

Pomeranian Medical University in Szczecin[PUM] COURSE SYLLABUS General information

Name of Course: Anaesthesiology and intensive care				
Type of course	Compulsory			
PUM Faculty	Faculty of Medicine and Dentistry			
Field of study	Medicine			
Specialization	Anaesthesiology and Intensive Care			
Level of study	Long-term studies			
Form of study	full-time/ part-time			
Year of study /semester	V			
Number of ECTS credits allocated	4			
Forms of teaching (number of hours)	4 lectures/8 seminars/40 pracxtical exercises			
	□ graded credit: □ descriptive credit □ test credit □ practical credit □ oral credit			
Methods of verification and assessment of learning outcomes *	☐ credit without grade			
	☐ final exam: ☐ descriptive credit ☑ test credit ☐ practical credit ☐ oral credit			
Head of Unit	Prof. Dr. med. Romuald Bohatyrewicz, MD, prof. Ph.D romuald.bohatyrewicz@pum.edu.pl			
Teaching assistant professor or person	Dr n. med. Joanna Sołek-Pastuszka, MD, Ph.D			
responsible for the course	joanna.pastuszka@pum.edu.pl			
Name and contact details of unit	Department of Anaesthesiology, Intensive Care of the Pomeranian Medical University SPSK 1 ul. Unii Lubelskiej 1, 71-252 Szczecin. phone 91-425 33 78, fax 91 425 33 86, e-mail: klanest@pum.edu.pl			
Unit's website	www.pum.edu.pl			
Language of instruction	Polish/English			

^{*}tick as appropriate, changing □ to ☒

Detailed information

Course obje	ectives	The course objective is: 1. the introduction to the basics of anaesthesiology and intensive care, familiarisation with the specificity of anaesthesiologist work in the operating theatre and hospital, work with patients in the conditions of ICU. 2. learnining and consolidating, and practical application of international algorithms for basic (BLS) and advanced resuscitation (ALS).
D. II.	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.
Preliminary requirements in terms of Skills Social competences		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.
		Ethical standards, medical confidentiality, the need for self-education.

LEARNING (LEARNING OUTCOMES						
Number of eucational outcomes	A student who has completed of the COURSE knows/can:	SYMBOL (reference to) learning outcomes for the field of study	Method of verifying the 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	A student uses basic surgical	K_F.U2	S				

	instruments		
770.0	A student complies with the principles		~
U03	of asepsis and antisepsis	K_F.U3	S
770.7	A student knows how to perform		~
U05	peripheral venipuncture	K_F.U5	S
	A student performs basic resuscitation		
7710	using automated external defibrillator		~
U10	and other emergency procedures and	K_F.U10	S
	give first aid		
	A student pefroms the proceure in		
U11	accordance with the current advanced	K_F.U11	S
	resuscitation algorithm	_	
1110	A student monitors the postoperative	IZ E 1110	C
U12	period based on basic vital signs	K_F.U12	S
	A student assesses the condition of the		
1101	unconscious patient and determine	Z E 1101	C
U21	according to the current international	K_F.U21	S
	scoring scales		
K01	A student accepts the need for ethical	V V01	О
KUI	standards	K_K01	U
	A student understands the concept and		
K02	the need for responsibility for the	K_K02	O
	entrusted good		
	A student shows the habit of self-		
K03	education, understands the need of	V V02	О
KU3	lifelong learning, is able to inspire and	K_K03	U
	organize the learning process of others		
	A student cooperates with team		
K04	members; can cooperate in a group	KK04	O
	taking up different roles		
	A student, during observations and		
K0	functional tests, observes proper	K_K05	О
KO	relations between the examiner and the	K_KOS	O
	examined		
K10	A student accepts the need to speak a	K_K10	O
1110	foreign language	IL_IXIO	<u> </u>
K11	A student is aware of the patient's	K_K11	O
	rights	11_1111	
K14	A student can maintain medical	K_K14	O
	confidentiality	11_1111	
	A student is able to take care of his		_
K15	own safety, as well as that of his	K_K15	O
	surroundings and colleagues		
****	A student is aware of his/her own	** ***	_
K17	limitations and knows when to turn to	K_K17	O
	experts		
****	A student shows respect towards	T7 T700	_
K20	patients/clients/social groups for their	K_K20	O
	welfare		

able of learning outcomes in relation to the form of classes								
		Form of the class		es	es			
No	Learning outcomes	Lecture	Seminar	Practrical	Clinical exercises	Simulations	E-learning	Other forms
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	Х	
W05	A student knows postoperative treatment with analgesic therapy and postoperative monitoring	X		Х	х		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	A student uses basic surgical instruments			X	X	X		
U03	A student complies with the principles of asepsis			X	X	X		
U05	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 perfoms the procedure in accordance with the current advanced resuscitation algorithm			X	х	X		
U12	A student monitors the postoperative period based on basic vital signs			х	X	X		
U21	A student assesses the condition of the unconscious patient and determine according to the current international scoring scales		X	х	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			Х	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		_	Х	X	X		

