

# Course Specifications

<b>Course Title:</b>	Pediatrics Intensive Care ( Elective )
<b>Course Code:</b>	1000434 CRN for male section: (15689) CRN for female section: (15690).
<b>Program:</b>	M.B., B.S.
<b>Department:</b>	Pediatrics
<b>College:</b>	College of Medicine
<b>Institution:</b>	King Feisal university

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## A. Course Identification

<b>1. Credit hours:</b> <b>One</b>			
<b>2. Course type</b>			
a.	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input type="checkbox"/>
b.	Required <input type="checkbox"/>	Elective <input checked="" type="checkbox"/>	Others <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 4 <sup>th</sup> year			
<b>4. Pre-requisites for this course (if any):</b> Basic Medical Science			
<b>5. Co-requisites for this course (if any):</b> Non			

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	6	80
2	Blended		
3	E-learning		
4	Correspondence		
5	Other	2	20

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	21
2	Laboratory/Studio	
3	Tutorial	6
4	Others (specify)	
	<b>Total</b>	<b>27</b>
<b>Other Learning Hours*</b>		
1	Study	8
2	Assignments	7
3	Library	
4	Projects/Research Essays/Theses	3
5	Others (specify)	
	<b>Total</b>	<b>18</b>
<b>Total contact hour</b>		<b>45</b>

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

### 1. Course Description

Caring for complex critically ill children is both rewarding and challenging. Pediatric intensive Care is a course designed to assist student to learn how to think quickly and independently to assess patients and provide immediate care.

This course will use a systems approach to review the essential aspects of are in the Pediatric Intensive Care Unit. Teaching methods to be utilized during this review include lecture, case studies, discussion and practice questions.

### 2. Course Main Objective

- ❖ To recognize pediatric patients that are critically ill
- ❖ To introduce students to the basic principles of managing critically ill patients including how to assess a patient with hypotension and respiratory failure.
- ❖ Demonstrate understanding of the management of ventilator support measures in critically ill patients (including weaning).
- ❖ To introduce students to major areas of critical care medicine including pediatric critical care, trauma critical care and neurological critical care.
- ❖ Demonstrate ability to diagnose and treat metabolic derangements in critically ill patients, including, hypo or hyperglycemia & diabetic ketoacidosis.
- ❖ Perform and document a complete history and physical exam on the critically ill patient; interpret laboratory and pertinent data; provide an assessment and critical care treatment plan

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
<b>1</b>	<b>Knowledge:</b>	
1.1	Describe critically ill pediatric patient	2 K2
1.2	Know the basic principles of managing critically ill patients.	3K3
1.3	Understanding the management of ventilator support and the principle of weaning.	3k3
1...	Memorize the main major areas of critical care medicine	3k3
<b>2</b>	<b>Skills :</b>	
2.1	Adjust an empathic & holistic approach to the patient & their problems taking into consideration beliefs, goals & concerns.	S1 (5,6)
2.2	Justify a care of medical ethics, sterilization and principle care at ICU. with all patients regardless to sex, nationality and economic status.	S3 (7)
2.3	Show effective presentation skills and demonstrate effective communication with fellow students and faculty members during presentation.	S5(11)
2.4	Operate computerized equipment and information technology purposively and efficiently.	S5
<b>3</b>	<b>Competence:</b>	
3.1	Demonstrate expression of relevant information in ways that are easy to be understood by fellow students and teachers.	C1
3.2	Develop and implement a suitable plan of care for different patient problems in PICU in a shared view with patients, relatives and peers.	C3 (16)

CLOs		Aligned PLOs
3.3	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services .	C3 (17)

### C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Pediatric ICU course	3
2	Basic principles of managing critically ill patients	3
3	Indication of PICU admission	3
4	Respiratory Failure & artificial Ventilation	3
5	Dealing with status syndromes	3
6	Diagnose and treat metabolic derangements including DKA	3
7	Pain management in pediatrics	3
8	Students presentations	6
<b>Total</b>		<b>27 Hour</b>

### D. Teaching and Assessment

#### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge</b>		
1.1	Describe critically ill pediatric patient	lecture	Final exam (MCQ)
1.2	Know the basic principles of managing critically ill patients.	lecture	Final exam (MCQ) Problem solving
1.3	Understanding the management of ventilator support and the principle of weaning.	lecture	Final exam (MCQ) Problem solving
1.4	Memorize the main major areas of critical care medicine	lecture	Final exam (MCQ)
<b>2.0</b>	<b>Skills</b>		
2.1	Adjust an empathic & holistic approach to the patient & their problems taking into consideration beliefs, goals & concerns.	Pediatric ICU visit	Continuous assessment
2.2	Justify a care of medical ethics, sterilization and principle care at ICU. with all patients regardless to sex, nationality and economic status.	Pediatric ICU visit	Continuous assessment
2.3	Show effective presentation skills and demonstrate effective communication with fellow students and faculty members during presentation.	Tutorial	Continuous assessment
2.4	Operate computerized equipment and information technology purposively and efficiently.	Tutorial	Continuous assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.0	<b>Competence</b>		
3.1	Demonstrate expression of relevant information in ways that are easy to be understood by fellow students and teachers.	Tutorial	Continuous assessment
3.2	Develop and implement a suitable plan of care for different patient problems in PICU in a shared view with patients, relatives and peers.	lecture Tutorial ICU visits	Continuous assessment Problem solving
...	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services .	Tutorial Review articles	Continuous assessment

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Attendance	All activities	%5
2	Post lecture evaluation	After each lecture	%5
3	Tutorial presentation	At 4 <sup>th</sup> week	15%
4	Review article preparation	At 6 <sup>th</sup> week	%10
5	Post lecture evaluation	After each lecture	%5
6	Final MCQs Exam	At 5 <sup>th</sup> week	%40
7	Final Problem solving Exam	At 5 <sup>th</sup> week	%20

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:  
Office hours 2 time weekly

## F. Learning Resources and Facilities

### 1. Learning Resources

Required Textbooks	Nelson essential textbook
Essential References Materials	Lectures notes
Electronic Materials	

<b>Other Learning Materials</b>	Students tutorial notes
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## 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Halls at college
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	All halls are fully equipment with various technical resources
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Pediatric intensive care unit at maternal and child hospital

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course Objectives, Content and Learning Outcomes	Curriculum Committee	Course Review Course Report
Effectiveness of teaching	Faculty Students	Classroom Observation (QMS Annex O and P) Course Evaluation Survey (QMS Annex B)
Achievement of course learning outcomes	Course Faculty	Moderation (QMS Annex G and Annex H)
Assessment	Course faculty	Verification
Learning Resources and Facilities	Students Faculty	Course Evaluation Survey Course Report
Student Academic Counseling and Support	Students	Course Evaluation Survey
Course Quality Management	Program Coordinator	Course Report Review

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

<b>Council / Committee</b>	College Council
<b>Reference No.</b>	2
<b>Date</b>	September 24, 2019