

## 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>                                                                                                                                                                                             |                                                           | 5. <b>Semester:</b>                 |
| 6. <b>Course name:</b>                                                                                                                                                                                      |                                                           |                                     |
| 7. <b>Course status:</b> required                                                                                                                                                                           |                                                           |                                     |
| 8. <b>Course contents nad assigned learning outcomes</b>                                                                                                                                                    |                                                           |                                     |
| Learning outcomes / reference to learning outcomes indicated in the standards<br>For knowledge – student knows and understands:<br>For skills student can do<br>For social competencies student is ready to |                                                           |                                     |
| 9. <b>Number of hours for the course</b>                                                                                                                                                                    |                                                           | 60                                  |
| 10. <b>Number of ECTS points for the course</b><br><i>*for the whole block of surgery elective</i>                                                                                                          |                                                           | 2,5                                 |
| 11. <b>Methods of verification and evaluation of learning outcomes</b>                                                                                                                                      |                                                           |                                     |
| Learning outcomes                                                                                                                                                                                           | Methods of verification                                   | Methods of evaluation*              |
| Knowledge                                                                                                                                                                                                   | Written evaluation – open questions<br>Grade credit – MCQ | *                                   |
| Skills                                                                                                                                                                                                      | Report<br>Observation<br>Practical exam                   | *                                   |
| Competencies                                                                                                                                                                                                | Observation                                               | *                                   |

\* 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

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

## Course description

### Part 2

| Other useful information about the course                                                                                                               |                                                                                                                                                                           |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 12. Name of Department, mailing address, e-mail:<br>Department of Gastrointestinal Surgery, kchpp@sum.edu.pl                                            |                                                                                                                                                                           |                                                           |
| 13. Name of the course coordinator: Sławomir Mrowiec MD. PhD,                                                                                           |                                                                                                                                                                           |                                                           |
| 14. Prerequisites for knowledge, skills and other competencies:<br>Credits and passed examinations prescribed by the syllabus for the 5rd year of study |                                                                                                                                                                           |                                                           |
| 15. Number of students in groups                                                                                                                        | In accordance with the Senate Resolution                                                                                                                                  |                                                           |
| 16. Study materials                                                                                                                                     |                                                                                                                                                                           |                                                           |
| 17. Location of classes                                                                                                                                 | 14 Medyków St., 40-752 Katowice, PL floor 7 and 8                                                                                                                         |                                                           |
| 18. Location and time for contact hours                                                                                                                 |                                                                                                                                                                           |                                                           |
| 19. Learning outcomes                                                                                                                                   |                                                                                                                                                                           |                                                           |
| Number of the course learning outcome                                                                                                                   | Course learning outcomes                                                                                                                                                  | Reference to learning outcomes indicated in the standards |
| P_W01 / C_K01                                                                                                                                           | A student knows gallbladder and biliary tract diseases, can diagnose and differentiate them.                                                                              | F.W3, F.W4                                                |
| P_W02 / C_K02                                                                                                                                           | A student knows the history of laparoscopy                                                                                                                                |                                                           |
| P_W02 / C_K03                                                                                                                                           | A student knows the indications and contraindications to laparoscopy                                                                                                      | F.W3, F.W4                                                |
| P_W02 / C_K04                                                                                                                                           | A student knows the ERAS protocol                                                                                                                                         | F.W3, F.W4, F.W5,                                         |
| P_W02 / C_K05                                                                                                                                           | A student knows the surgical instruments and their respective application and is familiar with the techniques and the scope of procedures in large intestine laparoscopy  | F.W3, F.W4                                                |
| P_W02 / C_K06                                                                                                                                           | A student knows the surgical instruments and their respective application and is familiar with the techniques and the scope of procedures in small intestine laparoscopy  | F.W3, F.W4                                                |
| P_W02 / C_K07                                                                                                                                           | A student knows the surgical instruments and their respective application and is familiar with the techniques and the scope of procedures in laparoscopic cholecystectomy | F.W3, F.W4                                                |

