The University of Jordan

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Form: Course Syllabus	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963 05/12/2022
	Number and Date of Revision or Modification	
	Deans Council Approval Decision Number	265/2024/24/3/2
	The Date of the Deans Council Approval Decision	2024/1/23
	Number of Pages	06

1.	Course title	Pediatrics-1
2.	Course number	0529501
3.	Credit hours	4 hours
	Contact hours (theory, practical)	40 hours/week
4.	Prerequisites/corequisites	Successfully passing Fourth year
5.	Program title	Doctor of Medicine
6.	Program code	05
7.	School	School of Medicine
8.	Department	Pediatrics
9.	Course level	Bachelor
10.	Year of study and semester (s)	Fifth year
11.	Program Degree	Bachelor
12.	Other department (s) involved in teaching the course	NA
13.	Learning language	English
14.	Learning Types	☒ Face to face learning

15.	Online platforms(s)	☐ Moodle ☒ Microsoft Teams
16.	Issuing Date	6/7/2022
17.	Revision Date	11-5-2025

18. Course Coordinator:

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19. Other Instructors

	INSTRUCTOR	Office number	office hours	phone number	email address
1	**Prof. Amira Masri**		**Sunday 12-1**	**Work phone: 5353666 ext 2767**	**Email: amasri@ju.edu.jo**
2	**Prof. Eman Badran.**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767.**	**Email:** e.badran@ju.edu.jo
3	**Prof Iyad AL-Ammouri.**		**Monday 11-1, Tuesday 12-1.**	**Work phone: 5353666 ext 2767.**	**Email: i.ammouri@ju.edu.jo**
4	**Prof. Dr Jumana Baramki.**		**Wednesday 11-1**	**Work phone: 5353666 ext 2767.**	**Email:** j.albaramki@ju.edu.jo
5	**Prof. Dr Jumana Baramki..**		**Thursday 12-1**	**Work phone: 5353666 ext 2767.**	**Email:** rasha.odeh@ju.edu.jo
6	**Dr Abeer Alassaf.**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767.**	**Email: A_alassaf@ju.edu.jo**
7	**Dr Fareed Khudhair**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767**	**Email: f.khdair@ju.edu.jo**
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9	**Dr Enas Zayadneh.**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767**	**Email: e.alzayadneh@ju.edu.jo**
10	**Dr Montaha Al_Iede**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767.**	**Email: m.al-iede@ju.edu.jo**

11	**Dr Amal Abu Libdeh**		**Tuesday 12-1**	**Work phone: 5353666 ext 2767.**	**Email: a.abulibdeh@ju.edu.jo**

20. Course Description :

A- Course Description:

A four-week rotation. Rotating at the department of pediatrics as: four weeks at the Jordan University hospital, rotating in the Inpatient, PICU, NICU, Normal Nursery, General Pediatric clinic, and emergency departments. The first week includes an introductory course in face to face lecture syllabus, hands on skills acquiring Pediatric History taking and Nuances of Pediatric Physical exam including developmental assessment skills. The following three weeks have the student rotate in the general pediatric inpatient area and specialized areas such as the PICU, NICU, General Pediatric Clinic, and the emergency department Emphasis in this course will be on teaching normal Pediatric growth and Development and common pediatric health care issues in a problem solving environment.

B- Aims:

1. Acquire knowledge of normal and abnormal growth and development,
2. Understand diagnosis and treatment of common pediatric diseases and emergency conditions in children.
3. Develop communication skills and understanding perspectives of children and their families.

21. Program Intended Learning Outcomes (PLOs) (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

PLO's	*National Qualifications Framework Descriptors*		
	Competency (C)	Skills (B)	Knowledge (A)
1.	☐	☐	☒
2.	☐	☒	☐
3.	☒	☐	☐
4.	☐	☐	☒
5.	☐	☒	☐
6.	☒	☐	☐
7.	☐	☐	☒
8.	☒	☐	☐

* Choose only one descriptor for each learning outcome of the program, whether knowledge, skill, or competency.

Program Intended Learning Outcomes :

1. Demonstrate basic knowledge of normal human structure and function at molecular, genetic, cellular, tissue, organ, system and whole-body levels in terms of growth, development, and health maintenance. Analyze the basic molecular and cellular mechanisms involved in the causation and treatment of human disease and their influence on clinical presentation and therapy.

2. Collect, interpret, document, and communicate accurately a comprehensive medical history, including the psychological and behavioral factors, and a thorough organ-system-specific physical examination inclusive of the mental status of the patient.

