

## Course description

### Part 1

General information about the course		
1. <b>Major of study:</b> medicine	2. <b>Study level:</b> unified MSc 3. <b>Form of study:</b> intramural	
4. <b>Year:</b> 6	5. <b>Semester:</b> 11,12	
6. <b>Course name:</b> Anesthesiology and intensive care		
7. <b>Course status:</b> required		
8. <b>Course contents and assigned learning outcomes</b>		
<p>Learning outcomes / reference to learning outcomes indicated in the standards</p> <p>For knowledge – student knows and understands: F.W4, F.W5, F.W6, F.W7</p> <p>For skills student can do: E.U7, E.U14, E.U16, E.U18, E.U19, E.U18, E.U20, E.U21, E.U.29, E.U30, E.U33, E.U34, E.U37, F.U5, F.U10, F.U11, F.U12 E.U17, F.U21, F.W5</p> <p>For social competencies student is ready to:</p>		
Social competencies	1. Student respects the patient intimacy	D.U14
	2. Student is guided by the patient interest	D.U5
	3. Student respects doctor-patient confidentiality	D.U12
	4. Student knows his limitations and constantly extends his knowledge	D.U16
9. <b>Number of hours for the course</b>		<b>60</b>
10. <b>Number of ECTS points for the course</b>		<b>2.5</b>
11. <b>Methods of verification and evaluation of learning outcomes</b>		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – MCQ Oral Exam	At least 70% and more correct answers
Skills	Report Observation Practical exam	Execution of required procedures
Competencies	Observation	Proper attitude during classes

\* The following evaluation system has been assumed:

**Very good (5,0)** – the assumed learning outcomes have been achieved and significantly exceed the required level

**Better than good (4,5)** – the assumed learning outcomes have been achieved and slightly exceed the required level

**Good (4,0)** – the assumed learning outcomes have been achieved at the required level

**Better than satisfactory (3,5)** – the assumed learning outcomes have been achieved at the average required level

**Satisfactory (3,0)** – the assumed learning outcomes have been achieved at the minimum required level

**Unsatisfactory (2,0)** – the assumed learning outcomes have not been achieved

## Course description

### Part 2

Other useful information about the course		
<b>12. Name of Department, mailing address, e-mail:</b> Katedra Anestezjologii i Intensywnej Terapii, kait@uck.katowice.pl		
<b>13. Name of the course coordinator:</b> Tomasz Jaworski tjaworski@sum.edu.pl		
<b>14. Prerequisites for knowledge, skills and other competencies:</b>		
Knowledge of anatomy, physiology and patophysiology of circulatory and respiratory system		<b>1</b>
Knowledge of anatomy, physiology and patophysiology of central and peripheral nervous system		<b>2</b>
Knowledge of anatomy, physiology and patophysiology of gastrointestinal tract and endocrine system		<b>3</b>
Knowledge of physiology and patophysiology of fluid, electrolyte, acid-base balance		<b>4</b>
Knowledge of diagnosing, prevention and treatment of infections		<b>5</b>
Knowledge of pharmacology of general and local anesthetics, analgesics, antimicrobial drugs		<b>6</b>
Knowledge of taking and interpretation of microbiological samples		<b>7</b>
Knowledge of Basic Life Support		<b>8</b>
Skills to perform BLS		<b>9</b>
Skills to perform medical examination and interpretation of blood samples		<b>10</b>
<b>15. Number of students in groups</b>	In accordance with the Senate Resolution	
<b>16. Study materials</b>	Surgical scrubs, spare shoes, stethoscopes, surgical masks, surgical caps, surgical gloves	
<b>17. Location of classes</b>	Klinika Anestezjologii i Intensywnej Terapii Uniwersyteckie Centrum Kliniczne im. prof. K. Gibińskiego SUM ul. Medyków 14, 40-752 Katowice	
<b>18. Location and time for contact hours</b>	Klinika Anestezjologii i Intensywnej Terapii Uniwersyteckie Centrum Kliniczne im. prof. K. Gibińskiego SUM ul. Medyków 14, 40-752 Katowice  Tuesday 13:00-15:00	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards

P_W01 / C_K01	Student knows how to qualify and is able to perform general and regional anesthesia. Student is aware of its side-effects	F.W4
P_W02 / C_K02	Student knows criteria for ICU admission and discharge	F.W6
P_W03 / C_K03	Student is able to identify life threatening situations and knows the basic treatment	F.W7
P_W04 / C_K04	Student knows how to calculate perioperative risk and the rules of patient monitoring	F.W5
P_W05 / C_K05	Student knows how to treat acute and chronic pain	F.W5
P_W06 / C_K06	Student understands problem of life ending and is able to diagnose brain-death	F.W6
P_U01/C_S01	Student is able to recognize life threatening situations and is able to introduce treatment	E.U7, E.U14, E.U30, E.U33, E.U34, F.U10, F.U21
P_U02/C_S02	Student is able to perform ALS and BLS	E.U.29, F.U5, F.U10, F.U11
P_U03/C_S03	Student is able to calculate perioperative risk, to monitor vital signs and plan early postoperative procedures	E.U20, E.U21, F.U12
P_U04/C_S04	Student is able to choose anesthesia in accordance to performed surgery, is able to calculate its risk, identify and treat its side-effects	E.U17, F.U21
P_U05/C_S05	Student is able to plan post-surgical analgesia and chronic pain treatment in terminally ill patients	E.U16, E.U18, E.U19, F.W5, F.U21
P_U06/C_S06	Student is able to plan brain death diagnostics and is able to identify organ donors	E.U18, E.U37
P_U01/C_C01	Student is able to make full of respect contact with the patient	DU4
P_U02/C_C02	Student shows respect to the family of critically ill patient and prioritizes their dignity	DU5
P_U03/C_C03	Student respects intimacy and disability of a patient	DU14
P_U4 / C_C04	Student actions are directed by patient well being	DU5
P_U5 / C_C05	Student respects doctor-patient confidentiality and patient's rights	DU12
P_U5 / C_C05	Student knows his limitations and constantly extends his knowledge	DU16

## 20. Forms and topics of classes

**Number of hours**

### 22.2. Seminars

<b>Anesthesiology – introduction</b>	<b>1</b>
<b>General anesthesia – techniques, indications, side effects.</b>	<b>1</b>
<b>Regional anesthesia – techniques, indications, side effects</b>	<b>2</b>
<b>Muscle relaxants, Opioids</b>	<b>1</b>
<b>Postoperative pain – pathophysiology, treatment</b>	<b>2</b>
<b>Perioperative medicine – risk calculation, criterias for discharge from operative theater, recovery room</b>	<b>2</b>
<b>Patient monitoring in anesthesiology and intensive care</b>	<b>1</b>
<b>Postoperative complications – epidemiology, diagnostics, treatment</b>	<b>2</b>
<b>Qualification for Intensive Care Unit, RRT</b>	<b>3</b>
<b>Perioperative antibiotic prophylaxis. Infections in ICU. Sepsis</b>	<b>2</b>
<b>Brain death, Organ donation</b>	<b>3</b>

<b>ERAS</b>	<b>2</b>
<b>Anesthesiology and Intensive Therapy in cardiology and cardiosurgery</b>	<b>1</b>
<b>ALS, Hipotermia</b>	<b>4</b>
<b>Intensive Therapy – selected issues</b>	<b>3</b>
	<b>30</b>
<b>23.3. Labs</b>	
<b>General anesthesia. Classes in the operating theater</b>	<b>7</b>
<b>Regional anesthesia. Classes in the operating theater</b>	<b>7</b>
<b>Qualification for anesthesia. Choice of the safest type of anesthesia.</b>	<b>3</b>
<b>Diagnosing and treatment of multi organ dysfunction on the ICU</b>	<b>7</b>
<b>Techniques and methods of patient monitoring during anesthesia and on ICU. Classes in the operating theater and ICU</b>	<b>3</b>
<b>Performing procedures done by anesthetist in Operating Theater and ICU</b>	<b>7</b>
<b>Direct perioperative care. Classes in the Operating Theater and Recovery Room</b>	<b>3</b>
<b>Analgesia, Analgosedation,</b>	<b>3</b>
	<b>40</b>
<b>24. Readings</b>	
1). Fundamentals of Anaesthesia – Colin Pinnock, Tim Smith, Ted Lin 2). Anesthesia Crash Course - Charles N. Horton 3). Harrison's Principles of Internal Medicine, 20e. - J. Larry Jameson, Anthony S. Fauci, Dennis L. 4). Oxford Handbook of Anaesthesia - Keith G. Allman	
<b>25. Detail evaluation criteria</b>	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulations	