MED 4012 - Reproductology

Course Name	Code	Semester	Type of course	Theory (hours)	Group work (hours)	ECTS
Reproductology	MED 4012	VII	Elective	10	16	2

Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program "Medicine"
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Educational course format	Lecture Group work
Educational course Loading	**Total:** 60 hours **Contact hours**: 30 h, among them 1. Lecture – 10 h 2. Team work – 16 h 3. Midterms – 2 h 4. Final exam -2 h **Independent work** – 30 h
Prerequisites	MED 2008
The purpose (s) of tutorial course/modules	The aim of the learning course is to develop the knowledge and skills of reproductive medicine, endometrial implantation and family planning.
Teaching and learning methods	**Lecture - Face-to-Face;** Lecture notes and readings (power point slides for the lecture) will be provided to each lecture as a PDF file, one slide per page, to facilitate notes taking. **Work in group** – in order to develop **analysis and synthesis** skills for the interpretation, classification and evaluation of data; basic abilities to split material into simple components and solve them separately; and after that to solve the complex problem not as the separate pathological problem, and interpret is as the union part of the homeostasis of the organism.

	Inquiry – students are assessed by a verbal examination of the theoretical framework of the covered material by asking questions, which will help to coincide the obtained material with the currently getting and analyze them. **Preparation and presentation of the project –** student is able to choose the theme form the listed topics or independently, search for and find the needed material, work with the books, plan the project and describe the possible results of the projects. The project should be presented in the written form -10 printed pages material and theses defense in the Power Point before the audience. **Discussion** – the students will be collected in groups, and will discuss the concrete topic. The aim of this activity is to develop the following skills: listening culture, critical thinking, analysis, conclusion making based on the discussions.
Assessment criteria	**Maximum score- 100:** 1. **Midterm assessment -60** 　- 　Attendance on each lecture - 1 score (1X10 = 10 scores) 　- Activity in group work – **10 score:** 　- Discussion – 10 scores; 　- Abstract preparation – 10 scores 　**Midterm Exam – (20 scores)** **Group Work are Assessed Based on the Following Criteria** (maximum 10 point) **10 points** - Student has been able to present complete and thorough knowledge of the subject, a substantial amount of detailed and relevant information. Demonstrate considerable depth of understanding of the studied main and additional literature. Bring forward a balanced view of the main arguments on the issues. **9 points** - Student has been able to bring forward a consistent number of deductions on most of the topics tackled. make very good comments on the different perspectives on most of the issues. Demonstrates knowledge of the main readers. **8 points** - Student has been able to bring forward a consistent knowledge, Has properly developed terminology. Demonstrates knowledge of the main readers. **7 points** - Student has been able to present some factual information sufficiently linked with the topic. demonstrate a good understanding of the topics selected. make a good attempt to bring forward a balanced view of some arguments on the issues. Terminology is partially developed. **6 points** - Student has been able to make some good comments on the different perspectives on some of the issues. Make poor deductions on most of the topics tackled. analyse some causes and results of human interactivity related to the issues. **5 points** - Student has been able to demonstrate inconsistent comments on the different perspectives on some of the issues. Terminology is partially developed. Present mediocre level of knowledge. Make poor deductions. **4 points** - Student demonstrates general overview of the topics. Terminology is not developed. Information sufficiently linked with the topic. Demonstrate irrelevant understanding of the literature. **3 points** – Student demonstrates general/superficial and inconsistent knowledge of the subject. No sufficient knowledge of the literature. **2 points** - Student demonstrates general comments, no knowledge of the terminology, no consistency. **1 point** – Student demonstrates insufficient answer, not terminology awareness, chronologic

manner of the answer, mostly wrong, no knowledge of literature.

0 point: Student demonstrates not even elementary knowledge of the topics

Project Preparation and presentation - Grading criteria – Maximum 10 scores

1. Actuality of the problem – 1 sc;
2. Accurate planning – 1 sc;
3. Review of the literature on the issue -1sc;
4. Research methods relevance with the research goals – 1sc;
5. Logical argumentation and correlation with the main theme – 1sc;
6. Reference accuracy and correlation with the main source - 1sc;
7. Culture of writing – 1sc;
8. Language and style accuracy - 1sc;
9. Visual and technical side of the material – 1sc;
10.Culture of the discussion and listening to the opponent- 1 sc.

Discussion assessment criteria (10 score- max.)

1. Critical thinking-2 scores;
2. Debating culture -2 scores;
3. Argumentativeness ability – 2 scores;
4. Time management - 2 scores;
5. Academic and visual side of presented material – 2 scores.

