diseases on public health.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<p>CLO6: Indicate the hormones and drugs used for the diagnosis and treatment of endocrine disorders.</p> <p>CLO7: Evaluate the signs, symptoms and investigations related to endocrine disorders.</p> <p>CLO8: Recommend a therapeutic plan for the treatment of clinical cases involving endocrine diseases.</p>
--	---

Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	x													
CLO2	x													
CLO3	x													
CLO4	x													
CLO5														x
CLO6	x													
CLO7		x												
CLO8				x										

Assessment Methods

Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	TBD	Exam	50	
Activities*	Activity (1)			
	Activity (2)			
	Activity (3)			
	Activity (4)			
	Activity (5)			
Final Exam	TBD	Exam	50	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Course Contents, Schedule**, and Instruction Methods		
Week	Course Content	Instruction Method***
Week 1 (14-18/11/2021)	Introductory case	Face-to-Face
	Anatomy (lectures 1-3)	
	Biochemistry (lectures 1-2)	
	Physiology (lectures 1-4)	
	Pathology (lecture 1-2)	
	Pharmacology (lecture 1)	
Week 2 (21-25/11/2021)	Anatomy LAB	Face-to-Face
	Physiology (lectures 5-8)	
	Pathology (lecture 3-7)	
	Pharmacology (lecture 2-4)	
	Biochemistry (lectures 3-4)	
	Public health (lecture 1)	
	Pathology LAB (1)	
Week 3 (28/11-2/12/2021)	Small group discussion (case 1)	Face-to-Face
	Pathology (lecture 8)	
	Pharmacology (lectures 5-7)	
	Public health (lecture 2)	
	Biochemistry (lectures 5-6)	
	Physiology (lectures 9-10)	
Week 4 (5-9/12/2021)	Small group discussion (case 2)	Face-to-Face
	Pathology LAB (2)	
Week 4 (5-9/12/2021)	MID-TERM EXAM (12/12/2021)	Face-to-Face
Week 16	Final Exam Week	

** Please refer to the attached timetable for detailed contents and schedule.

*** Instruction method is as follows:

- **Face-to-Face course:** Face-to-face class
- **Online course:** Interactive synchronous or asynchronous
- **Blended course:** Face-to-face or Online (synchronous or asynchronous)

Main Textbook and References	
Main Textbook	Anatomy: - Principles of Human Anatomy. G. J. Tortora, Latest edition. - Clinical Anatomy for Medical Students. R.S. Snell, Latest edition.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

	<p>- Histology. Gartner and Hiatt, Latest edition. - Before we are born. K.L. Moore and T.V.N. Persaud, Latest edition.</p> <p>Biochemistry:</p> <p>- Harper's Biochemistry. Robert K. Murray and Co., Latest edition. - Supplementary Departmental Handouts.</p> <p>Physiology:</p> <p>- Textbook of Medical Physiology. Guyton and Hall, Latest edition. - Berne & Levy Physiology. Koeppen and Stanton, Latest edition. - Review of Medical Physiology. William F. Ganong, Latest edition.</p> <p>Pathology:</p> <p>- Essential Pathology. Emanuel Rubin, Latest edition. - Basic Pathology. Kumar, Cotran and Robbins, Latest edition.</p> <p>Pharmacology:</p> <p>- Goodman and Gilman's. The pharmacological basis of therapeutics. Latest edition. - Lippincott's Illustrated Reviews: Pharmacology, Latest edition.</p> <p>Community Medicine:</p> <p>- Supplementary Departmental handouts.</p>
Other References	-

Policies and Instructions*	
Attendance	University regulations will apply
Activities	-
Late Submission	-
Exams	University regulations will apply
Cheating and Plagiarism	University regulations will apply

*For more information, please see the student handbook.



