

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Cardiac Surgery, Medical University of Silesia, Ziolowa 47, 40-635 Katowice; kkch@sum.edu.pl		
13. Name of the course coordinator: Professor Marek A Deja MD, PhD		
14. Prerequisites for knowledge, skills and other competencies: <div><div>1. Knowledge about cardiovascular system anatomy with the emphasis on coronary vessels anatomy; knowledge about pulmonary anatomy</div><div>2. The knowledge and ability of diagnostic tests interpretations including imaging of cardioascular system and coronary angiography</div><div>3. The knowledge of pulmonary and cardiovascular system physiology.</div><div>4. The knowledge of pathophysiology of coronary heart disease, valvular heart disease, aneursms, aortic dissection, acute and chronic heart failure and arrythmias. The knowledge about the pathology of lung tumors, acute heart failure, pneumothorax and chest</div><div>5. The ability to perform physical examination of the patient with the emphasis on the exam of cardiovascular and pulmonary system.</div><div>6. The knowledge of priniciples of cardiopulmonary bypass, indications and prniciples of mechanical cardiac support.</div><div>7. The practical knowledge of aseptic and antiseptic techniques, disinfection and sterilisation used in clinical medicine.</div><div>8. The knowledge of pharmacotherapy of coronary heart disease, valvular heart disease, acute and chronic heart failure and renal insufficiency.</div><div>9. The ability to use the Swan-Ganz catheter. The knowdledge of the priniciples of therapy of patient mechanically ventilated treated in Intensive Care Unit.</div></div>		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Multimedia presentations, handbooks, guidelines.	
17. Location of classes	Department of Cardiac Surgery, Medical University of Silesia, Ziolowa 47, 40-635 Katowice	
18. Location and time for contact hours	Office of the Department; 8 am – 3 pm.	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 /	Etiology, symptoms, diagnosis and treatment of thoracic diseases	F.W1.

C_K01		
P_W02 / C_K02	Assignment to basic surgical and invasive diagnostic and therapeutic procedures, their execution and most frequent complications.	F.W3.
P_W03 / C_K03	Principles of perioperative safety, patient's preparation to surgery, execution of general and local anesthesia	F.W4.
P_W04 / C_K04	Postoperative treatment with analgesia and postoperative monitoring	F.W5.
P_U01 / C_S01	Thoracentesis	E.U30.
P_U02/ C_S02	Pericardiocentesis	E.U30.
P_U03 / C_S03	Pleural cavity drainage	E.U30.
P_U04 / C_S04	Preparation of the operating field, local anesthesia, assisting in surgical procedures	F.U1.
P_U05 / C_S05	Patient monitoring in the postoperative period	F.U12.
P_U06 / C_S06	Performing basic resuscitation procedures with the use of automated external defibrillator	F.U10.
20. Forms and topics of classes		Number of hours
21.1. Lectures		20
Lung neoplasms		4
Congenital heart defects		4
Coronary artery disease		4
Diseases of aorta		4
Extracorporeal circulation		4
23.3. Labs		40
Thoracentesis		5
Physical examination of the patient before planned cardiac surgical procedures		5
Measuring of hemodynamic status with Swan Ganz catheter, the assessment of cardio-pulmonary function and the treatment of the patient in the ICU		5
Surgical suturing		5
The use of cardiopulmonary bypass and myocardial protection during cardiac surgical procedures		5
Pleural cavity drainage		5
Patient monitoring in the postoperative period		5
Preparation of the operating field, local anesthesia, assisting in surgical procedures		5
24. Readings		
Lawrence H Cohn „Cardiac surgery in the adult” Robert M. Bojar “Perioperative care in adult cardiac surgery” Guidelines on myocardial revascularization, European Heart Journal, 2018 Guidelines on the management of valvular heart disease, European heart Journal, 2017		

25. Detail evaluation criteria		
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		