



| Syllabus 2019/2020 | | | | | | | | | | | | | | |
|---|---|---------------|-------------------------|-----------------------------------|-----------------------|-------------------------|---------------------------------------|--------------------------------------|---|-------------------------------|-------------------------------------|--|---------------------------------|-----------------|
| Description of the course | | | | | | | | | | | | | | |
| Module/Course | ULTRASONOGRAPHY IN GASTROENTEROLOGY | | | | | | | | | | Group of detailed education results | | | |
| | | | | | | | | | | | Group code F | Group name Interventional Clinical Sciences | | |
| Faculty | Medicine | | | | | | | | | | | | | |
| Major | medicine | | | | | | | | | | | | | |
| Specialties | Not applicable | | | | | | | | | | | | | |
| Level of studies | Uniform magister studies <input checked="" type="checkbox"/> *x 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/> | | | | | | | | | | | | | |
| Form of studies | X full-time part-time | | | | | | | | | | | | | |
| Year of studies | IV and V | | | | | Semester | x Winter | | x Summer | | | | | |
| Type of course | <input type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input checked="" type="checkbox"/> free choice / elective | | | | | | | | | | | | | |
| Course | x major <input type="checkbox"/> basic | | | | | | | | | | | | | |
| Language of instruction | <input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other | | | | | | | | | | | | | |
| * mark <input type="checkbox"/> with an X | | | | | | | | | | | | | | |
| Number of hours | | | | | | | | | | | | | | |
| Form of education | | | | | | | | | | | | | | |
| Unit teaching the course | Lectures (L) | Seminars (SE) | Auditorium classes (AC) | Major Classes – not clinical (MC) | Clinical Classes (CC) | Laboratory Classes (LC) | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | Specialist Classes – magister studies (SCM) | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) | E-learning (EL) |
| Winter Semester | | | | | | | | | | | | | | |
| Department of Gastroenterology and Hepatology | 5 | | | | 5 | | | | | | | | | |
| Summer Semester | | | | | | | | | | | | | | |



| Department of Gastroenterology and Hepatology | 5 | | | | 5 | | | | | | | | | |
|--|----------------------------------|---|--|--|---|---|--|--|--|----------------------|--|--|--|--|
| TOTAL per year: | | | | | | | | | | | | | | |
| Department of Gastroenterology and Hepatology | 5 | | | | 5 | | | | | | | | | |
| Educational objectives (max. 6 items) C1. Basic knowledge regarding indication for US examination C2. To get to know with ultrasound anatomy C3. How to find pathological changes in US examination of abdomen C4. Indications and Technique of endoultrasound examination C5. Training of practical skills of ultrasound examination | | | | | | | | | | | | | | |
| Education result matrix for module/course in relation to verification methods of the intended education result and the type of class | | | | | | | | | | | | | | |
| Number of course education result | Number of major education result | Student who completes the module/course knows/is able to | | | Methods of verification of intended education results (forming and summarising) | Form of didactic class <i>**enter the abbreviation</i> | | | | | | | | |
| K 01 | FW10 | Basic knowledge of standards of the contemporary imaging techniques | | | Discussion after lecture | L | | | | | | | | |
| S 01 | FU6 | Can perform examination of lymph nodes, thyroid glands and abdominal cavity | | | Self performance of US examination | CC | | | | | | | | |
| <p>** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .</p> <p>Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes: Knowledge: 3 Skills: 4</p> | | | | | | | | | | | | | | |
| Student's amount of work (balance of ECTS points) | | | | | | | | | | | | | | |
| Student's workload (class participation, activity, preparation, etc.) | | | | | | | | | | Student Workload (h) | | | | |
| 1. Contact hours: | | | | | | | | | | 10 | | | | |
| 2. Student's own work (self-study): | | | | | | | | | | 3 | | | | |
| Total student's workload | | | | | | | | | | 13 | | | | |
| ECTS points for module/course | | | | | | | | | | 0.5 | | | | |



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| Comments | |
| Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects) | |
| Lectures 1. Indication for liver examination 2. US examination of the liver 3. US examination of the gall bladder and biliary tract 4. US examination of the pancreas 5. US examination of the kidneys 6. US examination of the spleen 7. US examination of the retroperitoneal space 8. Endo ultrasonography | |
| Seminars 1. | |
| Practical classes 1. Indication for liver examination 2. US examination of the liver 3. US examination of the gall bladder and biliary tract 4. US examination of the pancreas 5. US examination of the kidneys 6. US examination of the spleen 7. US examination of the retroperitoneal space | |
| Other 1. 2. 3. etc. ... | |
| Basic literature (list according to importance, no more than 3 items) 1. Julie M. Nightingale, Robert L. Law, <i>Metody obrazowania przewodu pokarmowego</i> , 2011 2. H. Kremer, W. Drobinski, <i>Diagnostyka ultrasonograficzna</i> , Wydawnictwo Urban&Partner, Wrocław, 1996 3. Hamm, Bernd; Ros, Pablo R., <i>Abdominal Imaging</i> , 2013 | |
| Additional literature and other materials (no more than 3 items) 1. 2. 3. | |
| Didactic resources requirements (e.g. laboratory, multimedia projector, other...) | |



Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)
Oral and practical test.
Each absence must be made up, including rector's days or dean's hours.

| Grade: | Criteria for course |
|----------------------------|---|
| Very Good (5.0) | Can perform basic US examination of abdominal cavity |
| Good Plus (4.5) | Can perform US examination of liver and gall bladder |
| Good (4.0) | Knows basics of US examination of abdominal cavity |
| Satisfactory Plus (3.5) | Knows clinical application of US examination of abdominal cavity in diagnostics |
| Satisfactory (3.0) | Knows indications to US examinations of abdominal cavity |

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| Name of unit teaching course: | Dept. and Clinic of Gastroenterology and Hepatology |
| Address | Borowska 213, 50-556 Wrocław |
| Phone | 71 733 21 20 |
| E-mail | gastro@gastro.am.wroc.pl |

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| Person responsible for course: | Katarzyna Neubauer, MD, Ph.D |
| Phone | 71 733 21 20 |
| E-mail | katarzyna.neubauer@umed.wroc.pl |

| <i>List of persons conducting specific classes:</i> | <i>degree/scientific or professional title</i> | <i>Discipline</i> | <i>Performer profession</i> | <i>Form of classes</i> |
|---|---|-------------------|-----------------------------|--------------------------|
| Katarzyna Neubauer | MD, Ph.D, internal medicine specialist, gastroenterologist | medicine | doctor | lectures, classes |
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Date of Syllabus development


03 July 2019

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Syllabus developed by

Katarzyna Neubauer MD; Ph.D.

Signature of Head of teaching unit

Wrocław Medical University
Signature of Faculty Dean OF MEDICINE
VICE-DEAN FOR STUDIES IN ENGLISH

.....
Prof. Andrzej Hendrich, PhD

.....
Uniwersytet Medyczny we Wrocławiu
KATEDRA GASTROENTEROLOGII I HEPATOLOGII
KLINIKA GASTROENTEROLOGII I HEPATOLOGII
kierownik

.....
prof. dr hab. Eżbieta Poniewierka