|                                                                                                               |                                                                                                                                                                                 |                                     |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| P_W02 / C_K08                                                                                                 | A student knows the surgical instruments and their respective application and is familiar with the techniques and the scope of procedures in laparoscopic appendectomy          | F.W3, F.W4                          |
| P_W02 / C_K09                                                                                                 | A student knows the surgical instruments and their respective application and is familiar with the technique and the scope of procedure of laparoscopic Nissen's fundoplication | F.W3, F.W4                          |
| P_W02 / C_K010                                                                                                | A student knows the surgical instruments and their respective application and is familiar with the techniques and the scope of procedures in rectal laparoscopy                 | F.W3, F.W4                          |
| P_U01 / C_S01                                                                                                 | A student is able to analyze medical documentation                                                                                                                              | A.U5 E.U24                          |
| P_U02 / C_S02                                                                                                 | A student is able to take the patient's history and to perform physical examination                                                                                             | A.U5, D.U14, E.U1, E.U3, F.U3, E.U6 |
| P_C01/C_C01                                                                                                   | A student is competent to establish a good rapport with a patient, full of respect                                                                                              |                                     |
| P_C01/C_C02                                                                                                   | A student is competent to accept the patient's welfare as a priority                                                                                                            |                                     |
| P_C01/C_C03                                                                                                   | A student keeps medical confidentiality and observes the patient's rights                                                                                                       |                                     |
| P_C01/C_C04                                                                                                   | A student is aware of his limitations and is ready to improve his skills permanently                                                                                            |                                     |
| P_C01/C_C05                                                                                                   | A student ensures appropriate conditions for examination observing the patient's privacy                                                                                        |                                     |
| <b>20. Forms and topics of classes</b>                                                                        |                                                                                                                                                                                 | <b>Number of hours</b>              |
| <b>23.3. Labs</b>                                                                                             |                                                                                                                                                                                 | <b>60</b>                           |
| Gallbladder and biliary tract diseases: obstructive jaundice, diagnostics and differentiation                 |                                                                                                                                                                                 | 6                                   |
| The history of laparoscopy                                                                                    |                                                                                                                                                                                 | 6                                   |
| Indications and contraindications for laparoscopy                                                             |                                                                                                                                                                                 | 6                                   |
| The ERAS protocol                                                                                             |                                                                                                                                                                                 | 6                                   |
| Laparoscopic small intestine surgery                                                                          |                                                                                                                                                                                 | 6                                   |
| Laparoscopic large intestine surgery                                                                          |                                                                                                                                                                                 | 6                                   |
| Cholecystectomy                                                                                               |                                                                                                                                                                                 | 6                                   |
| Appendectomy                                                                                                  |                                                                                                                                                                                 | 6                                   |
| Nissen's fundoplication                                                                                       |                                                                                                                                                                                 | 6                                   |
| Laparoscopic rectal surgery                                                                                   |                                                                                                                                                                                 | 6                                   |
| <b>24. Readings</b>                                                                                           |                                                                                                                                                                                 |                                     |
| Major readings: Principles and practice of Surgery. O.J. Garden, A. W. Bradbury, J.L.R. Forsythe, R. W. Parks |                                                                                                                                                                                 |                                     |
| <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

|           | <b>For grade 2</b>                                                                                                                                                          | <b>For grade 3</b>                                                                                                                                                           | <b>For grade 4</b>                                                                                                                         | <b>For grade 5</b>                                                                                                                                                                      |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>K1</b> | A student doesn't know and is not able to differentiate gallbladder and biliary tract diseases                                                                              | A student knows some gallbladder and biliary tract diseases                                                                                                                  | A student knows gallbladder and biliary tract diseases                                                                                     | A student knows gallbladder and biliary tract diseases and is able to differentiate them                                                                                                |
| <b>K2</b> | A student doesn't know the history of laparoscopy                                                                                                                           | A student knows some facts from the history of laparoscopy                                                                                                                   | A student knows the most important facts from the history of laparoscopy                                                                   | A student perfectly knows the history of laparoscopy                                                                                                                                    |
| <b>K3</b> | A student doesn't know the indications and contraindications for laparoscopy                                                                                                | A student knows some indications and contraindications for laparoscopy                                                                                                       | A student knows all of the indications and contraindications for laparoscopy                                                               | A student knows all of the indications and contraindications for laparoscopy and is able to discuss them                                                                                |
| <b>K4</b> | A student is not familiar with the ERAS protocol                                                                                                                            | A student is familiar with the most important assumptions of the ERAS protocol                                                                                               | A student is familiar with all the assumptions of the ERAS protocol                                                                        | A student is familiar with and knows how to use the ERAS protocol                                                                                                                       |
| <b>K5</b> | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedures in large intestine laparoscopy | A student partially knows surgical instruments for large intestine laparoscopic surgery and more important techniques and range of procedures in large intestine laparoscopy | A student knows surgical instruments for large intestine laparoscopy and techniques and range of procedures in large intestine laparoscopy | A student knows instruments for large intestine laparoscopic surgery and techniques and range of procedures in large intestine laparoscopy. Student is able to assist in such surgeries |
| <b>K6</b> | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedures in small intestine laparoscopy | A student partially knows surgical instruments for small intestine laparoscopic surgery and more important techniques and range of procedures in small intestine laparoscopy | A student knows surgical instruments for small intestine laparoscopy and techniques and range of procedures in small intestine laparoscopy | A student knows instruments for small intestine laparoscopic surgery and techniques and range of procedures in small intestine laparoscopy. Student is able to assist in such surgeries |

