

DISCIPLINE SHEET**ACADEMIC YEAR****2022 - 2023****1. DATA ABOUT THE STUDY PROGRAM**

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	8
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program / Qualification	Medicine

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME	OBSTETRICS AND GYNAECOLOGY		
2.2. Discipline code	MED6101		
2.3 The holder of course activities	Cernea Nicolae, Ștefania Tudorache, Iliescu Dominic, Berceanu Costin, Lorena Dijmărescu, Căpitănescu Răzvan, Comănescu Alexandru, Pătru Ciprian, Oana Tica		
2.4 The holder of seminar activities	Cernea Nicolae, Ștefania Tudorache, Iliescu Dominic, Berceanu Costin, Lorena Dijmărescu, Căpitănescu Răzvan, Comănescu Alexandru, Pătru Ciprian, Oana Tica, Sîrbu Ovidiu, Roxana Drăgușin, Sidonia Vrabie, Zorilă Lucian, Marina Dinu.		
2.5. Academic degree	Theoretical activities: Professor/Associate Professor/ Associate Professor/ Associate Professor/ Associate Professor/ Lecturer/ Lecturer/ Lecturer/ Lecturer Practical Activities: Professor/Associate Professor/ Associate Professor/ Associate Professor/ Associate Professor/ Lecturer/ Lecturer/ Lecturer/ Lecturer/ Assistant Professor/ Assistant Professor/ Assistant Professor/ Assistant Professor/ Assistant Professor.		
2.6. Employment (base norm/associate)	Base norm/associate		
2.7. Year of study	VI	2.8. Semester	I
2.9. Course type (content)		CSD	
2.10. Regime of the discipline (compulsoriness)			

3. THE ESTIMATED TOTAL TIME (teaching hours per semester)

3.1 Number of hours per week	16	3.2 From which course	4	3.3 seminary/laboratory	12
3.4 Total hours of educational plan	224	3.5 From which course	56	3.6 seminary/laboratory	168
Time found distribution (hours)					
Study from manual, course support, bibliography and notes					20
Additional documentation in the library, specialized electronic platform and on the field					10
Training seminars / labs, homework, reports, portfolios and essays					10
Tutoring					5
Examinations					5
Other activities, counselling, student scientific programs					1
3.7 Total of hours of individual study	51				
3.9 Total of hours per semester	275				
3.10 Number of credits	11				

4. PREREQUISITES (where appropriate)

4.1 curriculum	Solid knowledge of anatomy, physiology, physiopathology and semiology
4.2 competency	

5. CONDITIONS (where appropriate)

5.1. of course deployment	Lecture room with online access and projector
5.2. of seminars/ lab deployment	Practical demonstrations room / simulation centre / operation room / labor ward / treatment room / patient ward / online platform

6. SPECIFIC COMPETENCES ACQUIRED	
PROFESSIONAL COMPETENCES	<p>C1 – Pregnancy identification, correct diagnosis of pregnancy and gestational age.</p> <p>C2 – Identification of the most frequent pregnancy related complications.</p> <p>C3 – Correct identification of the most frequent gynaecological condition(s) and development of an adequate therapeutic management.</p> <p>C4 – Development and implementation of an adequate prenatal care plan and an optimal therapeutical plan for the management of the most common gynecological diseases.</p> <p>C5 – Correct evaluation of the disease risk, general / individual risk factors and context of a specific condition, and the identification of the proper prophylactic management.</p> <p>C6 – Community approaches for sexual transmitted conditions, with regard to the socio-economic and cultural particularities.</p> <p>C7 – Initiation and/or implementation of scientific research in Obstetrics and Gynecology.</p>
TRANSVERSAL COMPETENCES	<p>TC 1 – Autonomy and responsibility</p> <ul style="list-style-type: none"> • Identification of pregnant women’s psychological particularities, risk factors in obstetrics, gynecological illnesses and implementation of an adequate management and treatment solutions. • acquirement of moral standards, civic and professional principles, that stimulate the students to become honest, correct, peaceful, cooperant and understanding professionals available to help the patients in distress and interested in the community development. • the knowledge, understanding, contribution and respect for moral and ethical principles in their profession. <p>TC 2 – Social interaction</p> <ul style="list-style-type: none"> • to recognize and respect diversity and multiculturalism. • to express or learn to develop team-work abilities. • demonstration of verbal and written communication skills regarding the needs, requirements, work modalities, obtained results and team collaboration. • involvement in voluntary activities. <p>TC 3 – Personal and professional development</p> <ul style="list-style-type: none"> • interest in learning and continuing update of medical knowledge throughout the entire career. • the understanding of the individual study necessity, as a base of personal autonomy and professional development. • optimal and creative use of the self-potential in group activities. • the ability to use information and communication technologies.

