

MED 5011 - Clerkship II

Course Name	Code	Semester	Type of Course	Theory (hours)	Group Work (hours)	ECTS
Clerkship II	MED 5011	IX	Mandatory	0	96	4
Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program "Medicine"					
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Educational course format	Group work					
Educational course Loading	<p>Total: 120 hours Contact hours: 100 h, that includes:</p> <ol style="list-style-type: none"> 1. Group work - 96 h 2. Midterm exam -2 h 3. Final exam -2 h <p>Independent work – 20 h</p>					
Prerequisites	MED 4002, MED 4004, MED 4008					
The purpose (s) of tutorial course/modules	To provide the medical students with an opportunity to develop and demonstrate the knowledge of basic clinical skills and taking care of a patient; laboratory instruction and practice in basic clinical skills. Once the skill has been learned in the lab, students may perform it under the supervision of the instructor in the clinical setting.					
Teaching and learning methods	<p>Practical skills - on the medical clinic base in the area of Clinical rounds up: the active participation in the processes of patient's examination, objective research, discussion and interpretation of the results of clinical-laboratory and instrumental investigations, the attendance during different medical procedures and manipulations;</p> <p>Duty on the clinic base;</p> <p>Analyses and interpretation of medical procedures and manipulations for different cases;</p>					

<p>Assessment criteria</p>	<p>Maximum score- 100:</p> <ol style="list-style-type: none"> 1. Midterm assessment -40: <ol style="list-style-type: none"> 1.1. Duty in clinic -20 scores (2 duties X 10 scores for each); 1.2. Activity -Practical skills (on the clinical base) – 20 scores: 2. Midterms exam - 20 scores <p>Clinical skills Assessment – 20 scores max.</p> <ul style="list-style-type: none"> • Accordance of theoretical knowledge and clinical skills -2 scores; • Manipulation exact consequence – 2 scores; • Clinical results interpretation skills - 2 scores; • Patients and doctors safety – 2 scores; • Communication skills with patients – 2 scores; • Ethical and deontology principles – 2 score; • Analytical thinking about diagnose – 2 score; • Proper orientation it terms of time-limit – 2 scores; • Emergency situation manage skills – 2 scores; • Patients’ agreement signing and preparation for procedure – 2 scores <p>2. Midterm Exam – 20 scores (combined form, medical case analysis, medical history taking) Test -20 question, 0,5 score for each – max. 10; medical case analysis – 5 scores; medical history taking – 5 scores; total: 20)</p> <p>Minimal scores of midterm assessment (for final exam) – is 11.</p> <ol style="list-style-type: none"> 3. Final Exam -40 scores <p>Final exam will be held on the base of “Clinical Skills development center”.</p> <p>The final exam would accounted as passed in case of maximum 70% or more ($40 \times 70 / 100 = 28$ scores).</p> <p>Credit will be given to the student if he has collected at minimum 51 scores out of 100.</p> <p>Student’s assessment has to be done in the following way:</p> <p>Positive rate:</p> <ul style="list-style-type: none"> • (A) Excellent- 91 or more scores; • (B) Very Good- 81-90 scores; • (C) Good- 71-80 scores; • (D) Satisfactory- 61-70 scores; • (E) Enough- 51-60 scores; <p>Negative rate:</p> <ul style="list-style-type: none"> • (FX) Failure - 41-50 scores, 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 scores or less, which means that the student's diligence is not sufficient and student has to learn the subject all over again. <p>Student can pass the additional exam during the same semester.</p> <p>The time interval between the final and the additional exams should be not less than 10 days.</p>
<p>The basic literature</p>	<ol style="list-style-type: none"> 1. Essential Practice of Surgery. Basic Science and Clinical Evidence. Edited by: Jeffrey A. Morton, R Randal Bollinger, Alfred E.Chang, etc. Springer. 2002. 2. R.M.Kirk. General Surgical Operations. Churchill Livingstone Elsevier. V ed. 2005.

