COURSE DESCRIPTION CHART

Discipline code	12.6-3LEK-F-CHN	
Name of discipline	Polish	**Chirurgia naczyniowa**
	English	**Vascular surgery**

1. POSITION OF DISCIPLINE IN THE STUDY SYSTEM

1.1. Study specialty	medicine
1.2. Form of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study	practical
1.5. Specialization	lack
1.6. Unit conducting the discipline	Faculty of Medicine and Health Sciences UJK
1.7. Person preparing course description chart	dr hab. n. med. Maciej Kielar Prof. UJK
1.8. Person responsible for the discipline	dr hab. n. med. Maciej Kielar Prof. UJK
1.9.Person conducting the discipline	dr hab. n. med. Maciej Kielar Prof. UJK
1.10. Contact	Kielar63@interia.pl. Tel 601284203

2. GENERAL CHARACTERISTICS OF THE DISCIPLINE

2.1. Affiliation to module	facultative
2.2. Status of discipline	facultative
2.3. Language of tuition	English
2.4. Semesters for performance of the discipline	6-9 semester of study
2.5. Preliminary requirements	Performed outcomes in general surgery

3. FORMS, WAYS AND METHODS OF CONDUCTING CLASSES

1.1. Types of classes		lectures, seminars, practical trainings
1.2. Way of conducting classes		Lecture halls at the Faculty, department of vascular surgery
1.3. Way of obtaining credits for classes		Tests, oral examinations, syllabus
3.1. Didactic methods		verbal, perceptions, independent experiences, use of didactic resources
3.2. List of literature	**basic**	1. Eureka: Cardiovascular Medicine 9781907816826 2. Cardiovascular Intervention 9780323262194
	supplementary	Master Techniques in Surgery: Vascular Surgery: Hybrid, Venous, Dialysis Access, Thoracic Outlet, ISBN: 9781451191578

4. AIMS, PROGRAMME CONTENT AND EDUCATION OUTCOMES

4.1. Aims

C_1- familiarizing students with symptoms, clinical image, course, prognosis, risk factors and epidemiology of vascular diseases

C2- presentation of diagnostic techniques in diseases of arteries and veins

C3 - familiarizing students with the methods of conservative treatment, rehabilitation, and surgical treatment of vascular diseases (classic and endovascular)

C4 - acquisition of knowledge of immediate and distant results of surgical treatment, occurrence of early and distant complications (local, infectious, cardiovascular, metabolic (reperfusion syndrome). Assessment of the quality of life during the course of treatment of vascular diseases, post-operative and ambulatory care. Progress in vascular surgery.

4.2. Programme content

Education in the field of vascular surgery

Educational content

1. Anatomy and physiology of the vascular system.
2. Clinical symptoms of diseases of arteries and veins, classification of vascular diseases.

3. Diagnostics of vascular diseases: clinical examinations, imaging tests (Doppler USG, angiotomography, angioresonance, digital angiography, scintigraphy, other diagnostic methods)
4. Indications and contraindications for conservative and surgical treatment in diseases of arteries and veins
5. Methods of conservative treatment.
6. Surgical treatment of diseases of arteries and veins. Classic and endovascular surgery.
7. Technical aspects of classic and endovascular surgeries, equipment, instruments, vascular prostheses, stents and stent-grafts.
8. Perioperative care, most frequent complications immediate and distant (local surgical complications, infections, cardiovascular, haematologic).
9. Outcomes of surgical and conservative treatment, assessment of the quality of life following bypass surgery.
10. Secondary vascular procedures, outcomes, risk, complications.
11. Progress in vascular surgery. Contribution of Polish medicine to the development of this domain of surgery. New perspectives: progress in biotechnology, gene therapy, importance of angiogenic cytokines in the treatment of vascular diseases

Education outcomes in the discipline				
code	**Student who obtained credit**	**Degree of saturation of outcome in discipline 1 [+] [++] [+++]**	**Reference to education outcomes**	
			for discipline	**for area/standard**
within the scope of **KNOWLEDGE**:				
W01	knows anatomical, histological and embryological terminology in Polish and English;	+	A.W1.	
W02	knows human anatomy topographically (upper and lower limb, chest, abdomen, pelvis, back, neck and head) and functionally (respiratory system, digestive system, urogenital system, nervous system and sense organs, integumentary system);	+	A.W2.	
W03	knows eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;	++	F.W3.	
W04	knows perioperative safety rules, preparing a patient for surgery, general and local anesthesia and controlled sedation;	+	F.W4.	
W05	knows postoperative treatment and analgesic therapy as well as post-operative monitoring;	+	F.W5.	
W06	knows the issues concerning modern imaging tests, in particular: a) basic radiological symptomatology of diseases, b) instrumental methods and imaging techniques used to perform medical treatments,	+	F.W10.	

	c) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents;			
within the scope of **SKILLS:**				
U01	conducts a review of medical history of the adult patient;	+	E.U1.	
U02	conducts a review of medical history of the child and its family;	++	E.U2.	
U03	conducts full and targeted physical examination of the adult patient;	+	E.U3.	
U04	performs differential diagnosis of the most common diseases in adults and children;	+	E.U12.	
U05	recognizes states of a direct threat to life;	++	E.U14.	
U06	plans diagnostic, therapeutic and preventive procedures;	+	E.U16.	
U07	qualifies the patient for home treatment and hospitalization;	+	E.U20.	
U08	assists during a typical surgery, prepares the surgical site and locally anesthetizes operated area;	+	F.U1.	
U09	uses basic medical tools;	+	F.U2.	
U10	complies with the aseptic and antiseptic rules;	+	F.U3.	
U11	manages simple wounds and changes sterile surgical dressing;	+	F.U4.	
U12	collects blood for toxicological studies and secures the material for hemogenetic research in accordance with given principles.	++	G.U7.	

4.3. Criteria for evaluation of obtained education outcomes				
Grade 3	**Grade 3.5**	**Grade 4**	**Grade 4.5**	**Grade 5**
Lecture – test results				
51%- 60%	61%-70%	71%-80%	81%-90%	91%-100%

4.4. Evaluation methods

Oral examination	**Written examination**	**Project**	**Colloquium - with grade**	**Homework**	**Presentation Reports**	**Discussions**	**Others**
	x						

5. TOTAL ECTS CREDIT POINTS – STUDENT'S WORK LOAD

Category	Student's work load full-time study
Participation in didactic classes specified in the study plan (contact hours)	**35**
- Participation in lectures	**15**
- Participation in classes, discussion sessions, laboratories, etc.	**20**
Participation in consultations/ PRACTICAL CLASSES	
Preparation for examination/participation in examination, final test, etc.	
Others	
Independent student's work (non-contact hours)	**15**
Preparation for lecture	
Preparation for classes, discussion sessions, laboratory, etc.	**10**
Preparation for examination/colloquium	**5**
Collection of material for the project, web query	
Elaboration of multimedia presentation	
Preparation of entry for wikipedia	
Others	
Total number of hours	**50**
ECTS credit points for discipline	**2**