7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the discipline	<ul style="list-style-type: none"> - acquirement of general knowledge on the physiology and pathology of the reproductive system; - thorough knowledge of basic obstetrical concepts: maternal physiological particularities during conception and gestation, intrauterine development of the fetus, birth mechanism and monitoring, puerperium care, hygienic, prophylactic and therapeutic protocols for pregnancy, birth and puerperium. - optimal knowledge of basic gynecology concepts: the physiopathology, diagnostic and treatment particularities of gynecological conditions, identification of proper prophylactic and therapeutic protocols for the respective conditions and their convalescence monitoring.
7.2 The specific objectives of the discipline	<p>The Obstetrics and Gynecology department aim to develop cognitive skills, abilities and attitudes that are crucial for preventive medicine, diagnostic, therapy and recovery procedures. The following premises concur to this specific objective: an upgraded curriculum according the European quality standards, modern teaching and evaluation methods, and the students involvement in research and implementation of current clinical protocols. At the end of the stages, the student should be able to express:</p> <p>COGNITIVE ABILITIES which allow for:</p> <ul style="list-style-type: none"> - proper identification and evaluation of the interventions in pregnancy and delivery; - acquirement of general knowledge necessary for the use of classic and modern fetal and maternal evaluation techniques, that are crucial for a proper understanding of pregnancy physiology and pathology. - interpretation of diagrams and other graphic representations of functional parameters and correlations; - theoretical data integration with practical abilities and further correlation of the ob-gyn medical protocols with information from other fundamental disciplines, within a larger and solid frame of clinical skills; - the clear, rigorous communication of acquired knowledge, general information and specific results; - development and application of work hypotheses; - proper evaluation of hospitalization indications, high-risk pregnancy monitoring and care until birth, at delivery and during puerperium; - targeted anamnestic evaluation, clinic and paraclinical investigations, good performance in

	<p>establishing the positive and differential diagnosis and adequate implementation of ob-gyn pathology protocols.</p> <p>PRACTICAL ABILITIES</p> <ul style="list-style-type: none"> - the ability to develop a medical team, to assign duties, to collaborate, to collaborate efficiently, to interpret the medical data, to implement a proper protocol, to register, communicate and discuss the results within the medical staff; - to establish and sustain the pregnancy diagnosis, based on clinic, paraclinical and ultrasound data; - to elaborate an obstetrical/gynecological patient file; - knowledge of necessary data afferent to pregnancy monitoring and the ability to interpret the findings; - the ability to assign a pregnancy risk; - the capability to establish fetal presentation and position in term pregnancy; - to recognize the physiologic and pathologic aspects of labour; - to perform a clinical exam in pregnant and labouring woman; - to monitor the puerperium; - to establish and sustain with arguments a genital pathology diagnosis; - the expertise to interpret a vaginal smear exam; - the expertise to interpret a cervico-vaginal cytology exam (Pap-test, cyto-hormonal exam); - the expertise to interpret the histopathological results retrieved from genital biopsies / excisions; - the expertise to interpret an ultrasound investigation result; - the ability to recognize and identify the potential life-frightening fetal abnormalities; - the ability to recognize the potential life-frightening maternal conditions during pregnancies; - the capacity to understand the infertility investigation principles and the indications and results of assisted reproductive techniques techniques; - demonstration of the skills necessary to identify risk-factors and prophylaxis interventions in gynecological pathology; - the capability to distinguish and apply modern therapeutic management for gynecological emergencies; - knowledge of early interventions for the prevention and proper treatment of genital conditions and their complications; - the ability to apply diagnosis and therapy protocols to reduce the complications and to preserve the reproductive potential in gynecological interventions; - the ability to identify preventive medicine interventions and demonstration of proper knowledge in the field of onco-gynecology; - recognition of adequate indications for classical and endoscopic / laparoscopic surgical interventions. <p>ATTITUDES</p> <ul style="list-style-type: none"> - opening to acquire and improve moral and ethical standards, formation of professional and civic attitudes that allow for correctness, honesty, collaboration and understanding for human sufferance, availability for human interaction, assistance and community development; - understanding and respect for professional ethical principles; - recognition of an emerging problem and the identification of proper solutions to deal the respective settings; - respect for diversity and multiculturalism; - demonstration of team-work abilities; - well communicated written or verbal of the needs, work flow, results and communication within the medical team; - implication in voluntary actions, knowledge of essential community issues; - opening for continuous learning and education throughout the entire career; - recognition of the individual study necessity as the base for autonomy and personal development; - optimal and creative use of the self potential in group activities; - proper use of the information technology and communication; - initiative and involvement in educative and scientific activities of the discipline.
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8. CONTENTS

