Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title: Anesthesiology and intensive care	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	V
ECTS credits (incl. semester breakdown)	5
Type/s of training	lectures (4h) /seminars(8h)/ practical (58h – including 6h stimulation)
Form of assessment*	☐graded assessment: ☒descriptive ☐test ☐practical ☐oral ☐non-graded assessment ☒final examination ☐descriptive ☒test ☐practical ☐oral
Head of the Department/ Clinic, Unit	dr n. med. Konrad Jarosz
Tutor responsible for the module	Prof. dr hab. n. med. Joanna Sołek-Pastuszka joanna.solek.pastuszka@pum.edu.pl
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/studenci/informacje_z_jednostek/wm/klinika_anestezjologii_i_intenswnej_terapii/
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		The course objectives are as follows: 1. To introduce the fundamentals of anaesthesiology and intensive care, familiarizing participants with the specific responsibilities of anaesthesiologists in the operating theatre and hospital settings, as well as their work with patients in the Intensive Care Unit (ICU). 2. To learn, reinforce, and apply international algorithms for Basic Life Support (BLS) and Advanced Life Support (ALS) in practical scenarios.
Prerequisite /essential requirements	Knowledge	Fundamentals of human anatomy, physiology and pathophysiology. Fundamentals of acid-base balance issues. Fundamentals of ALS and BLS algorithms. Principles of radiographic imaging fundamentals.
	Skills	Hand disinfection, moving in the sterile surgical field, preparing the sterile surgical field, peripheral venous cannulation, clinical examination of the patient with elements of neurological examination.
	Competences	Ethical standards, medical confidentiality, the need for self- education.

Description of the learning outcomes for the subject /module			
No. of learning outcome	**Student, who has passed the (subject) knows /is able to /can:**	**SYMBOL (referring the standards)**	**Method of verification of learning outcomes***
W04	A student knows the principles of perioperative safety, preparation of the patient for surgery, administering general and local anaesthesia and controlled sedation	K_F.W4	ET, S, PS,K
W05	A student knows postoperative treatment with analgesic therapy and postoperative monitoring	K_F.W5	ET, S, PS,K
W06	A student knows the indications and principles of application of intensive therapy	K_F.W6	ET, S, PS,K
W07	A student knows the current guidelines for cardiopulmonary resuscitation of newborns, children and adults	K_F.W7	ET, S, PS,K
W15	A student knows the principles of suspicion and diagnosis of brain death	K_F.W15	ET, S, PS,K
U02	U02 A student uses basic surgical instruments	K_F.U2	S
U03	A student complies with the principles of asepsis and antisepsis	K_F.U3	S
U05	A student knows how to perform peripheral venipuncture	K_F.U5	S
U10	A student performs basic resuscitation using automated external defibrillator	K_F.U10	S

	and other emergency procedures and give first aid		
U11	A student pefroms the proceure in accordance with the current advanced resuscitation algorithm	K_F.U11	S
U12	A student monitors the postoperative period based on basic vital signs	K_F.U12	S
U21	A student assesses the condition of the unconscious patient and determine according to the current international scoring scales	K_F.U21	S
K01	A student accepts the need for ethical standards	K_K01	O
K02	A student understands the concept and the need for responsibility for the entrusted good	K_K02	O
K03	A student shows the habit of self-education, understands the need of lifelong learning, is able to inspire and organize the learning process of others	K_K03	O
K04	A student cooperates with team members; can cooperate in a group taking up different roles	K_K04	O
K05	A student**,** during observations and functional tests, observes proper relations between the examiner and the examined	K_K05	O
K10	A student accepts the need to speak a foreign language	K_K10	O
K11	A student is aware of the patient's rights	K_K11	O
K14	A student can maintain medical confidentiality	K_K14	O
K15	A student is able to take care of his own safety, as well as that of his surroundings and colleagues	K_K15	O
K17	A student is aware of his/her own limitations and knows when to turn to experts	K_K17	O
K20	A student shows respect towards patients/clients/social groups for their welfare	K_K20	O

Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	**Learning outcomes**	**Type of training**						
		Lecture	**Seminar**	**Practical**	**Clinical classes**	**Simulations**	**E-learning**	**Other…**

W04	A student knows the principles of perioperative safety, preparation of the patient for surgery, administering general and local anaesthesia and controlled sedation		X	X	X	X	X	
W05	A student knows postoperative treatment with analgesic therapy and postoperative monitoring	X		X	X		X	
W06	A student knows the indications and principles of application of intensive therapy	X		X	X	X	X	
W07	A student knows the current guidelines for cardiopulmonary resuscitation of newborns, children and adults			X	X	X		
W15	A student knows the principles of suspicion and diagnosis of brain death		X	X	X		X	
U02	U02 A student uses basic surgical instruments			X	X	X		
U03	A student complies with the principles of asepsis and antisepsis			X	X	X		
U05	A student knows how to perform peripheral venipuncture			X	X	X		
U10	A student performs basic resuscitation using automated external defibrillator and other emergency procedures and give first aid			X	X	X		
U11	A student pefroms the proceure in accordance with the current advanced resuscitation algorithm			X	X	X		
U12	A student monitors the postoperative period based on basic vital signs			X	X	X		
U21	A student assesses the condition of the unconscious patient and determine according to the current international scoring scales		X	X	X	X		

