Appendix number 1.5 to The Rector UR Resolution No. 12/2019

SYLLABUS

**concerning the cycle of education 2024-2030**

(date range)

* 1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

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| --- | --- |
| Subject / Module | Surgery |
| Course code / module \* | Ch/F |
| Faculty of (name of the leading direction) | Medical College of Rzeszów University |
| Department Name | Clinic or Department of Internal Diseases. |
| Field of study | medical direction |
| Level of education | uniform master's studies |
| Profile | practical |
| Form of study | stationary / extramural |
| Year and semester | year V, semester IX |
| Type of course | obligatory |
| Coordinator | dr hab. J. Olędzki |
| First and Last Name of the Teacher | dr hab. prof. UR Andrzej Komorowski |

\* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lecture | Exercise | Conversation | Laboratory | Seminar | ZP | Practical | Self-learning | **Number of points ECTS** |
| 15 | 30 | - | - | 30 | - | - | - | **4** |

1.3. The form of class activities

☒classes are in the traditional form

☐classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, credit with grade or credit without grade)

2. REQUIREMENTS

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| Knowledge of the basics of surgery, including: wound delivery techniques and basic procedures, surgical anatomy, pathophysiology, histopathology, treatment of infections, imaging diagnostics |

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

* 1. Objectives of this course/module

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| --- | --- |
| C1 | Mastering the theoretical foundations concerning the etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses. |
| C2 | Getting to know the work in the surgical ward, on the operating theater, in the endoscopic laboratory and in the surgical clinic. |
| C3 | Acquiring the ability to examine patients with abdominal diseases and perform basic surgical operations, i.e. bladder catheterization, dressing change, removal of seams, drains, stomach probing, etc. |
| C4 | Ability to assist in the surgery, |
| C5 | Ability to prepare the operating room and perform local anesthesia in the surgical area; |
| C6 | Broadening the knowledge of general surgery with elements of urology, endocrinology, cardiology |
| C7 | Mastering the theoretical and practical basis in the field of thoracic and general surgery, cardiac surgery and transplantology |

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

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| --- | --- | --- |
| EK (the effect of education) | The content of the learning effect defined for the subject (module) | Reference to directional effects (KEK) |
| EK­\_01 | He knows and understands the causes, symptoms and principles  diagnosing and therapeutic treatment in  for the most common diseases requiring intervention  surgery, taking into account the distinctiveness of childhood,  including in particular:  a) acute diseases of the abdominal cavity,  b) chest diseases,  c) diseases of limbs and head,  d) bone fractures and organ injuries; | F.W1. |
| EK\_02 | He knows selected issues in the field of pediatric surgery, including traumatology and otorhinolaryngology, defects and acquired diseases being indications for surgical treatment in children; | F.W2 |
| EK\_03 | He knows the rules of qualification and performance as well as the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures; | F.W3 |
| EK\_04 | He knows the principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation | F.W4 |
| EK\_05 | He knows in the basic scope the issues of surgical transplantology, indications for transplantation of irreversibly damaged organs and tissues and procedures related to this; | F.W14. |
| EK\_06 | Assists with a typical surgical procedure, prepares an operating field and desensitizes the localized area; | F.U1 |
| EK\_07 | Uses basic surgical instruments; | F.U2. |
| EK\_08 | Applies to the principles of asepsis and antisepsis; | F.U3. |
| EK\_09 | Supplies a simple wound, assumes and changes the sterile surgical dressing; | F.U4 |
| EK\_10 | He examines nipples, lymph nodes, thyroid gland and abdominal cavity in the aspect of acute abdomen, as well as performs a finger examination through the anus; | F.U6. |
| EK\_11 | He is able to establish and maintain a deep and respectful contact with the patient | K.01. |
| EK\_12 | He is guided by the good of the patient, placing them in the first place | K.02. |
| EK\_13 | Respects medical confidentiality and patient's rights | K.03. |

**3.3 CONTENT CURRICULUM (filled by the coordinator)**

**A. Lectures**

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| **Course contents** |
| The use of imaging studies in urology |
| Methods of treatment of urological cancers  Pre-operative care and perioperative management |
| Primary and secondary spontaneous pneumothorax |
| Diagnostic and therapeutic videotoraccoscopy |
| Tumors and mediastinal cysts |
| Lung cancer - diagnostics and surgical treatment |
| Injuries that penetrate and do not penetrate the chest |

**B**. **Exercises**

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| **Course contents** |
| The operating system of the newborn's surgery department.  Preparing a newborn for surgery.  Perioperative care |
| Operative procedures in pediatric surgery - operating block |
| Surgical dispensary - basic surgical procedures |
| Operative procedures in pediatric surgery - operating block |
| Classes in the endoscopic laboratory |
| Classes in the ultrasound laboratory |
| Classes in a surgical outpatient |
| Patients' examination, assistance with dressing changes, administration of infusion fluids, blood preparations |
| Care for the patient in the postoperative period |
| Acquiring the skills of establishing surgical nodes and the principles of desiamurgy |
| Learning surgical sewing |
| Classes in the operating room |
| Introduction to urology |
| Uroonkologia |
| Urolithiasis |

**C. Seminars**

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| **Course contents** |
| Qualification and preparation of patients for surgery as well as operational risk and principles of postoperative management. |
| Peritonitis. |
| Inflammation of the appendix. |
| Acute pancreatitis and surgical methods of treatment of pancreatic diseases. |
| Esophagus surgery. |
| Gastric and duodenal surgery. |
| Biliary surgery with laparoscopic method. |
| Spleen and liver surgery and hypertension in the portal system. |
| Bowel obstruction. |
| Colonic surgery. |
| Surgery of the rectum and anus. |
| Thyroid and parathyroid surgery. |
| The place of urology in surgery |
| Selected aspects of urological oncology |
| Prostatic diseases |

**3.4 TEACHING METHODS**

Lecture: lecture with multimedia presentation.