8.1 Course (content units)	Hours
<i>Obstetrics</i>	
Theme 1: Clinical anatomy and physiology of the genitalia.	2
Theme 2: Normal pregnancy and prenatal care.	2
Theme 3: Prenatal diagnosis. Antepartum fetal monitoring.	2
Theme 4: Abortion and miscarriage. Trophoblastic gestational disease.	2

Theme 5: Ectopic pregnancy.	2
Theme 6: Antepartum obstetrical haemorrhage – second half of the pregnancy.	2
Theme 7: Normal delivery mechanism. Intrapartum fetal monitoring.	2
Theme 8: Delivery assistance in cephalic presentation. Dystocia related to fetal presentation.	2
Theme 9: Cesarean delivery. Vaginal birth after caesarean section.	2
Theme 10: Pregnancy hypertensive disorders. Gestational diabetes.	2
Theme 11: Preterm birth. Prolonged pregnancy.	2
Theme 12: Fetal anemia. Twin pregnancy.	2
Theme 13: Pathology of fetal adnexa. Intrauterine growth restriction. Fetal demise.	2
Theme 14: Normal and pathological puerperium.	2
Theme 15: Major emergencies in obstetrics.	2
Theme 16: The new-born care.	2
<i>Gynecology</i>	
Theme 1: Congenital malformations of the uterus, vagina and vulva.	2
Theme 2: Imaging in gynecology.	2
Theme 3: Main syndromes in gynecology.	2
Theme 4: Ectopic pregnancy.	2
Theme 5: Cervicovaginal infections. Pelvic inflammatory disease.	2
Theme 6: Tumoral benign and malign pathology of the uterine cervix, vagina and vulva. Cervical dysplasia and cervical cancer prevention.	2
Theme 7: Uterine tumors. Endometriosis.	2
Theme 8: Ovarian and tubal pathology.	2
Theme 9: Breast pathology (inflammatory, dysplastic and tumoral).	2
Theme 10: Pelvic floor disorders.	2
Theme 11: Menopause.	2
Theme 12: Infertility. Contraception and sterilisation.	2
BIBLIOGRAPHY / TEACHING MATERIAL	
<ol style="list-style-type: none"> Obstetrica- Stefania Tudorache, Nicolae Cernea, Dominic Gabriel Ilescu, Costin Berceanu, Editura Medicala Universitara, 2022 Ginecologie- Stefania Tudorache, Nicolae Cernea, Dominic Gabriel Ilescu, Costin Berceanu, Editura Medicala Universitara, 2022 Sinopsis de Medicină, Ediția a 5-a. Editori Latha Ganti, Javier Rosario, David C. Lebowitz, Ariel E. Vera., Wolters Kluwer. Editorii Ediției în limba română: C.A. Mărginean, C. Poiană, Editura Hipocrate. Williams Obstetrică, Tratat F. Cunningham, Kenneth Leveno, Steven Bloom, Catherine Spong, Jodi Jodi Dashe, sub coordonarea Radu Vlădăreanu. Editura Hipocrate, 2016; Williams Ginecologie, Tratat Hoffman, Schorge, Schaffer, Halvorson, Bradshaw, Cunnigham, Ediția a doua, McGrawHill. Coordonatorul ediției în limba română Radu Vlădăreanu, Editura Hipocrate, 2015. Cursul predat. Ecografia în Obstetrică – ATLAS - Ștefania Tudorache, Dominic Gabriel Ilescu, Cristiana Simionescu, Nicolae Cernea,. Editura Medicală Universitară, Craiova, 2016, nr. pag. 248, ISBN 978-973-106-278-5 Ecografia în Ginecologie - Ștefania Tudorache, Dominic Gabriel Ilescu, Ciprian Laurențiu Pătru, Maria Șorop-Florea, Roxana Drăgușin, Lucian Zorilă, Cristian Marinaș, Florentina Tănase, Liliana Novac, Nicolae Cernea, Editura Medicală Universitară, 2016, nr. pag. 258, ISBN 978-973-106-279-2 Esențialul în Colposcopie - Dominic Gabriel Ilescu, Ștefania Tudorache, (sub redacția), Florin Ion Cornițescu, Florentina Tanase, Răzvan Grigoraș Căpitănescu, Alexandru Comanescu, Iuliana Ceaușu, Claudiu Marginean, Liliana Novac, Nicolae Cernea, Raluca Ciurea, Simionescu Cristiana.. Editura Medicală universitară, 2016, ISBN: 978-973-106-277-8 	
8.2 Practical work (topics / themes)	
Theme 1: Patient's medical file in gynecology and obstetrics. Clinical gynecological and obstetrical examination. The partogram.	6
Theme 2: Neonatal medical file. New-born care. APGAR Score.	6
Theme 3: The Birth canal anatomy and pelvimetry. Perineotomy	6
Theme 4: The mechanism of birth and labour management in cephalic occipital presentation.	6
Theme 5: The mechanism of birth and labour management in deflected cephalic presentations.	6
Theme 6: Caesarean section: indications, technique.	6
Theme 7: Diagnosis and interventions in transversal fetal presentation. Versions techniques.	6
Theme 8: The mechanism of birth and labour management in breech presentation.	6
Theme 9: Fetal adnexa: placentation at term, pathologic placental development; amniotic fluid; diagnosis and interventions in cases with rupture of membranes. Umbilical cord – normal characteristics and pathology.	6
Theme 10: Birth monitoring in twin and multiple pregnancy.	6
Theme 11: Diagnosis and interventions during fetal expulsion and placental delivery. Obstetrical shock: diagnosis, treatment, monitoring.	6

