

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Program of Doctor of Pharmacy (Pharm. D.)

Course Specification of **Hospital Training: Pediatric**

Course No. (02.05.254)

2021/2022

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Hospital Training: Pediatric				
2	Course Code & Number:	02.05.254				
3	Credit hours:	C.H				TOTAL
		Th.	Seminar	Pr.	Training	
		-	-	-	96 hrs. (90 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	3
4	Study level/ semester at which this course is offered:	Sixth Year- 1 st Semester				
5	Pre –requisite (if any):	Students must have successfully completed their basic curriculum of 5th Year.				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Bachelor of Pharm. D.				
8	Language of teaching the course:	English				
9	Study System	Semester based System				
10	Mode of delivery:	Regular-Full time				
11	Location of teaching the course:	Faculty of Clinical Pharmacy				
12	Prepared By:	Dr. Ali Alyahawi				
13	Date of Approval	2022				

II. Course Description:

The paediatric training course aim to provide students with a systematic approach to patient-centered pharmaceutical care that will be integrate the students skills and the knowledge of pharmacology, therapeutic and clinical courses in practicing hospital real cases of pediatric diseases to identify and resolve different treatment related problems. This course introduces students to their professional responsibilities as clinical pharmacists.

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I. Course Intended learning outcomes (CILOs):		Referenced PILOs (Learning out of program)
Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a.1	Understand the role and responsibilities of a clinical pharmacist in practicing pharmaceutical care of selected cases of pediatric diseases.	A1, A3, A4, A5
a.2	Discuss pharmacotherapy of different pediatric diseases through selected cases discussion.	A1, A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b.1	Explain the recommended pediatric immunization and the current therapeutic options of different pediatric diseases.	B2, B3, B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c.1	Apply rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes for selected cases of pediatric diseases.	C3, C4, C5
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d.1	Search the medical journal databases by browsing professional medical sites for Evidence-Based Medicine (EBM)	D3
d.2	Communicate effectively with healthcare team and improve student skills of patient counseling.	D1, D2

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Understand the role and responsibilities of a clinical pharmacist in practicing pharmaceutical care of selected cases of pediatric diseases.	- Clinical cases studies - Small practical session and discussion - Seminars	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice

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	- Manuals - Use of advanced database search - Individual supervision - Self-learning	- manual - Formal case presentation - Presentation for one of the course content topics. - Exam
a2- Discuss pharmacotherapy of different pediatric diseases through selected cases discussion	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(b) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Explain the recommended pediatric immunization and the current therapeutic options of different pediatric diseases.	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content

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	supervision - Self-learning	topics. - Exam
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(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Apply rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes for selected cases of pediatric diseases.	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1-Search the medical journal databases by browsing professional medical sites for Evidence-Based Medicine (EBM)	- Use of advanced database search - Self-learning	- Assignments - Formal case presentation - Presentation for one of the course content topics. - Exam
d2- Communicate effectively with healthcare team and improve student skills of patient counseling.	- Small practical session and discussion - Seminars	- Oral case discussions during clinical rounds - Formal case presentation - Presentation for one of the course content topics.

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B - Practical Aspect: (if any)				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Pediatric immunization, schedule, and barriers to routine immunization	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
2	Neonatal Critical Care	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
3	Respiratory Syncytial Virus Infection	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
4	Otitis Media	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
5	Pediatric Seizure Disorders	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
6	Attention- Deficit/Hyperactivity Disorder	Through Training Period	Course Training Period	a 1, a2, b1, c1, d1, d2
7	Final Exam	The last week of training		a 1, a2, b1, c1, d1
Number of Weeks /and Units Per Semester: 2 Weeks			96 hours	

II. Teaching & Assessment strategies of the course:
- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Collecting, interpreting, and integrating available information in disease state - Self-learning - Exam - Quiz

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I. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case of pediatric seizure according to appropriate primary literature and updated guidelines.	a 1, a2, b1, c1, d1, d2	Week 1	10
2	Assignment 2: Develop a pharmaceutical care plan for selected case of meningitis according to appropriate primary literature and updated guidelines.	a 1, a2, b1, c1, d1, d2	Week 2	10
Total				20

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Course Training Period	20	20 %	a 1, b1, b2, c1, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, b2, c1, d1, d2
4	Formal Case Presentation	Last week of Rotation	10	10 %	a 1, b1, b2, c1, d1, d2
5	General Written Examination	Last week of Rotation	40	40 %	a 1, b1, b2, c1, d1
Total			100	100%	

III. Learning Resources:

1- Required Textbook(s) (maximum two).

1. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
2. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.

2- Essential References.

1. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.
2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.

3- Electronic Materials and Web Sites etc.

- <http://www.globalrph.com/>
- Updated Clinical Practice Guidelines for selected course disorders

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IV. Course Policies: (Based on the Uniform Students' Bylaw (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same. At the beginning of each week (Saturday) except the first week, students must submit full cases. Marks will be deducted for late submission.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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I. - Information about Faculty Member Responsible for the Course:

Name of Faculty Member	Dr. Ali Alyahawi	Office Hours					
Location & Telephone No.	775957401	SAT	SUN	MON	TUE	WED	THU
E-mail	alyahawipharm@yahoo.com						

II. Course Identification and General Information:

1	Course Title:	Hospital Training: Pediatric				
2	Course Code & Number:	02.05.254				
3	Credit hours:	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
			--		96 hrs. (90 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	3
4	Study level/ semester at which this course is offered:	Sixth Year-1 st Second Semester				
5	Pre –requisite (if any):	Students must have successfully completed their basic curriculum of 5th Year.				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Bachelor of Pharm. D.				
8	Language of teaching the course:	English				
9	Study System	Semester based System				
10	Mode of delivery:	Full Time - Regular				
11	Location of teaching the course:	Faculty of Clinical Pharmacy				

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III. Course Description:

The pediatric training course aim to provide students with a systematic approach to patient-centered pharmaceutical care that will be integrate the students skills and the knowledge of pharmacology, therapeutic and clinical courses in practicing hospital real cases of pediatric diseases to identify and resolve different treatment related problems. This course introduces students to their professional responsibilities as clinical pharmacists.

IV. Course Intended learning outcomes (CILOs)

Upon completion of this Course, student will be able to:

a.1	Define the role and responsibilities of a clinical pharmacist in practicing pharmaceutical care of selected cases of pediatric diseases.
a.2	Discuss pharmacotherapy of different pediatric diseases through selected cases discussion.
b.1	Explain the recommended pediatric immunization and the current therapeutic options of different pediatric diseases.
c.1	Apply rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes for selected cases of pediatric diseases.
d.1	Search the medical journal databases by browsing professional medical sites for Evidence-Based Medicine (EBM)
d.2	Communicate effectively with healthcare team and improve student skills of patient counseling.

B - Practical Aspect: (if any)

Order	Tasks/ Experiments	Week Due	Contact Hours
1	Pediatric immunization, schedule, and barriers to routine immunization	Through Training Period	Course Training Period
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5	Pediatric Seizure Disorders	Through Training Period	Course Training Period
6	Attention-Deficit/Hyperactivity Disorder	Through Training Period	Course Training Period
7	Final Exam	The last week of training	
Number of Weeks /and Units Per Semester		3 weeks	96 hours

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- Clinical cases studies
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- Seminars
- Manuals
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- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VI. Assignments:

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Total			100	100%	

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