3. Integrate and communicate collected clinical information in the construction of appropriate diagnostic and therapeutic management strategies to identify life-threatening conditions ensuring prompt therapy, referral, and consultation with relevant disciplines and skillfully perform basic medical procedures for general practice on patients with common illness, acute and chronic, taking into account environmental, social, cultural and psychological factors.

4. Demonstrate in-depth knowledge of the epidemiology and biostatistics of common diseases, and analyze the impact of ethnicity, culture, socioeconomic factors and other social factors on health, disease, and individual patient's health care.

5. Communicate effectively and professionally, both orally and in writing, with patients, their families, and with other healthcare providers utilizing information technology resources in his/her scholarly activities and professional development with the ability to teach others, and to understand and respect other healthcare professionals 'roles and apply the principles of multidisciplinary teamwork dynamics and collaboration.

6. Apply scientific methods including evidence –based approach to the medical practice including problem identification, data collection, hypothesis formulation, etc., and apply inductive reasoning to problem solving and ensure that clinical reasoning and decision making are guided by sound ethical principles.

7. Demonstrate knowledge of scientific research methods and ethical principles of clinical research and be able to write research proposals or research papers.

8. Demonstrate professionally the skills needed for Quality improvement, lifelong learning, and continuous medical education including the ability to identify and address personal strength and weakness, self-assess knowledge and performance, and develop a self-improvement plan.

22. Course Intended Learning Outcomes (CLOs): Upon completion of the course, the student will be able to achieve the following intended learning outcomes:

1. **Review the anatomy and pathophysiology of Prematurity, Transition from intrauterine to extra uterine physiology, respiratory, cardiovascular, gastrointestinal, renal, endocrine, hematology, Neurology systems.**
2. **Collect relevant clinical information and perform comprehensive History Taking and Medical Exam.**
3. **Interpret relevant functional tests in each discipline.**
4. **Interpret common findings on different imaging modalities for each system.**
5. **Demonstrate the ability to analyze collected data and formulate a management plan.**
6. **Emphasize the concept of primary prevention including monitoring growth and development, Nutrition and vaccinations.**
7. **Ensure that the student exhibit the highest standards of professional attitude towards patients, colleagues and supervisors.**

Course ILOs #	The learning levels to be achieved						Competencies
	Remember	Understand	Apply	Analyse	Evaluate	Create	
1.	✓	✓					Review the anatomy and pathophysiology of Prematurity, Transition from intrauterine to extra uterine physiology, respiratory, cardiovascular, gastrointestinal, renal, endocrine, hematology, Neurology systems.
2.		✓	✓	✓	✓	✓	Collect relevant clinical information and perform

							comprehensive History Taking and Medical Exam.
3.		✓	✓	✓	✓	✓	Interpret relevant functional tests in each discipline.
4.		✓	✓	✓	✓	✓	Interpret common findings on different imaging modalities for each system.
5.		✓	✓	✓	✓	✓	Demonstrate the ability to analyze collected data and formulate a management plan.
6.		✓	✓	✓	✓	✓	Emphasize the concept of primary prevention including monitoring growth and development, Nutrition and vaccinations.

7.		✓	✓	✓	✓	✓	Ensure that the student exhibit the highest standards of professional attitude towards patients, colleages and supervisors.

23. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

Program ILOs / ILOs of the course	CLO (1)	CLO (2)	CLO (3)	CLO (4)	CLO (5)	CLO (6)	CLO (7)	Descriptors**		
								A	B	C
PLO (1)	✓							✓		
PLO (2)		✓	✓						✓	
PLO (3)				✓						✓
PLO (4)					✓			✓		
PLO (5)						✓			✓	
PLO (6)										✓
PLO (7)							✓	✓		
PLO (8)						✓				✓

***Linking each course learning outcome (CLO) to only one program outcome (PLO) as specified in the course matrix.**

****Descriptors are determined according to the program learning outcome (PLO) that was chosen and according to what was specified in the program learning outcomes matrix in clause (21).**

24. Topic Outline and Schedule

Week	Topic	Course learning Objectives(CLO)	Learning Methods (Face to Face/Blended/ Fully Online)	Evaluation Methods
1	**Introduction to pediatric**	1.1 Review the anatomy and pathophysiology of Prematurity, Transition from intrauterine to extra uterine physiology respiratory, cardiovascular, gastrointestinal, renal, endocrine, hematology, Neurology systems. 1.2 Collect relevant clinical information and perform comprehensive History Taking and Medical Exam. 1.3nterpret relevant functional tests in each discipline. 1.4Emphasis the concept of primary prevention including monitoring growth and development, Nutrition and vaccinations	-Face to face - Daily lectures - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE End of year written exam

