


<b>Medical Faculty University of Nis</b>	<b>STUDY PROGRAM: INTEGRATED ACADEMIC STUDIES MEDICINE <i>Accreditation 2018</i></b>	
<b>Name of the subject: Professional practice 3</b>		
<b>Responsible teachers:</b> Prof dr Zlatko Đurić, Prof dr Jasmina Popovic, Prof dr Miroslav Stojanović		
<b>Subject status::</b>	mandatory	
<b>Semester:</b> after X	<b>Study year:</b> after V year	
<b>Number ECTS:</b> 5	<b>Subject code:</b> M-V-45	
<b>Aim:</b>		
The aim of practical teaching, formulated as professional practice, is for students to perfect: <ul style="list-style-type: none"> <li>▪ the skill of taking the relevant anamnestic data</li> <li>▪ demonstration of clinical skills acquired during practical classes of Pediatrics, Gynecology and Obstetrics u Surgery 2</li> <li>▪ knowledge of modalities of diagnostic and therapeutic procedures in medical practice</li> </ul>		
<b>Outcomes: (knowledge, skills, attitudes)</b>		
After completing professional practice, students will gain greater experience in the skills of anamnesis, clinical examination of patients, establishing differential diagnosis and experience in the optimal choice of therapeutic procedures.		
<b>Number of active teaching classes: 95</b>		
<b>Lectures:</b> 0	<b>Practical classes:</b> 240	
<b>Subject content</b>		
Professional practice includes the most important diagnostic and therapeutic principles and procedures in the field of Pediatrics, Gynecology and Surgery.		
<b>Active teaching:</b>		
<b>1. Practical classes</b>		<b>Number of classes</b>
<b>Pediatrics</b>		
1.	General impression of the patient Mental state assessment Habitus, posture, age and development assessment Sexual maturity assessment Breathing assessment Pulse palpation Blood pressure measurement CVP results (jugular vein) Body height and weight measurement, BMI calculation, nutrition assessment, growth and development assessment Skin inspection and palpation Mucous membrane inspection Lymph nodes palpation	8
2.	Head/neck examination Eyes, nose, ears, mouth and throat inspection Salivary glands inspection Throat swab culture Thyroid gland palpation Trachea palpation	4
3.	Chest examination Inspection at rest Inspection while breathing Palpation chest mobility assessment Pectoral fremitus assessment Heart apex palpation Percussion of lungs, base of lungs and heart Lung auscultation Heart auscultation	20

4.	<p>Stomach examination</p> <p>Inspection</p> <p>Auscultation</p> <p>Percussion (liver)</p> <p>Palpation (abdominal wall, intestine, liver, spleen, aorta, wall tension)</p> <p>Causing abdominal pain in rebound pain (rebound phenomenon)</p> <p>Renal succussion</p>	10
5.	<p>Examination of the female genital organs</p> <p>Inspection of the vulva and perineum</p>	2
6.	<p>Examination of the male genital organs</p> <p>Inspection of the penis</p> <p>Inspection and palpation of the scrotum</p>	2
7.	<p>Examination of the skeletal system</p> <p>Inspection of skin, nails and muscle tone</p> <p>Inspection of joints</p> <p>Assessment of capillary pulse</p> <p>Assessment of capillary filling</p> <p>Palpation of arterial pulsations</p> <p>Palpation of skin, tendons and joints</p> <p>Assessment of joint mobility</p>	4
8.	<p>Basic orientational neurological examination</p> <p>State of consciousness and orientation in time and space</p> <p>Cranial nerves</p> <p>Motor system assessment</p> <p>Muscle tone</p> <p>Deep tendon reflexes (patellar, Achilles, biceps)</p> <p>Neonatal automatisms (Moreau, Galant, Bauer, Magnus, Babinski, grasping, sucking... )</p>	4
9.	<p>Diagnostic procedures</p> <p>Venipuncture</p> <p>Scintigraphic examinations</p> <p>Ultrasound examinations</p> <p>Stomach endoscopy</p> <p>Colonoscopy</p> <p>Lumbar ascitic puncture</p> <p>Pleural puncture</p> <p>Bone marrow puncture</p> <p>Electrocardiography</p> <p>Doppler U3</p> <p>Holter monitoring</p> <p>Automatic measurement of blood pressure</p> <p>Echocardiography</p> <p>Pulmonary function tests/spirometry</p> <p>Provocation tests - with methacholine or allergens</p> <p>Skin allergy tests</p>	10
10.	<p>Therapeutic procedures</p> <p>Start of resuscitation</p> <p>Aspiration of the upper airways</p> <p>Mouth-to-mouth resuscitation</p> <p>External heart massage</p> <p>Venous cannulation</p> <p>Subcutaneous and intramuscular injection</p> <p>Insulin administration</p> <p>Preparation and testing blood for transfusion</p> <p>Nasogastric tube placement</p> <p>Urinary catheter placement</p> <p>Umbilical wound treatment</p> <p>Phototherapy</p> <p>Exsanguination transfusion</p> <p>Child care and upbringing counseling</p> <p>Breastfeeding counselling</p> <p>Diet prescription</p> <p>Education of parents and patients with chronic diseases</p> <p>Quality of life assessment</p>	16
	<b>Total classes in Pediatrics</b>	<b>80</b>