The auxiliary literature	<ol style="list-style-type: none"> 3. A. Perry and P. Potter. Clinical Nursing Skills and Techniques, Elsevier Science/Mosby, Inc. Latest edition (7th Edition). 2009; 4. G. Altman, P. Buchsel, V. Coxon. Delmar's Fundamental & Advanced Nursing Skills. Delmar, Thomson Learning. II edition, 2003 5. G. Altman. Fundamental and Advanced Nursing Skills. Delmar, Cengage Learning; III Edition, 2009 6. J. Rhoads, B. Meeker. Davis's Guide to Clinical Nursing Skills. E.A. Davis Company, Philadelphia. I Edition, 2007 7. P. Lynn. Taylor's Clinical Nursing Skills: A Nursing Process Approach. 3rd Edition, 2010 8. S. Smith, D. Duell, B. Martin. Clinical Nursing Skills: Basic to Advanced Skills; VII Edition, 2008
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The tutorial/training course content

№	Subjects	Work in group (hour)
1	Special procedures: ECG, EEG, CT, MRI, PET, biopsy, endoscopy, arteriography etc.	6
2	<u>Vital Signs</u> – Assessing body temperature. Assessing heart rate via palpation of peripheral pulse and auscultation of the apical pulse. Assessing and counting respiration. Assessing brachial artery blood pressure. Measuring intake and output.	6
3	<u>Health assessment</u> – Performing a general survey. Using a bed scale. Assessing the skin, hair and nails. Assessing the head and neck. Assessing the thorax and lungs. Assessing the cardiovascular system. Assessing the abdomen. Assessing the neurologic, musculoskeletal, and peripheral vascular systems.	6
4	<u>Safety and Infection Control</u> – Handwashing. Donning and removing clean and contaminated gowns and gloves. Donning a cap and mask. Removing contaminated items. Applying sterile gloves via the open and closed methods. Emergency airway management. Administering cardiopulmonary resuscitation. Performing the Heimlich maneuver. Responding to accidental Poisoning.	6
5	<u>Skin Integrity and Wound care</u> – Bandaging. Applying a dry (moist, wet) and/or transparent dressing. Applying a pressure bandage. Irrigating, packing, cleaning and dressing a wound. Managing irritated peristomal skin.	6
6	<u>Medications and their Administration</u> – Administering oral, sublingual and buccal medications. Administering medications via a gastric tube. Administering eye and ear medications (drops and ointments). Administering skin/topical, nasal, rectal, vaginal, nebulized medications.	6
	Midterm	6
7	<u>Medications and their Administration</u> – Administering an intradermal, subcutaneous, intramuscular injections. Administering medication via Z-track injection. Withdrawing medication from a vial. Withdrawing medication from an ampule. Mixing medication from	6