K01	A student accepts the need for ethical standards			X	X	X		
K02	A student understands the concept and the need for responsibility for the entrusted good			X	X	X		
K03	A student shows the habit of self-education, understands the need of lifelong learning, is able to inspire and organize the learning process of others		X	X	X	X	X	
K04	A student cooperates with team members; can cooperate in a group taking up different roles			X	X	X		
K05	A student**,** during observations and functional tests, observes proper relations between the examiner and the examined			X	X	X		
K10	A student accepts the need to speak a foreign language		X	X	X		X	
K11	A student is aware of the patient's rights			X	X	X		
K14	A student can maintain medical confidentiality			X	X	X		
K15	A student is able to take care of his own safety, as well as that of his surroundings and colleagues			X	X	X		
K17	A student is aware of his/her own limitations and knows when to turn to experts		X	X	X	X	X	
K20	A student shows respect towards patients/clients/social groups for their welfare			X	X	X		

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	**Teaching programme**	**No. of hours**	**References to learning outcomes**
Lectures			
W05	Treatment of acute pain.	2	K_F.W05
W06	Indications for treatment in the ICU setting	2	K_F.W06
Seminars			
W04	Perioperative care of the patient, general, regional and local anaesthesia	3	K_F.W04
W06	Respiratory, circulatory, renal failure, acid-base imbalance - treatment in ICU conditions	3	K_F.W06

W15	Seminar - Brain death	2	K_F.W15
Practical classes			
W04	Preoperative anesthesia assessment	4	K_F.W04
W04	Perioperative care of the patient. General, regional and local anaesthesia	10	K_F.W04
U12	Monitoring the perioperative period	8	K_F.U12
W07	Principles of cardiopulmonary resuscitation	12	K_F.W07
W06	Indications for treatment in the ICU	4	K_F.W06
W06	Rules of treatment in the ICU setting - respiratory, circulatory, renal failure, acid-base imbalance.	8	K_F.W06
W15	Futile therapy in the ICU. Brain death - diagnostic procedures. Organ harvesting after cardiac arrest.	3	K_F.W15
K01 K02 K03 K04 K05 K10 K11 K14 K15 K17 K20	Ethical standards in the operating theatre and ICU	4	K_F.K01 K_F.K02 K_F.K03 K_F.K04 K_F.K05 K_F.K10 K_F.K11 K_F.K14 K_F.K15 K_F.K17 K_F.K20
Simulation			
U05	Central and peripheral intravenous accesses	1	K_F.U05
W06	Respiratory, circulatory, renal failure, acid-base imbalance - treatment in ICU conditions	2	K_F.W06
W07	Principles of cardiopulmonary resuscitation	3	K_F.W07
E-learning			
U05	Central and peripheral intravenous accesses		K_F.U05
W06	Indications for treatment in the ICU, respiratory, circulatory, renal failure, acid-base imbalance - treatment in the ICU setting		K_F.W6

Booklist
Obligatory literature:
1. Wytyczne Resuscytacji 2021, Europejska Rada Resuscytacji Polska Rada Resuscytacji.
2. Anestezjologia. Crash Course. Mark Weinert M. red. wyd. pol. Kubler A. Edra Urban & Partner 2019.
3. Postępowanie w bólu pooperacyjnym 2018 — stanowisko Sekcji Znieczulenia Regionalnego i Terapii Bólu Polskiego Towarzystwa Anestezjologii i Intensywnej Terapii, Polskiego Towarzystwa Znieczulenia Regionalnego i Leczenia Bólu, Polskiego Towarzystwa Badania Bólu oraz Konsultanta Krajowego w dziedzinie anestezjologii i intensywnej terapii. Misiołek. H. i inni. Anestezjologia i Intensywna Terapia 3/2018, vol. 50.
Supplementary literature:
1. Clinical anaesthesia / Carl L. Gwinnutt. 4th ed.Chichester :Wiley-Blackwell,cop. 2012. ISBN 978-0470658925 https://ebookcentral.proquest.com/lib/pamszczecinebooks/reader.action?docID=1120614

2. Intensywna Terapia Dorosłych t. I i II Zbigniew Rybicki Wydaw.

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	70
Time spent on preparation to seminars/ practical classes	12
Time spent on reading recommended literature	18
Time spent on writing report/making project	0
Time spent on preparing to colloquium/ entry test	15
Time spent on preparing to exam	35
Other …..	
Student's workload in total	150
ECTS credits for the subject (in total)	5
Remarks	

* Selected examples of methods of assessment:
EP – written examination
EU – oral examination
ET – test examination
EPR – practical examination
K – colloquium
R – report
S – practical skills assessment
RZĆ – practical classes report, incl. discussion on results
O – student's active participation and attitude assessment
SL – lab report
SP – case study
PS - assessment of student's ability to work independently
W – entry test
PM – multimedia presentation
other…