<b>Gynecology and Obstetrics</b>		
11.	<p>Clinical reception Individual anamnesis (gynecological and obstetrical) Training in the recognition of concepts from the anatomy of the external genital organs. Conducting speculum and bimanual vaginal examination, possibly even rectal.</p>	8
12.	<p>Colposcopy clinic Demonstration and practical taking of a vaginal swab for bacteriological, cytological (Papanicolau), and cytohormonal examination. Demonstration of colposcopic examination with normal and pathological colposcopic findings.</p>	4
13.	<p>Ultrasound clinic Observation of ultrasound examinations of gynecological and obstetric patients and ultrasound interventions.</p>	4
14.	<p>Outpatient interventions in gynecology Referral and preparation of patients for minor gynecological interventions. Preparation of the gynecologist - surgeon, preparation and familiarization with the instrumentation for minor (outpatient) gynecological interventions and pregnancy termination. Demonstration of taking a sample-biopsy (on the external genital organs and the cervix). Demonstration of exploratory curettage. Demonstration of patient preparation for pregnancy termination (Abortus artificialis). Demonstration of dilatation of the cervical canal and instrumental evacuation of the uterine cavity contents.</p>	8
15.	<p>Daily hospital Performing cardiotocography and interpreting normal and pathological CTG records. Demonstration of performance of the oxytocin test and interpretation of findings. Treatment of the operative wound (after Caesarean section and episiotomy).</p>	8
16.	<p>Operating block Demonstration and treatment of the operative wound. Presence in the operating room, getting acquainted with the work in the operating room and observing the operation. If at all possible, assisting during the operation. Observation of the performance of endoscopic procedures in gynecology (laparoscopy, hysteroscopy).</p>	16
17.	<p>Maternity hospital Obstetric history taking. Preparation of the midwife and obstetrician for the examination. External examination of a pregnant woman in labor: examination (large pelvis), observation-inspectio, feeling-palpatio, listening-auscultatio, taking pelvic measurements. Internal examination of a pregnant woman. Obstetric anamnesis. Attending and participating in the childbirth management - normal and pathological: management of the first period of labor - the period of dilatation (Phasis dilatationis). Examination of a woman in labor in the dilation phase. Management of the second birth period - the period of expulsion (Phasis expulsionis). Observing and understanding the mechanism of expulsion. Management of the third stage of labor (Phasis placentalis). Expulsion of the placenta (Crede procedure), examination of the placenta and sheath. Execution under the control of an assistant. Management of the fourth stage of labor (Phasis homeostasis). Monitoring of the vital parameters of the woman in labor by the student. Getting acquainted with the procedure involving the newborn immediately after delivery (taking care of the newborn in the delivery room, resuscitation, accompanying documentation for the newborn).</p>	24