Theme 12: Preeclampsia and Eclampsia. Diagnosis, interventions.	6
Theme 13: Preterm birth. Interventions.	6
Theme 14: Fetal distress in labour. Diagnosis and interventions. Intrauterine growth restriction and fetal demise.	6
Theme 15: Prolonged pregnancy – diagnosis, interventions. Induction of labour. Cardiotocography.	6
Theme 16: Forceps. Embriotomy. Vidextraction	6
Theme 17: Perineotomy. Artificial delivery of the placenta. Artificial rupture of membranes.	6
Theme 18: Hemolytic disease of the new-born.	6
Theme 19: Infectious cervico-vaginal investigations, interpretation of a smear sample.	6
Theme 20: Treatment principles for colpitis and vulvo-vaginitis.	6
Theme 21: Cervical cancer screening. Cervical smear test (Pap smear), colposcopy, HPV detection. Interpretation of histopathological exams following cervical biopsy.	6
Theme 22: Interpretation of histopathological exams following endometrial sampling. Ovarian and breast cancer screening.	6
Theme 23: Ultrasound in obstetrics and gynecology: general principles, data interpretations.	6
Theme 24: Imagistic / radiologic investigations in obstetrics and gynecology: hysterosalpingography; CT, MRI; mammography.	6
Theme 25: Hysteroscopy	6
Theme 26: Laparoscopy	6
Theme 27: Amniocentesis, cordocentesis, chorionic villus sampling	6
Theme 28: Uterine dilation and curettage: indications, technique, complications. The use in obstetrics and gynecology.	6

