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

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

\* - 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 | 25 | - | - | 20 | - | - | 65 | **5** |

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 foundations in the field of thoracic and general surgery, cardiosurgery 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, | 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 qualifications 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 | Assists with a typical surgical procedure, prepares an operating field and desensitizes the localized area; | F.U1 |
| EK\_06 | Uses basic surgical instruments; | F.U2. |
| EK\_07 | Applies to the principles of asepsis and antisepsis; | F.U3. |
| EK\_08 | Supplies a simple wound, assumes and changes the sterile surgical dressing; | F.U4 |
| EK\_09 | He examines nipples, lymph nodes, thyroid gland and abdominal cavity in the aspect of an acute abdomen, and also performs a finger examination through the anus. | F.U6. |
| EK\_10 | He is able to establish and maintain a deep and respectful contact with the patient | K.01. |
| EK\_11 | He is guided by the good of the patient, placing them in the first place | K.02. |
| EK\_12 | 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** |
| Abs rectal abscesses |
| Fistulas around rectal |
| Colorectal cancer |
| Principles of surgical treatment of colon diseases |
| Diagnosis of acute abdominal diseases. |
| Thyroid neoplasms. |
| A hypercalcemic breakthrough - diagnostics and rules of conduct. |
| Biliary surgery - diagnostics and treatment. |
| Complications in surgery - management and treatment. |

**B**. **Exercises**

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| **Course contents** |
| Demonstration of surgical patients. Subject research. Discussing the sick.Physical examination of patients, discussion of techniques depending on the type of disease. |
| Rules of conduct in a trauma reception room. Proceedings with traumatic patients in Clinical Units. Intensive Post-Operative Care Unit. Practical rules of dealing with patients in shock. |
| Practical classes as part of the operating block. Surgical tools - division and application. The science of surgical suturing. |
| Methods for sterilization of surgical instruments and dressing material. Antisepsis of the hands and operating field. |
| Qualification for surgical procedures. Basic indications for surgical procedures in vascular surgery. Discussion based on the examined patients. |
| The operating system of the surgical ward. The specificity of pediatric surgery. Perioperative management. |
| One day surgery - basic surgical procedures in pediatric surgery - operating block |
| Injuries in children - a hospital emergency department |
| One day surgery - basic surgical procedures in pediatric surgery - operating block |

**C. Seminars**

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| **Course contents** |
| The specifics of the surgical examination. Basic principles of differential diagnosis in surgery, taking into account the latest supplementary diagnostic methods (endoscopic, ultarsonographic and computed tomography) |
| Injuries. Classifications of injuries (open, closed, fractures, dislocations). Injuries of the vaso-nerve bundle, bones and joints. Injuries to internal organs. Wounds and their types, methods of healing and surgical treatment. |
| The organizational system of surgical care in children |
| One day surgery - basic surgical procedures in pediatric surgery |
| Basic injuries in children |
| Acute abdominal discomfort and so-called "Acute scrotum" |
| Burns |
| Newborn surgery |
| Pediatric surgery. Minimally invasive surgery |
| Pediatric urology. Children's oncology |

**3.4 TEACHING METHODS**

**Wykład**: wykład z prezentacją multimedialną.

**Ćwiczenia**: zajęcia praktyczne

**Seminarium**: wykład z prezentacją multimedialną, praca własna.

**Praca własna studenta:** praca z książką

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 | Written test with open, closed and problem questions. | Lectures |
| EK\_03,EK\_04,EK\_05, EK\_06, EK\_07, EK\_08, EK\_09, EK\_10, EK\_11, EK\_12 | Practical credit - case study. | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| **Lectures (EK\_01, EK\_02):**  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%  **Exercises, seminars (EK\_03, EK\_04, EK\_05, EK\_06, EK\_07)**  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 chronić 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 chronić 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 chronić 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 can not 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 | 60 |
| Preparation for classes | 30 |
| Participation in the consultations | 2 |
| The time to write a paper / essay | - |
| Preparation for tests | 35 |
| Participation in colloquia | **1** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **128** |
| TOTAL NUMBER OF ECTS | **5** |

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