	Observing the preparation and performance of obstetric interventions performed in the delivery room.	
18.	Midwife obstetrics department Examination, monitoring of uterine involution and lactation establishment, breast examination, episiotomy treatment in the first days after childbirth. Solving lactostasis. Monitoring of the immediate postoperative course after Caesarean section. Wound treatment.	8
	<b>Total classes for Gynecology and Obstetrics:</b>	<b>80</b>
Surgery 1		
19.	Surgical propaedeutics	3
20.	Interpretation of native X-ray of lungs, abdomen, skull, bones, breasts...	2
21.	Interpretation of U3 and Doppler U3 findings	2
22.	CT and MR interpretation	2
23.	Interpretation of contrast radiological analyzes (passage GD and TC, irrigography, PTC, ERCP, IVU, myelography, angio)	2
24.	Interpretation of endoscopic findings (proximal and distal GIT endoscopy, bronchoscopy, cystoscopy)	2
25.	<b>BASIC SURGICAL THERAPEUTIC PROCEDURES</b>	2
26.	Practical application of sterilization and preparation of instruments	2
27.	Work organization and behavior in the OP block	2
28.	Surgical disinfection of hands, putting on sterile clothes, putting on gloves	2
29.	Preparation of the operative field (shaving, washing, isolation)	2
30.	Operative field disinfection	2
31.	Surgical instruments	2
32.	Basics of surgical techniques (surgical knot, suture) - model and the patient	2
33.	Local anesthesia	2
34.	Surgical wound treatment	3
35.	Infected wound procedure	2
36.	Abscess incision and drainage	3
37.	Temporary homeostasis	2
38.	Dressing technique	2
39.	Immobilization technique	2
40.	Antibiotic, antirabies and antitet. protection	2
41.	Postoperative wound care	3
42.	Removing sutures from the operative wound	2
43.	Bedsore prevention and therapy	2
44.	Extirpation of foreign bodies and tick excision	2
45.	Blood samples for lab tests	2
46.	Administering a subcutaneous injection	2
47.	Administering an intramuscular injection	2
48.	Intravenous cannulation	2
49.	Determination of the rate of infusion and infusomat programming	2
50.	Bladder catheterization	2
51.	Nasogastric tube placement	2
52.	Enema preparation and instillation	2
53.	Pericardial puncture and drainage	2
54.	Chest puncture and drainage	2
55.	Abdominal puncture and drainage	2
56.	Recognition and treatment of acute limb ischemia	2
57.	Recognition and treatment of DVT and superficial thrombophlebitis	2
	<b>Total classes for Surgery:</b>	<b>80</b>
	<b>Total classes overall:</b>	<b>240</b>

<b>Recommended literature:</b>
1. П. Миладиновић: Практикум из гинекологије за студенте медицине и лекаре на специјализацији, Медицински факултет Ниш, 1995.
2. Ђорђевић Н. Принципи и методе постављања дијагнозе у општој хирургији. Медикус Максимус Ниш, 1999.
<b>Teaching methods:</b>
<ul style="list-style-type: none"> <li>▪ Independent performance of clinical skills</li> <li>▪ Demonstrating clinical skills</li> <li>▪ Consultations</li> <li>▪ During summer professional practice, students attend practical classes under the close supervision of the specialized doctors.</li> </ul>
<b>Subjects in which the student should complete all the pre-examination obligations provided by the program as a condition for professional practice:</b>
<ul style="list-style-type: none"> <li>▪ Pediatrics</li> <li>▪ Gynecology and Obstetrics</li> <li>▪ Surgery 2</li> </ul>
<b>Knowledge assessment: (maximum number of points 100)</b>
The teacher responsible for professional practice keeps records of regular attendance and student activities during professional practice. Upon completion of professional practice, the student does not receive a grade, but is obliged to complete professional practice in order to achieve the expected number of ECTS points. The responsible teacher enters the data about the completed practice in the student's index book.