Midterm exam is a test (multiple choice) that contains 40 questions, each rated 0.5 score – total 40 scores;
 The student is allowed to pass the final exam, if he accumulates not less than 11 points for the mid-term evaluations (considering that he will get the maximum score at the final exam).

Final exam - 40 scores

Final exam is a tests of 80 closed questions, each one rates 0.5 scores – total -40 scores;

The final exam is considered to be passed if the student accumulates at least **70% or more** out of the maximum assessment of the exam   (40X70/100=28 scores).

Credit will be awarded if the student accumulates at least 51 scores out of 100 scores;

 The students' assessment has to be done in the following way:

Positive rate:
    (A) Excellent- 91 or more points;
    (B) Very Good- 81-90 points;
    (C) Good- 71-80 points;
    (D) Satisfactory- 61-70 point;
    (E) Enough- 51-60 points;

Negative rate:
    (FX) Failure - 41-50 points, which means that a student needs to work more and an independent and considerable further work is required to pass the exam once again to be re-awarded;
    (F) Fail - 40 points or less, which means that the student's diligence is not sufficient and student has to learn the subject all over again.

The student can pass the additional exam during the same semester. The time interval between the final and additional exams should be not less than 10 days.

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The basic literature	1. **The Essentials of Contraceptive Technology**, A Handbook for Clinical Staff, The Johns Hopkins University School of Public Health, 2001; 2. **Williams Gynecology** (Schorge, WilliamsGynecology) [Hardcover] John O. Schorge et all. 04.21. 1 edition. 2008;	
The auxiliary literature	• Edited by:Victor Gomel, Andrewİ Brill Reconstructive and Reproductive Surgery in Gynecology, Informa Healthcare, 2010; • Norman Jeffcoat; **Edited by:** Pratap Kumar, Narendra Malhotra Jeffcoate's Principles of Gynaecology, Jaypee Brothers Medical Publishers (P) LTD,VII, 2008 • Kevin P.Hanretty Obstetrics Illustrated, Churchill Livingstone, VII, 2003; • Eric J.Bieber, Joseph S.Sanfilippo,Ira R.Horowitz Clinical Gynecology, Churchill Livingstone Elsevier, 2012; • **Edited by:** Joseph J.Apuzzio, Anthony M.Vitzileos, Leslie Iffy Operative Obstetrics Taylor&Francis Group, 2012; • Oguz Akin, Elvis Sala, Susan M.Ascher, Deborah levine, Caroline Reinhold Diagnostic Imaging Gynecology, Amirsys, 2007.	

The tutorial/training course content

№	Subjects	Lecture (hour)	Work in group (hour)
1	Introduction in reproductology. Anatomy of the male and female reproductive systems, principles of regulations of the reproductive system, assessment method of the reproductive system status (tests of functional diagnostics, spermogramm), the reproductive system pathology's research methods	2	3
2	Inflammation diseases of male and female reproductive organs. Specific and non-specific inflammatory diseases' influence on male and female reproductive system; the treatment methods of the reproductive system disorders and recovery after reproductive system's treatment.	2	3
3	Endocrine disorders of female and masculine reproductive system. Polycystic ovarian syndrome, syndrome of hyper-prolactinemia, adrenogenital syndrome. Hypogonadism in men and women organisms and its impact on reproductive function; methods of improvement of reproductive prognosis.	2	4
	Midterm Exam		2
4	Infertility, the female endocrine and tube infertility; the male infertility; the immune factors of infertility, the diagnostic treatment methods of infertile couples, extracorporeal fertilization (IVF), hyper stimulation syndrome of ovaries diagnostic and management	2	2
5	Family planning, types of abortion, their influence on the reproducibility, the types of	2	2

	contraception: natural, barrier, uterine contraception, hormonal, surgical, post-coital; Contraception efficiency, priorities, side effects and counteraction, deterioration, contraception for the different ages woman, teenagers, lactating mothers, for women over 35. Consulting for contraception.		
	Final Exam		2

Learning Outcomes

Criteria	Competences
Knowledge and Understanding	Student will have basic and comprehensive knowledge of themes determined by the learning course.
Applying knowledge	Student will have possibility to use the obtained theoretical study in practice, have ability to create the specific medical/personal history and determine the reason of infertility. Under teacher's supervision student will be able to examine patient and take part in patient's instrumental diagnostic. Student will manage the patient's reproductive problems.
Making judgements	Based on the medical history data and diagnostic results interpretation student will be able to discuss about and make the appropriate conclusions.
Communication Skills	Student will have possibility to communicate with colleges and also with patients and his/her family members.
Values	Will be aware of principles of medical ethics and uses them in professional activity, keep confidentiality.