

## Course Specifications

### Pediatric Nursing

### Master Program

#### 1- Basic information

Level: 3rd

Title: Critical Care

Code: 431

Semester

Theoretical : 30

Practical :-----

Program(s) on which the course is given

: Pediatric Nursing

Major or minor element of program

: Major

Department offering the program

: Pediatric Nursing

Department offering the course

: Pediatric Nursing

Date of specification approval

: ١٦/٢/٢٠١٦

Academic year

: ٢٠١٩/٢٠٢٠

**2- Overall aim of Course:** This course aimed to equip the master student with the advanced knowledge, skills and attitudes related to critical health problems in children from birth through adolescence to apply effective management.

#### 3- Intended Learning Outcomes of Course (ILOs)

##### a- Knowledge and Understanding :

**By the completion of this course the student should be able to**

A1-Identify common laboratory and diagnostic tests useful in the diagnosis of critical conditions.

A2- Recognize common medical treatments in pediatric emergencies

A3- Recognize the concept of hemodynamic monitoring.

A4- Describe the process of exchange transfusion.

A5- Describe cardio-pulmonary resuscitation.

##### b- Intellectual Skills

**By the completion of this course the student should be able to**

B1-.Analyze high risk newborn's safe transition to extra uterine life.

B2-. Rate level of consciousness' of comatosed child

B3- Discuss basic hemodynamic monitoring concepts.

B4- Predict long term outcomes of near-drowning

##### c- Professional and practical skills

**By the completion of this course the student should be able to**

Not applicable

##### d- General and transferable skills

**By the completion of he course the student should be able to**

D-1 Adopt self learning and continuous self evaluation

- D.1 Utilize interpersonal skills to communicate effectively.  
D.2 Motivate self learning and continuous self evaluation  
D.3 Demonstrate leadership ability in conducting and managing the scientific seminars.  
D.4 Use computer skills to implement course requirements

e- **Attitude**

**By the completion of he course the student should be able to**  
Not applicable

#### 4- Course Contents:

Week	Topic	No. of hours	
		Lecture	practical
1	1. Common Medical Treatments in pediatric emergencies 2. Medical Problems of High Risk Newborns <ul style="list-style-type: none"> <li>▪ High risk conditions related dysmaturity</li> <li>▪ High risk related to disturbed respiratory function</li> <li>▪ High risk related to infectious processes</li> <li>▪ High risk related to cardiovascular/ hematologic complications</li> <li>▪ High risk related to neurologic disturbance</li> </ul>	10	
2	3. Hemodynamic monitoring 4. Respiratory Arrest	4	
3	5. Shock 6. Cardiac Arrhythmias and Arrest	4	
4	7. Near-Drowning 8. Poisoning	4	
5	9. Trauma	2	

6	10. Respiratory failure	2	
7	11. Acute renal failure	2	
8	12. Acute congestive heart failure	2	

### Teaching and learning methods :

- **5.1** Group discussion
- **5.2** Interactive lectures
- **5.3** Self- learning
- **5.4** Electronic –learning

### - Student Assessment :

#### A- Assessment Method

- Written examination.
- Oral examination.

#### B- Time Schedule

At the end of the course

#### C- Grading system

	Score	%
Final written	60	60
Oral exam	40	40

### 7- List of References

**A - Course Note: Not applicable**

**B - Required Books (Text Books)**

- Marcdante KJ, Kliegman HB, & Behrman RE (2011): Nelson Essentials Of Pediatrics, 6<sup>th</sup> ed. Saunders Co., Canada.
- Kliegman RM, Jenson HB, Behrman RE, and Stanton BF (Eds) (2007). Nelson Textbook of Pediatrics, 18<sup>th</sup> ed. Saunders Elsevier Co., Philadelphia

#### C - Recommended Books

- Lucking SE, Maffei FA, Tamburro RF and Thomas NJ (2012): Pediatric Critical Care Study Guide: Text and Review. Springer Co., New York
- Fuhrman BP and Zimmerman JJ (2011): Pediatric Critical Care: Expert Consult Premium, 4<sup>th</sup> ed. Mosby Co., Philadelphia.
- Barry P, Morris K and Ali T (2010): Pediatric Intensive Care. Oxford University Press Co., New York.

- Derek S. Wheeler DS, Wong HR and Shanley TP (2009): Science and Practice of Pediatric Critical Care Medicine. Springer Co., New York.
- Kirpalani H, Huang LH and Duffet M (2009): Manual of Pediatric Intensive Care. PMPH Co., USA.

**D - Periodicals, Web Sites, ...etc**

emedicine - medscape pediatrics: - [http://emedicine.medscape.com/pediatrics\\_general](http://emedicine.medscape.com/pediatrics_general)

American Academy of Pediatrics [www.aap.org](http://www.aap.org)

**8- Facilities required for teaching and learning**

Course Coordinator: **Prof. Dr. Nehad Ahmed Karm**

Head of Department : **Prof. Dr. Amal Mohammed EL-Da khakhny**

Date:     /     /

University: Zagazig University  
Faculty/Institute: Faculty of Nursing  
Department: Pediatric Nursing Department

Course name	Critical care
Course code	431

Content of Course	Knowledge	Intellectual Skills	Professional skills	General skills	Attitude
1. Common Medical Treatments in pediatric emergencies	A2			D1, D2, D3, D4.	
2. Hemodynamic monitoring	A3	B3		D1, D2, D3, D4.	
3. Respiratory Arrest	A1, A5			D1, D2, D3, D4.	
4. Shock	A1, A5			D1, D2, D3, D4.	
5. Cardiac Arrhythmias and Arrest	A1, A5			D1, D2, D3, D4	
6. Near-Drowning	A1	B4		D1, D2, D3, D4.	
7. Poisoning	A1			D1, D2, D3, D4	
8. Trauma	A1			D1, D2, D3, D4	
9. Medical Problems of High Risk Newborns	A1	B1		D1, D2, D3, D4	
10. Respiratory failure	A1			D1, D2, D3, D4.	
11. Acute renal failure	A1			D1, D2, D3, D4,	
12. Acute congestive heart failure	A1			D1, D2, D3, D4	

13. Rh-incompatibility and exchange transfusion process	A1, A4			D1, D2, D3, D4	
14. Glasgow coma scale		B2		D1, D2, D3, D4	

رئيس مجلس القسم العلمي:

Prof. Dr. Amal Mohammed EL-Da khakhny  
Hesham

عضو هيئة التدريس :

Prof. Dr. Mervat