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Course Specific Learning Objectives	
Title	Objectives
Introduction to endocrinology (Multidisciplinary)	<ol style="list-style-type: none">1. Understand the general outline of the E.S. module.2. Be familiar with the modalities of teaching throughout the course.3. Acknowledge the important relation between normal and abnormal structure and function.4. Appreciate the importance of basic medical sciences in clinical application.
Morphology of the endocrine glands (Anatomy)	<ol style="list-style-type: none">1. Review differences between endocrine and exocrine glands.2. List the endocrine glands.3. Describe the structure of endocrine glands.4. Describe the location, relation, blood and nerve supply and lymphatic drainage of endocrine glands.
Introduction to endocrinology (Biochemistry)	<ol style="list-style-type: none">1. Understand the nature of hormones.2. Describe hormone biosynthesis, secretion and transport.3. Understand targeting delivery and response of hormones.4. Understand hormonal interactions (systemic, cellular, synergistic and inhibitory).
Introduction to endocrinology (Physiology)	<ol style="list-style-type: none">1. Outline the role of hormones as an integral part of the control mechanism used to regulate different metabolic, developmental, growth and reproductive functions in the human body.2. Characterize the major hormonal biorhythms.3. Describe general aspects that govern regulation of hormone secretion.4. Describe how feedback relationship is important in determining the level of circulating hormones.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Histology and embryology of endocrine glands - 1 (Anatomy)	<ol style="list-style-type: none">1. Describe the development of the endocrine glands (thyroid, parathyroid, pituitary, adrenal and pancreas).2. Describe the microscopic structure and cells of the pituitary gland.3. Describe the microscopic structure of thyroid follicle, follicular and parafollicular cells.
Histology and embryology of endocrine glands - 2 (Anatomy)	<ol style="list-style-type: none">1. Describe the microscopic structure and cells of the parathyroid gland.2. Describe the zones and cells of the adrenal gland.3. Describe the microscopic structure of the pancreas.
Mechanisms of hormone actions (Biochemistry)	<ol style="list-style-type: none">1. Describe the structure of cell membrane receptors and intracellular receptors for different hormones.2. Identify different types of second messengers.3. List the intracellular actions of all 2nd messengers.4. Understand the mechanism of 2nd messenger actions including PIP2 turnover (Ca⁺²/ protein kinase C systems), diacylglycerol (DAG) and NO.5. Describe the mechanism of action of peptide hormones6. Describe the mechanism of action of amino acid derivative hormones.7. Describe the mechanism of action of cholesterol derivative hormones.8. Describe the mechanism of action of fatty acid hormone derivatives.
Hypothalamic-pituitary relationship (Physiology)	<ol style="list-style-type: none">1. List adenohypophyseal & neurohypophyseal hormones.2. Describe how the hypothalamus regulates anterior pituitary hormones.3. Describe the posterior pituitary gland relationship with the hypothalamus.





Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Adenohypophyseal hormones - 1 (Physiology)	<ol style="list-style-type: none">1. Describe growth and metabolic effects of growth hormone.2. List the principal insulin-like growth factors and describe their relationship to the actions of growth hormone.
Adenohypophyseal hormones - 2 (Physiology)	<ol style="list-style-type: none">1. Describe the regulation of growth hormone secretion.2. List the factors which stimulates growth hormone secretion3. List the factors which inhibits growth hormone secretion4. Describe the role of the hypothalamus, growth hormone releasing hormone and somatostatin in the control of growth hormone secretion.
Posterior pituitary hormones (Physiology)	<ol style="list-style-type: none">1. Discuss the physiological effects of antidiuretic hormone.2. Describe the regulation of antidiuretic hormone secretion.3. List the major physiological effects of oxytocin.4. Describe the regulation of oxytocin secretion.
Pathology of the anterior and posterior pituitary gland (Pathology)	<ol style="list-style-type: none">1. Describe the neoplasms of anterior pituitary and their clinical syndromes.2. Know the causes & clinical entities related to hypopituitarism.3. Discuss diabetes insipidus and the syndrome of inappropriate antidiuretic hormone secretion.4. Define craniopharyngioma.
Pharmacology of the hypothalamic and pituitary hormones (Pharmacology)	<ol style="list-style-type: none">1. List synthetic analogs of hypothalamic hormones.2. Describe mechanism of action of these synthetic analogs.3. Characterize their clinical uses and routes of administration.4. List their side effects.5. Describe pharmacology of anterior pituitary hormones.6. Review their pharmacological actions.7. List synthetic analogs and describe their routes of administration.8. Describe their clinical uses and adverse reactions.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Biochemical aspects of thyroid hormones metabolism (Biochemistry)	<ol style="list-style-type: none">1. Describe thyroid hormone biosynthesis: monoiodotyrosines, diiodotyrosine, T3, T4 and reverse T3.2. Describe metabolism of iodide and iodine.3. Discuss the role of peroxidase, iodinase, coupling, protease, dehalogenase and thyroglobulin.4. Discuss thyroid stimulating hormone action via cAMP.5. Describe the regulation of thyroid stimulating hormone by thyroid releasing hormone and T4, T3, somatostatin and dopamine.6. Discuss T4 and T3 transport.
Thyroid hormones (Physiology)	<ol style="list-style-type: none">1. Describe physiological aspects related to the formation and secretion of thyroid hormones.2. Characterize physiological consequences of thyroid hormones binding to transporting proteins.3. List the main physiological actions of thyroid hormones.4. Describe the regulation of thyroid hormones secretion.
Pathology of the thyroid gland - 1 (Pathology)	<ol style="list-style-type: none">1. Define and describe the pathogenesis and clinical findings of thyrotoxicosis, diffuse hyperplasia of thyroid and Graves's disease.2. Define and describe the pathogenesis of multinodular goitre.3. List types of solitary thyroid nodules and define the meaning of cold and hot nodule.4. Describe the clinical findings and pathology of hypothyroidism and define the terms Cretinism and Myxedema.5. Define and describe the pathogenesis of Hashimoto's thyroiditis, lymphocytic thyroiditis, subacute thyroiditis and Reidle's thyroiditis.
Pathology of the thyroid gland - 2 (Pathology)	<ol style="list-style-type: none">1. Describe adenomas and carcinomas and their differential diagnosis.2. Discuss various types of malignancies in the thyroid.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Thyroid and antithyroid drugs (Pharmacology)	<ol style="list-style-type: none">1. Characterize the pharmacology of thyroid hormones.2. Describe the pharmacology of antithyroid drugs.3. Describe their clinical uses, routes of administration and adverse reactions.
Hormonal control of calcium metabolism - 1 (Physiology)	<ol style="list-style-type: none">1. Discuss absorption, metabolism and excretion of calcium and phosphate.2. Discuss the role of vitamin in calcium and phosphate absorption3. Outline the effect of calcium ion concentration on the regulation of the active form of vitamin D levels.4. List the major physiological effects of PTH5. Discuss the regulation of PTH secretion
Hormonal control of calcium metabolism - 2 (Physiology)	<ol style="list-style-type: none">1. Structure of calcitonin2. List the major physiological actions of calcitonin3. Discuss the regulation of calcitonin secretion4. Compare between PTH and calcitonin as regulators of calcium levels.
Pathology of the parathyroid glands (Pathology)	<ol style="list-style-type: none">1. Discuss primary & secondary hyperparathyroidism.2. Differentiate between parathyroid hyperplasia & parathyroid adenoma.3. Describe hypoparathyroidism & its clinical manifestations & etiology.
Pharmacology of parathyroid hormone, vitamin D and calcitonin (Pharmacology)	<ol style="list-style-type: none">1. Characterize the pharmacology of the parathyroid hormone, vitamin D and calcitonin.2. List synthetic analogs and describe their routes of administration, clinical uses and their adverse reactions.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Endocrine functions of the pancreas (Physiology)	<ol style="list-style-type: none">1. Discuss principal hormones that affect blood glucose concentration.2. Discuss metabolic effects of insulin.3. Discuss the regulation of insulin secretion.4. Discuss physiological effects of glucagon.5. Describe the regulation of glucagon secretion.
Integrated metabolism and hormonal regulation (Biochemistry)	<ol style="list-style-type: none">1. Describe the metabolic picture in the well-fed state and during starvation in various tissues (liver, brain, muscle and adipose tissues).2. Describe the regulation of glycogen metabolism, glycolysis, hexose monophosphate, gluconeogenesis, lipid and aminoacid metabolism by insulin/counter-regulatory hormones ratio.
Pathology of the endocrine pancreas, including diabetes (Pathology)	<ol style="list-style-type: none">1. Discuss diabetes mellitus type I and type II.2. Discuss complications of diabetes.3. Discuss islet cell tumors (in brief).
Insulin and oral hypoglycemic agents (Pharmacology)	<ol style="list-style-type: none">1. Discuss the pharmacology of insulin.2. Discuss the pharmacology of oral hypoglycemic drugs.3. Describe their clinical uses, administration and adverse reactions.
Epidemiology of diabetes mellitus (Community Medicine)	<ol style="list-style-type: none">1. Describe factors influencing the frequency and severity of DM in various populations.2. Describe the pattern of DM distribution among Jordanians.
Steroidogenesis (Biochemistry)	<ol style="list-style-type: none">1. Describe the biosynthesis of steroid hormones.2. Describe the role of cytochromes P-450 in steroidogenesis.3. Describe defects and consequences of congenital adrenal hyperplasia.



جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Mineralocorticoids (Physiology)	<ol style="list-style-type: none">1. Describe the physiological effects of mineralocorticoids (aldosterone).2. Discuss the regulation of aldosterone secretion.3. Describe the clinical consequences of hypo and hyperaldosteronism.
Glucocorticoids (Physiology)	<ol style="list-style-type: none">1. Describe the major physiological effects of glucocorticoids.2. Discuss the regulation of cortisol secretion.3. Describe the clinical consequences of hypo and hyperadrenalism.
Pathology of the adrenal glands (Pathology)	<ol style="list-style-type: none">1. Describe the pathological features of benign and malignant tumors of the adrenal gland.2. List causes of Addison's diseases and their pathological features.3. Classify the types of multiple endocrine neoplasia.
Pharmacology of mineralocorticoids (Pharmacology)	<ol style="list-style-type: none">1. Characterize the pharmacology of mineralocorticoids in terms of pharmacokinetics, mechanisms of actions and adverse reactions.2. Describe the synthetic analogs and their routes of administrations.3. Understand the rationale of replacement therapy.
Pharmacology of glucocorticoids (Pharmacology)	<ol style="list-style-type: none">1. Characterize the pharmacology of glucocorticoids in terms of pharmacokinetics, mechanism of action and adverse reactions.2. Describe the synthetic analogs and their routes of administration.3. Understand the rationale of replacement therapy.
Principles of laboratory techniques used for the measurement of hormones (Biochemistry)	<ol style="list-style-type: none">1. List the most important lab methods used for laboratory measurement of hormones (Radio Immuno Assay (RIA) Enzyme-Linked Immunosorbent Assay (ELISA), Fluorescence Polarization Immuno Assay (FPIA), Chemiluminescence enzyme immunoassay (CLIA)).2. Understand the principles underlying the techniques used in hormone measurement.