|            |                                                                                                                                                                                     |                                                                                                                                                                                          |                                                                                                                                                                       |                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                                                                                                                                     | intestine laparoscopy                                                                                                                                                                    | laparoscopy                                                                                                                                                           | surgeries                                                                                                                                                                                                     |
| <b>K7</b>  | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedures in laparoscopic cholecystectomy        | A student partially knows surgical instruments for laparoscopic cholecystectomy and more important techniques in these procedure                                                         | A student knows surgical instruments for laparoscopic cholecystectomy and more important techniques in these procedure                                                | A student knows instruments for laparoscopic cholecystectomy and more important techniques in these procedure. Student is able to assist in such surgeries                                                    |
| <b>K8</b>  | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedures in laparoscopic appendectomy           | A student partially knows surgical instruments for laparoscopic appendectomy and more important techniques in these procedure                                                            | A student knows surgical instruments for laparoscopic appendectomy and more important techniques in these procedure                                                   | A student knows instruments for laparoscopic appendectomy and more important techniques in these procedure. Student is able to assist in such surgeries                                                       |
| <b>K9</b>  | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedure in laparoscopic Nissen's fundoplication | A student knows how surgical instruments look like and what most of them are used for and knows more important techniques and range of procedure in laparoscopic Nissen's fundoplication | A student knows how surgical instruments look like and what they are used for and knows the techniques and range of procedure in laparoscopic Nissen's fundoplication | A student knows how surgical instruments look like and what they are used for and knows the techniques and range of procedure in laparoscopic Nissen's procedure. Student is able to assist in such surgeries |
| <b>K10</b> | A student doesn't know how surgical instruments look like and what they are used for, and doesn't know the technique and range of procedure in laparoscopic rectal surgery          | A student partially knows surgical instruments for laparoscopic rectal surgery and more important techniques in these procedure                                                          | A student knows surgical instruments for laparoscopic rectal surgery and more important techniques in these procedure                                                 | A student knows instruments for laparoscopic rectal surgery and more important techniques in these procedure. Student is able to assist in such surgeries                                                     |
| <b>S1</b>  | A student is not able to                                                                                                                                                            | Based on the                                                                                                                                                                             | Based on the                                                                                                                                                          | Based on the                                                                                                                                                                                                  |

|           |                                                                                              |                                                                                                |                                                                                                                                              |                                                                                                                                                                                       |
|-----------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | analyse the medical documentation                                                            | documentation, a student is able to propose proper diagnosis and to interpret the test results | documentation, a student is able to propose proper diagnosis and to interpret the test results and to evaluate the onset of the disease      | documentation, a student is able to propose proper diagnosis, to interpret the test results to evaluate the grade of the disease and to propose further treatment                     |
| <b>S2</b> | A student is not able to take the patients history and to perform the physical examination   | A student is able to take the patients history and to perform the physical examination         | A student is able to take the patients history, to perform the physical examination and to draw proper conclusions following the examination | A student is able to take the patients history ,to perform the physical examination and to draw proper conclusions following the examination, showing appropriate examination skills. |
| <b>C1</b> | A student fails to establish good rapport with the patient                                   | A student establishes good rapport with the patient                                            | A student easily establishes good rapport with the patient                                                                                   | A student easily establishes good rapport with the patient, showing understanding of the patients situation                                                                           |
| <b>C2</b> | A student fails to accept the good of the patient as a priority                              | A student accepts the good of the patient as a priority                                        | A student accepts the good of the patient as a priority during examination and when proposing further treatment                              | A student accepts the good of the patient as a priority during examination and when proposing further treatment and when selecting additional investigations                          |
| <b>C3</b> | A student fails to observe the rules of medical confidentiality or the rights of the patient | A student observes the rules of medical confidentiality or the rights of the patient           | A student observes the rules of medical confidentiality or the rights of the patient                                                         |                                                                                                                                                                                       |
| <b>C4</b> | A student shows poor awareness of own                                                        | A student is aware of own limitations and                                                      | A student is aware of own                                                                                                                    | A student is aware of own limitations and                                                                                                                                             |

|           |                                                                           |                                                                   |                                                                                                                              |                                                                                                                                              |
|-----------|---------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|           | limitations and recognizes no need for permanent study                    | recognizes the need for permanent study                           | limitations and recognizes the need for permanent study and during classes spares no effort to gain the knowledge and skills | recognizes the need for permanent study and during classes spares no effort to gain the knowledge and skills, showing systematized knowledge |
| <b>C5</b> | A student fails to observe the established rules of examining the patient | A student observes the established rules of examining the patient | A student observes the established rules of examining the patient                                                            | A student observes the established rules of examining the patient                                                                            |