	Respiratory system	1.5 Review the anatomy and pathophysiology of respiratory system. 1.6 Interpret pulmonary function tests and arterial blood gases. 1.7 Interpret common findings on Chest x-ray 1.8 Approach and outline the management for patients with upper and lower respiratory tract infections, wheezing, respiratory distress and failure, cystic fibrosis	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
2	**Cardiology**	2.1 Review the anatomy and physiology of cardiovascular system 2.2 Comprehend symptoms and signs of cardiovascular conditions 2.3 Interpret basic electrocardiogram for common cardiac conditions. 2.4 Approach and outline the management for patients with congenital heart disease (cyanotic and acyanotic), Arrhythmias, cardiomyopathies and congestive heart failure	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
	Gastroenterology	2.5 Review the anatomy and physiology of gastro-intestinal system 2.6 Comprehend symptoms and signs of gastro-intestinal conditions 2.7 Interpret liver function tests. 2.8 Approach and outline the management for patients with failure to thrive, acute gastroenteritis, gastroesophageal reflux, Jaundice, , Inflammatory bowel disease, Chronic diarrhea, Malabsorption syndrome, celiac disease, and constipation.	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam

3	**Nephrology**	3.1 Review the anatomy and physiology of the renal system. 3.2 Comprehend the symptoms and signs of renal conditions. 3.3 Interpret urine analysis for common renal conditions. 3.4 Interpret acid base and electrolytes disturbances 3.5recognition and management of dehydration and electrolyte disturbances 3.6 Approach and outline the management for patients with Proteinuria, Hematuria, Glomerulonephritis, nephrotic syndrome, Urinary tract infections, Acute renal failure, Chronic renal failure.	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
	Hematology	3.7 Review the physiology of the hematopoietic and coagulation systems. 3.8 Comprehend symptoms and signs of hematological conditions. 3.9 Interpret blood films for common hematological conditions. 3.10 Interpret coagulation and clotting disturbances 3.11 Approach patients with anemia including: Iron deficiency anemia. 3.12 Approach patients with Bleeding disorders, Platelets disorders, Hemophilia, Thrombophilia and other bleeding disorders. 3.13 Approach for patients with Acute leukemia, Lymphomas, Wilms tumor, neuroblastoma.	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
4	**Endocrinology**	4.1 Define the pathophysiology of Diabetes Mellitus. 4.2 Diagnose and treat patients with Diabetes Mellitus. 4.3 Prevent and recognize complications of Diabetes Mellitus. 4.4 Approach and outline the management of patients with common endocrine diseases such as congenital adrenal hyperplasia, adrenal insufficiency, hypothyroidism, rickets and calcium disorders, normal and abnormal puberty, short stature, hypoglycemia, and ambiguous genitalia.	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam

	Infectious diseases	4.5 Review the basic concepts about viral, bacterial and fungal pathogens. 4.6 Identify the principles of antibiotic therapy and Antibiotic resistance. Specify the principles of infection control. 4.7Approach and outline the management of patients with Sepsis 4.8 Fever and fever of unknown origin. 4.9 Meningitis 4.10 urinary tract infections 4.11 upper and lower respiratory tract infections 4.12 vaccines	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
	Neurology	4.13 Review Normal development and developmental delay 4.14 Review basic concepts of pathophysiology of hypotonia and the approach to clinical work up and diagnosis 4.15 Review pathophysiology and anatomic basis of Seizures 4.16 Review clinical diagnostic basis and management of Autism and attention deficit disorders	Face to face - Morning educational rounds - Daily seminars - History taking and physical examinations	Evaluation/ attendance and discipline End of rotation OSCE Final written exam
	Neonatology	4.17 Review Physiology and anatomy of the Premature infant, and the transition from fetal to post-delivery changes 4.18 Review the advantages of Breast feeding and the composition of breast milk and compare to available infant formulas 4.19 Review the physiology of Thermoregulation in the premature and term infant 4.20 Review the pathophysiology and potential consequences of neonatal Jaundice 4.21 Review anatomy and pathophysiology of Neonatal respiratory distress, potential causes and principles of treatment		