جامعة اليرموك
Yarmouk University
اسم الكلية
Faculty



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Epidemiology of obesity

(Community Medicine)

1. Describe factors influencing the frequency and severity of obesity in various populations.
2. Describe the pattern of obesity distribution among Jordanians.





Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Small group discussion

Clinical case 1 - Diabetes Mellitus

Case history

The patient is a 23-year-old woman who was referred in December for evaluation of suspected glucose intolerance.

The patient initially presented the previous April with onset of headache. Her blood glucose (BG) was 112 mg%. In September, a 2-hour OGTT was done: FBG = 125mg%

1/2-hour BG = 188 mg%

1-hour BG = 243 mg%

1 1/2-hour BG = 251 mg%

2-hour BG = 223 mg%

The patient has experienced occasional thirst and hunger, with mild fluctuations in weight. In September, she was treated with a meal plane eliminating concentrated sweets.

The patient has no specific symptoms of hypoglycemia.

There is no history of DKA, diabetic retinopathy, nephropathy, neuropathy or hypertension.

Family history: Father, deceased age 58 due to myocardial infarct; history of diabetes mellitus 2 years prior to death. Mother, age 55, is alive and well. One brother and one step-brother is alive and well. There is a history in paternal grandmother and great-grandmother of diabetes mellitus.

Physical examination:

Height 156 cm,

Weight 50kg. BP 130/70 right arm supine, 120/76 right arm sitting. Pulse 80/min and regular.

Respirations 16/min. Patient is a febrile. HEENT:

PERRLAEOM intact. Fundi normal. ENT clear.

Cardiovascular: Regular rate, with no murmurs or gallops. Peripheral pulses are 2+ and equal bilaterally, without bruits.

Neurological: Cranial nerves II-X11 are normal. Motor and sensory exam is intact. DTR 2+ and equal bilaterally.



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Objectives of the seminar:

1. Do the glucose tolerance tests results meet the criteria to establish the diagnosis of diabetes mellitus?
2. If this is diabetes mellitus, please indicate what type of diabetes that it is and the reasons that you would believe that it fits that classification?
3. What further diagnostic tests would help you in establishing the type of diabetes that is present?
4. What therapeutic intervention would you recommend at the current time?
5. Explain how normal or even elevated plasma insulin levels can be accompanied by hyperglycemia and discuss common mechanisms for this phenomenon.
6. In the absence of insulin treatment can Type2 diabetic patients eventually develop spontaneous DKA? Explain.

Clinical case 2 - Thyrotoxicosis

Case history

Mrs. A.B. was 25 years old when she became pregnant for the first time. The pregnancy was uneventful and no thyroid function disturbances were recognized.

At about ten weeks postpartum, she became increasingly fatigued and irritable with episodes of palpitations. She was seen by an internist because of these symptoms.

Physical Examination

She appeared anxious and hyperkinetic. Her pulse was 120/min, BP 130/60. Her skin was warm, moist and smooth. She had lid lag and normal ocular motility. The thyroid was diffusely enlarged, with a prominent isthmus, and was estimated to weigh approximately 40 grams (2 times normal size). She had a bounding cardiac apical impulse, a pulmonic flow murmur, and a systolic bruit over the thyroid. She had a fine tremor and rose from a deep knee bend with difficulty. The rest of the examination was unremarkable.



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Laboratory data

Serum T4: 16 μ g/100ml (normal 4.5-10),
Serum T3: 550ng/100ml (normal 75- 180).

Objectives of the seminar

1. What is your differential diagnosis?
2. Are more tests required to define the thyroid status?
3. What additional physical signs would strengthen your preferred diagnosis?
4. Describe the expected clinical course for 2 of the possible diagnoses and what therapy would you recommend?
5. What is the cause of the a) pulmonic flow murmur?
b) the thyroid bruit?
c) lid lag?
6. Is there any contraindication to future pregnancy?