K0	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		

Curriculum number	Curriculum content	Numbe r of hours	Reference to the learning outcomes for the CLASSES
	Lectures		
W05	Treatment of acute pain.	2	K_F.W5
W06	Indications for treatment in the ICU setting	2	K_F.W6
	Seminars		
W04	Perioperative care of the patient, general, regional and local anaesthesia	3	K_F.W4
W06	Respiratory, circulatory, renal failure, acid-base imbalance - treatment in ICU conditions	3	K_F.W6
W15	Seminar - Brain death	2	K_F.W15
	Practical Exercises	L	
W04	Perioperative care of the patient, general, regional and local anaesthesia	3	K_F.W4
U12	Practical exercises - monitoring the perioperative period	3	K_F.U12
W07	Principles of cardiopulmonary resuscitation	12	K_F.W7
W06	Indications for treatment in the ICU, respiratory, circulatory, renal failure, acid-base imbalance - treatment in the ICU setting	10	K_F.W6
W 15	Futile therapy in the ICU. Brain death - diagnostic procedures. Organ harvesting after cardiac arrest.	3	K_F.W15
K01			K_K01
K02			K_K02
K03	Dragatical Evansians athird standards in the		K_K03
K04	Practical Exercises - ethical standards in the	3	K_K04
K05	operating theatre and ICU		K_K05
K10			K_K10
K11			K_K11

K14			K_K14
K15			K_K15
K17			K K17
K20			K K20
	Simulation		
U05	Central and peripheral intravenous accesses	1	K_F.U5
W06	Respiratory, circulatory, renal failure, acid-base imbalance - treatment in ICU conditions	2	K_F.W6
W07	Principles of cardiopulmonary resuscitation	3	K_F.W7
	E-learning		
U05	Central and peripheral intravenous accesses		K_F.U5
W06	Indications for treatment in the ICU, respiratory, circulatory, renal failure, acid-base imbalance - treatment in the ICU setting		K_F.W6

Recommended Literature:

Reference literature

- 1. Polska Rada Resuscytacji Wytyczne Resuscytacji 2015
- 2. Podstawy anestezjologii i intensywnej terapii, pod redakcją prof. Z. Kruszyńskiego, skrypt AM w Poznaniu, rok wydania 2010 r.
- 3. Crash Course Anesthesiology Mark Weinert, ed. Andrzej Kubler Edra Urban & Partner 2019

4.

https://www.researchgate.net/publication/327114536_Postepowanie_w_bolu_pooperacyjnym_2018_-stanowisko_Sekcji_Znieczulenia_Regionalnego_i_Terapii_Bolu_Polskiego_Towarzystwa_Anestezj ologii_i_Intensywnej_Terapii_Polskiego_Towarzystwa_Znieczulenia_Region?enrichId=rgreq-2ef70f426498e4aedf6420139f835473-

XXX&enrichSource=Y292ZXJQYWdlOzMyNzExNDUzNjtBUzo2NjQ5MDI0ODIwMjI0MDBAM TUzNTUzNjUxMzI2NQ%3D%3D&el=1_x_2&_esc=publicationCoverPdf

Complementary literature

1. Clinical anaesthesia / Carl L. Gwinnutt. 4th ed.Chichester :Wiley-Blackwell,cop. 2012. ISBN 978-0470658925

https://ebookcentral.proquest.com/lib/pamszczecin-ebooks/reader.action?docID=1120614

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

Student workload	
Form of student workload	Student workload [h].
(class participation, activity, report preparation, etc.)	In the teacher's assessment (opinion)
Contact hours with the teacher/instructor	52
Preparation for practical exercises/seminar	12
Reading the recommended literature	18
Writing a lab/exercise report/preparing a project/reference, etc.	0
Preparation for a test/short test	12

Preparing for the exam	3			
Other				
Total student workload	97			
ECTS credits	4			
Notes				

*Example Methodss of verification of educational outcomes:

EP - written exam

EU - oral test

ET - test exam

EPR - practical test

K - test

R - paper

S - testing of practical skills

RZĆ - report from practical exercises with discussion of results

O - assessment of student's activity and attitude

SL - Laboratory report

SP - case study
PS - assessment of ability to work independently
W - short test before the beginning of classes

PM - multimedia presentation

and other