25. Evaluation Methods:

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

Evaluation Activity	Mark wt.	Topic(s)	Period (Week)	Platform	CLO's						
					1	2	3	4	5	6	7
Evaluation/ attendance and discipline	20	Lecture attendance	Week1-4	JUH		✓	✓	✓	✓	✓	✓
		Clinical round attendance	Week2-4			✓	✓	✓	✓	✓	✓
		Seminar preparation and attendance	Week2-4			✓	✓	✓	✓	✓	✓
		History presentations by students	Week 1-4			✓	✓	✓	✓	✓	✓
		Demonstrating physical exam skills by students	Week 1-4			✓	✓	✓	✓	✓	✓
		Demonstrating developmental assessment by students	Week 1-4			✓	✓	✓	✓	✓	✓
		Demonstrating skills in plotting and interpretation of growth charts	Week 1-4			✓	✓	✓	✓	✓	✓
		Neonatal Physical exam	Week2-4			✓	✓	✓	✓	✓	✓
End of rotation OSCE	30	Station on Pediatric Focused History Data interpretation	End of 4th week	JUH outpatient clinics		✓	✓	✓	✓	✓	✓
Final written exam	50	Multiple choice written exam assessing the course ILO mastery	End of academic year (June of each year)	Exam builder	✓	✓	✓	✓	✓	✓	✓

*** According to the instructions for granting a Bachelor's degree.**

Final exam specifications table*

*(This Table is completed on a separate form by course coordinators prior to conduction of each exam according to Accreditation and Quality Assurance Centre procedures and forms)

No. of questions/ cognitive level						No. of questions per CLO	Total exam mark	Total no. of questions	CLO Weight	CLO no.
Create %10	Evaluate %10	analyse %10	Apply %20	Understand %20	Remember %30					
										1
										2
										3
										4

26. Course Requirements

Seminar rooms
Inpatient hospital
Outpatient Teaching clinics.
Emergency department
Internet connection
Online educational material using Moodle (Electronic Videos and Activities)
A simulated clinical environment for OSCE (Real or Simulated Patients)

<u>Teaching Methods and Assignments :</u>

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

Morning educational rounds
Daily seminars
History taking and physical examinations
Discussion sessions and forums
Evaluation of performance, attendance, participation in seminars, ability to make assessment by history and physical exam, problem solving skills, presentation skills.... etc
Seminars and case discussions .
Bedside clinical teaching rounds .
Lectures

27. Course Policies:

A- Attendance policies:

Attendance will be monitored by the course coordinator. Attendance policies will be announced at the beginning of the course.

B- Absences from exams and handing in assignments on time:

Will be managed according to the University of Jordan regulations. Refer to http://registration.ju.edu.jo/Documents/daleel.pdf

C- Health and safety procedures:

Faculty Members and students must at all times, conform to Health and Safety rules and procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this course and also integrity in your behavior in and out of the classroom. Students violate this policy would be subjected to disciplinary action according to University of Jordan disciplinary policies

E- Grading policy:

Grade-point average, Rules are preset by the Faculty and Department Councils

F- **Available university services that support achievement in the course:**

Availability of comfortable lecture halls, data show, internet service and E learning website https://elearning.ju.edu.jo/ .

28. References:

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

1- Macleod's clinical examination, J. Alastair Innes, Anna R Dover, Karen Fairhurst, 14th edition.
2- Nelson Essentials of Pediatrics 9th Edition by Karen Marcdante MD (Editor), Robert M. Kliegman MD (Editor), Abigail M. Schuh MD (Editor)
3- Recorded lectures on Teams

B- Recommended books, materials, and media:

Medical library: textbooks, journals, periodicals/ Web based resources:

1. https://www.uptodate.com/
2. MEDLINE Home (nih.gov)
3. PubMed (nih.gov)

29. Additional information:

The University of Jordan

الجامعة الاردنية

Name of the Instructor or the Course Coordinator:	Signature:	Date: 9.7.2025
Professor Rasha odeh Name of the Head of Quality Assurance Committee /Department	Signature:	Date: 10/7/2025
Dr Enas Al-Zayadneh Name of the Head of Department	Signature:	Date:
Professor Abeer Assaf	.....	
Name of the Head of Quality Assurance Committee/ School	Signature:	Date: 10/7/2025
Professor Ayman Wahbeh Name of the Dean	Signature:	Date:
Professor Ayman Wahbeh	.....	10/7/2025

Pediatric Department
University of Jordan - Faculty of Medicine
Date 9/7/2025

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