Exercises: practical classes

Seminar: lecture with multimedia presentation, own work.

Student's own work: work with a book

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

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| Symbol of effect | Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes |
| EK\_01,EK\_02  EK\_03,EK\_04  EK\_05 | Written test with open, closed and problem questions. | Lecture |
| EK\_06,EK\_07  EK\_08,EK\_09  EK\_10, EK\_11, EK\_12, EK\_13 | Practical credit - case study. | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| **Lectures (EK\_01, EK\_02, EK\_03EK\_04, EK\_05):**  1. test pass and open questions:  A: Questions in the field of messages to remember;  B: Questions in the field of speech to understand;  C: Solving a typical written task;  D: Solving an atypical writing task;  - for insufficient solution of tasks only from areas A and B = grade 2.0  - for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0  - for solving tasks from the area A + B + C, the possibility of obtaining max. grade 4.0 - for solving tasks from the A + B + C + D area, the possibility of obtaining a rating of 5.0  **Knowledge assessment:**  Written test  5.0 - has knowledge of each of the contents of education at the level of 90% -100%  4.5 - has knowledge of each of the content of education at the level of 84% -89%  4.0 - has knowledge of each of the content of education at the level of 77% -83%  3.5 - has knowledge of each of the content of education at the level of 70% -76%  3.0 - has knowledge of each of the content of education at the level of 60% -69%  2.0 - has knowledge of each of the contents of education below 60%  **Classes, seminars (EK\_06, EK\_07, EK\_08, EK\_09, EK\_10)**  credit with an assessment including:  - attendance  - activity on exercises  - grades from partial tests  **Skill assessment**  5.0 - the student actively participates in the classes, is well prepared, very well acquires theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, is able to correctly examine the patient with abdominal disorders and perform basic surgical procedures  4.5 - the student actively participates in the classes, has a good degree of theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical diseases, it is able to carry out the examination of a patient with abdominal disorders and perform basic surgical procedures  4.0 - the student actively participates in classes, is improved, has a good theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, he is able to correctly test a patient with abdominal diseases and perform basic surgical operations  3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he has sufficiently acquired theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical diseases, it is able to carry out the examination of a patient with abdominal disorders and perform basic surgical procedures, however, it is often corrected  3.0 - student participates in classes, sufficiently acquired theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical diseases, can carry out the examination of a patient with abdominal disorders and perform basic surgical operations, however, it is often corrected  2.0 - the student passively participates in the classes, the statements are incorrect in substance, he did not sufficiently acquire theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, he cannot properly carry out the examination of the patient with abdominal diseases and perform basic surgical procedures, make frequent mistakes |

5. Total student workload required to achieve the desired result in hours and ECTS credits

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| --- | --- |
| Activity | Hours / student work |
| Hours of classes according to plan with the teacher | 75 |
| Preparation for classes | 10 |
| Participation in the consultations | 2 |
| The time to write a paper / essay | - |
| Preparation for tests | 15 |
| Participation in colloquia | **1** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **103** |
| TOTAL NUMBER OF ECTS | **4** |

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

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| --- | --- |
| Number of hours | - |
| Rules and forms of apprenticeship | - |

1. LITERATURE

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| **READING:**  1. Bradbury A.W, Forsythe.L.RJ., Garden O.J., Parks R.W.. „Chirurgia”. Podręcznik dla studentów, wyd. I polskie, red. Borówka A., Dziak A., Kołodziej J., Popiela T., Szmidt J., Zembala M., Ząbek M., Wydawnictwo Urban & Partner, Wrocław 2009.  2. Noszczyk W.. „Chirurgia repetytorium”. Wyd. I, Wydawnictwo Lekarskie PZWL, Warszawa 2009. 3. Czernik J. (red.): Chirurgia Dziecięca. PZWL, W‐wa 2005.  4. Wagner A A.: Chirurgia dziecięca – Poradnik dla lekarzy pierwszego kontaktu. PZWL, W‐ wa, 2003.  5. Noszczyk W.: Chirurgia repetytorium . PZWL ‐ Warszawa 2009  6. Noszczyk W.: Chirurgia. PZWL ‐ Warszawa 2005  7.Pączek L., Mucha K., Foroncewicz B. (red.), Transplantologia praktyczna. Tom 1.Odrzucanie przeszczepu. Wydawnictwo Czelej 2008.  8. Pączek L., Foroncewicz B., Mucha K. (red.), Transplantologia praktyczna. Tom 2.Nowotwory po przeszczepieniu narządów. Wydawnictwo Naukowe PWN 2009.  9. Nutbeam T., Daniels R., Procedury zabiegowe, PZWL, 2011.  10. Theresa Campo, Keith Lafferty , Stany nagłe. Podstawowe procedury zabiegowe. |

Acceptance Unit Manager or authorized person