	two vials into one syringe.	
8	<u>Medications and their Administration</u> – Preparing an IV solution. Adding medications to an IV solution. Administering medications via secondary administrations sets (Piggyback). Administering medications via IV bolus, IV push, cartridge system or volume-control sets. Principals of epidural and general analgesia.	2
	<u>Midterm exam</u>	6
9	<u>Nutrition and Elimination</u> – Inserting, maintaining and removing a nasogastric tube. Assessing placement of a large-bore and a small-bore feeding tubes. Feeding and medication via a gastrostomy tube. Inserting, maintaining and removing gastrointestinal suction devices. Applying a condom catheter.	6
10	<u>Nutrition and Elimination</u> – Inserting, irrigating, removing and routine care of an indwelling urethral catheters in men and women. Obtaining a residual urine specimen from an indwelling catheter. Irrigating the bladder using a closed-system catheter. Administering peritoneal dialysis and an enema. Inserting a rectal tube. Irrigating and cleaning a stoma.	6
11	<u>Oxygenation (Ventilation)</u> – Principals of oxygen therapy. Incentive spirometry, intermittent and continuous positive airway pressure ventilation. Managing mechanical ventilation. Ventilating the client with Ambu manual ventilator. Performing endotracheal tube and tracheostomy care.	6
12	<u>Oxygenation (Airway suctioning)</u> – Inserting an oral or nasal airway. Inserting the pharyngeal airway. Performing oropharyngeal (Yankauer) suctioning. Performing nasopharyngeal and nasotracheal suctioning. Performing endotracheal or tracheostomy tube suctioning. Pulse Oximetry. Measuring peak expiratory flow rates. Maintaining mechanical ventilation.	6
13	<u>Cardiovascular Care</u> – Performing venipuncture (blood drawing). Inserting a butterfly needle. Preparing the IV bag and tubing. Setting the IV flow rate. Assessing and maintaining an IV insertion site. Changing the IV solution. Discontinuing the IV and changing to a heparin lock. Administering a blood transfusion. Assessing and responding to transfusion reactions.	6
14	<u>Cardiovascular Care</u> – Assisting with the insertion and removing of a central venous catheter. Changing the central venous dressing and tubing. Maintaining the central venous catheter. Measuring central venous pressure. Drawing blood from the central venous catheter. Infusion total parenteral nutrition and fat emulsion through a central venous catheter. Hemodialysis site care. Using an implantable venous access device. Obtaining an arterial blood gas specimen. Assisting with the insertion and maintenance of an epidural catheter.	6
15	<u>Special procedures</u> – Assisting with EKG, MRI, CT, PET, liver biopsy, thoracocentesis, abdominal paracentesis, bone marrow biopsy/aspiration; lumbar puncture; amniocentesis, bronchoscopy, gastrointestinal endoscopy, proctosigmoidoscopy, arteriography.	6
16	<u>Specimen collection</u> – I. Collecting blood samples: a) performing venipuncture; b) Obtaining a blood glucose level by finger stick; c) Obtaining a specimen for arterial blood gas analyses. II. Collecting urine samples: a) Collecting a midstream urine specimen; b) Collecting a timed (24-	2

	hour) urine specimen; c) Collecting a sterile urine specimen from an indwelling catheter; d) Measuring specific gravity of urine. III. Collecting other specimens: a) Collecting a nose or throat specimen for culture; b) Collecting a sputum specimen; c) Obtaining a wound drainage specimen.	
	Final Exam	2

Learning Outcomes

Criteria	Competences
Knowledge and understanding	<p>Student is able to demonstrate knowledge of purpose, procedure, and rationale of varied health assessments and related nursing interventions. Student has deep and systematic knowledge about;</p> <ul style="list-style-type: none"> • physical examination of patient , Vital signs and health assessment; • medications and their administration; • oxygenation and other special procedures: ECG, EEG, CT, MRI, PET, biopsy, endoscopy, arteriography etc., • approaches to cardiovascular care.
Applying knowledge	<p>Student is able to apply knowledge of purpose, procedure, and rationale of varied health assessments and related nursing interventions. Student develops the following skills:</p> <ul style="list-style-type: none"> • Asses the vital signs of patient; • Health assessment; • Safety and Infection Control; • Skin Integrity and Wound care; • Medications and their Administration; • Nutrition and Elimination; • Oxygenation (Airway suctioning) • Cardiovascular Care • Special procedures ; • Specimen collection
Making Judgment (Analysis and Synthesis)	<p>Student is able to collect and interpret properly the anamnesis data of patients and make the valid conclusions.</p> <p>On the base of the theoretical and practical knowledge the scientific thinking and logical reasoning skills has to be formed to allow the student working out the appropriate strategy in the concrete academic and clinical situation.</p>
Communication Skills	<p>The student has elaborated the ability of communication with the patient and his/her relatives, will be able to give explanations about the disease, to discuss the plan of treatment, to talk about complications, to confirm the necessity of the participation in disease management, to protect the rights of patient.</p> <p>He/she will be able to talk with the colleagues, to show his/her ideas and to define his/her position. In the process of work at the clinic the student will keep the principles of subordination, will have the experience of group work, will be able to allocate time, to define the priorities in his/her activities, will be responsible for the performed and to estimate it</p>

	objectively and critically. Student can working in group, has watching, listening, summarizing, asking and answering questions abilities, is able to participate in the discussion. During the education process the professional and friendly relationship has to be formed with the older (professors / teachers) and younger (this and other groups students) colleagues, communication with any person regardless of their social, cultural, religious or ethnic affiliation.
Valuable	Responsibility for the work has been done, its objective evaluation and critical view.