BIBLIOGRAPHY / TEACHING MATERIAL

1. Protocoalele interne și **procedurile operaționale** ale spitalului afiliat UMF Craiova (Spitalul Clinic Județean de Urgență Craiova)
2. Sinopsis de Medicină, Ediția a 5-a. Editori Latha Ganti, Javier Rosario, David C. Lebowitz, Ariel E. Vera., Wolters Kluwer. Editorii Ediției în limba română: C.A. Mărginean, C. Poiană, Editura Hipocrate.
3. Suportul de stagii prezentat (studii de caz, prezentări de cazuri clinice)
4. **Williams Obstetrică**, Tratat F. Cunningham, Kenneth Leveno, Steven Bloom, Catherine Spong, Jodi Jodi Dashe, sub coordonarea Radu Vlădăreanu. Editura Hipocrate, 2016;
5. **Williams Ginecologie**, Tratat Hoffman, Schorge, Halvorson, Bradshaw, Cunnigham, Ediția a doua, McGrawHill. Coordonatorul ediției în limba română Radu Vlădăreanu, Editura Hipocrate, 2015.
6. **Nursing în Obstetrică și Ginecologie** - Dominic Gabriel Iliescu, Ștefania Tudorache, Cornițescu Florin, Ciprian Laurențiu Pătru, Răzvan Grigoraș Căpitănescu, Florentina Tanase, Nicolae Cernea,. Editura Medicală Universitară Craiova, 2016, ISBN 978-973-106-276-1

9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

- The Obstetrics and Gynecology speciality represents a fundamental domain of medicine, compulsory for the student's formation as future doctors.
- Theoretical knowledge, practical abilities and medico-ethical attitudes acquired during this study programme offers the base to understand, diagnose and treat the specific pathology and allows for a proper educational formation with regard to the implementation preventive, diagnostic, therapeutic and recovery protocols.

10. METHODOLOGICAL LANDMARKS

Types of activity	Modern teaching / learning techniques; lectures; interactive courses; group applications and brainstorming; problem/solution teaching; project learning; bibliographic electronic and hard-copy sources etc. Non-face-to-face teaching of theoretical and practical aspects of the discipline are provided when traditional teaching cannot take place due to epidemiologic context. In special situations (alert state, emergency state, other situations which limit physical interaction), the discipline's activity can be sustained online, using platforms approved by the faculty / university. The online education process will be tailored accordingly to ensure fulfilment of all objectives presented in the discipline's educational programme.
Courses	The following teaching methods are combined: lectures, debates, problem-based learning.
Practical work	The following teaching methods are combined: practical demonstrations, study cases, projects.
Individual study	Indicated and supported before each course and practical activities.

11. RECOVERY PROGRAM

Absences recoveries	No. absences that can be recovered	Location of deployment	Period	In charge	Scheduling of topics

	3	Obstetrics and Gynecology Clinic	Same week with another group of students, assigned to the same educational personnel; -last 2 weeks of the semester for justified absences.	Educational personnel assigned to the respective group of students	2 themes/day in sequential order
Schedule consultations programme / Students' Scientific Program	2 hours / week / teacher	Obstetrics and Gynecology Clinic	One session/2 weeks	Entire educational personnel	The theme of the respective week
Program for students poorly trained	2 hours / week	Obstetrics and Gynecology Clinic	One session/2 weeks	Entire educational personnel	The theme of the respective weeks

12. ASSESSMENT

Activity	Types of assessment	Methods of evaluation	Percentage from final grade
Lecture	Formative assessment through essays, projects and surveys during the semester Summative assessment during the exam	Multiple Choice Questions Answering System (MCQ)/MCQ	60%
Practical work	Formative assessment through Multiple Choice Questions Answering System (MCQ) or/and descriptive, projects, survey during the semester. Periodic assessment during the semester Summative assessment during the exam	Oral exam.	30%
Periodic assessment			5%
Assessment of individual activity			5%
Minimum performance standard	At least 50% for each component of the evaluation		

13. GUIDANCE AND COUNSELLING PROGRAMS

Professional guidance and counselling programs (2 hours/monthly)

Scheduling the hours	Location	In charge
Every last Friday of the month	Lecture room 7 th floor, Ob-Gyn Department	Lecture holders

Endorsement date in the Department: 04.09.2022

Department Director,
Prof. Nicolae CERNEA

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline Holder,
Assoc. Prof. Ștefania TUDORACHE