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|  | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine Foča | | | | | | | |  | | |
| ***Study program: Nursing*** | | | | | | | |
| I study cycle | | | | | III study year | | |
| **Full subject title** | HEALTH CARE OF SURGICAL PATIENT WITH SURGERY | | | | | | | | | | |
| **Department** | Department of Surgical Disciplines, Faculty of Medicine Foča | | | | | | | | | | |
| **Subject code** | | | | **Subject status** | | | | **Semester** | **ECTS** | | |
| NU-05-1-028-5 | | | | Compulsory | | | | V | 7 | | |
| **Professor/ -s** | Full professor Zoran Radovanović, full professor Vladimir Bančević, full professor Veljko Marić, Владимир Банчевић, full professor Sanja Marić, associate professor Vjeran Saratlić, assosciate profesor Maksim Kovačević, full profesor Milorad Bijelović, associate professor Nenad Lalović , assistant professor Helena Kujundžić Marić | | | | | | | | | | |
| **Associate/ - s** | Seniora assist, Rade Miletić, senior assist. Dalibor Potpara, senior assist. Đorđe Veljović, senior assist. Vanja Starović | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | **Individual student workload (in hours per semester)** | | | | **Coefficient of student workload S** [**1**](#_bookmark0) | | |
| **L** | **E** | | | **SP** | **L** | | **E** | **SP** | **So** | | |
| 2 | 4 | | | 0 | 27 | | 53 | 40 | 0,88 | | |
| total teaching workload (in hours, per semester) 30+60+0=90 | | | | | | | total student workload (in hours, per semester)  27+ 53 + 40=120 | | | | |
| Total subject workload (teaching + student): 90+120= 210 hours per semester | | | | | | | | | | | |
| **Learning outcomes** | Upon completing the course:   1. The student will be introduced to clinical examination methods, diagnostic procedures, preoperative preparation, and treatment; will be familiarized with resuscitation procedures; and will gain knowledge about pathology, surgical diseases, and injuries; 2. To train them to solve specific problems and needs, both in prevention and in treatment, which should be addressed through a team-based, diagnostic, and therapeutic approach.; 3. To prepare and train them to observe and care for all injured and ill individuals, both as part of a team and independently, using the most advanced methods and applying acquired knowledge in order to physically and functionally rehabilitate them for work in the most effective way and reintegrate them back into their jobs as soon as possible. 4. To train them to work in healthcare institutions of various levels and to operate effectively in emergency conditions. | | | | | | | | | | |
| **Preconditions** | No preconditions | | | | | | | | | | |
| **Teaching methods** | Lectures, exercises, seminars, practical work | | | | | | | | | | |
| **Subject content per week** |  | | | | | | | | | | |
|  | **Theoretical teaching program** | | | | | | | | |  |
| 1. | **INTRODUCTORY LECTURES**   Anamnesis, physical examination of patients, laboratory methods, interpretation of laboratory results, endoscopic methods in surgery, ultrasound (ECHO), radiodiagnostics, nursing diagnoses. | | | | | | | 2 |  |

1Coefficient of student workload Sois calculated as follows:

а) for study programs not going thorugh the licensing process: So = (total workload in semester for all the subjects 900 h – total teaching workload L+E in semester for all subjects hrs/ total teaching workload L+E in semester for all subjects hrs = . Consult form content and its explanation..

b) for the study programs going through the licencing process, it is necessary to use form content and its explanation .

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|  |  | 2 | **METHODS OF SURGICAL PROPHYLAXIS AND SURGICAL INFECTIONS**  The importance and essence of asepsis and antisepsis methods. Convenient sterilisation methods. Standard sterilisation methods. Rapid sterilisation methods. Modern technological sterilisation methods. Behaviour in the operating room. Classification, Recognition, Prevention and therapy. Surgical infection and sepsis. Anaerobic infections. Gas gangrene. Phlegmon. Antibiotics in surgery. | 2 |  |
| 3. | **CARDIOPULMONARY RESUSCITATION (CPR)**  General terms and definitions. Cardiopulmonary and cerebral resuscitation, basic life support and advanced life support.  **SHOCK, BLEEDING, AND TRANSFUSION**  History and significance of the term. Pathophysiology, classification, and clinical presentation. Basic guidelines in therapy. Shock and sepsis. Blood components and derivatives. Indications and contraindications for transfusion. The transfusion procedure. Causes, diagnostics, and therapy of bleeding. Hemostasis methods: temporary and permanent. Hemostasis methods: provisional and standard. | 2 |  |
| 4. | **PREOPERATIVE PREPARATION AND POSTOPERATIVE TREATMENT**  Preoperative assessment. Preoperative preparation. ASA score. Methods for predicting surgical outcomes. Intraoperative treatment. Postoperative course. Postoperative therapy. Postoperative complications.  **ANESTHESIA AND ANALGESIA**    Concepts, History of Anesthesia. Types of General Anesthesia. General Inhalation, Intravenous Anesthesia. Intraoperative Monitoring. Local and Regional Anesthesia. Pain, Definition. Pain Management in General. | 2 |  |
| 5. | **ABDOMINAL SURGERY**  Symptomatology, Diagnosis, and Surgical Therapy of Diseases and Injuries of the Esophagus, Stomach, Small and Large Intestines. Nursing Procedures for Diseases of the Above Organs. | 2 |  |
| 6. | **ABDOMINAL SURGERY**    Symptomatology, Diagnosis, and Surgical Therapy of Diseases and Injuries of the Liver, Gallbladder, Bile Ducts, Pancreas, and Spleen. Nursing Procedures for Diseases of the Above Organs. | 2 |  |
| 7. | **ORTHOPAEDICS**  Symptomatology, diagnosis, and surgical therapy of musculoskeletal system diseases | 2 |  |
| 8. | **CARDIOVASCULAR SURGERY**  Symptomatology, Diagnosis, and Treatment of Diseases and Injuries of the Blood and Lymphatic Vessels and the Heart. Extracorporeal Circulation | 2 |  |

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|  |  | 9. | **NEUROSURGERY**  Symptomatology, Diagnosis, and Surgical Treatment of Diseases and Injuries of the CNS and PNS | 2 |  |
| 10. | **PLASTIC SURGERY**  Symptomatology, Diagnosis, and Surgical Therapy of Skin Diseases and Injuries, Principles of Reconstructive and Aesthetic Surgery. | 2 |  |
| 11. | **UROLOGY**  Symptomatology, Diagnosis, and Surgical Therapy of Diseases and Injuries of the Genitourinary Tract. | 2 |  |
| 12. | **THORACIC SURGERY**  Symptomatology, Diagnosis, and Surgical Therapy of Diseases and Injuries of the Thoracic Cage and Lungs. | 2 |  |
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|  | 13. | **ONCOLOGICAL SURGERY**  Etiopathogenesis, classification, and staging of malignant diseases; treatment possibilities, principles, and modalities in oncological surgery; principles of prevention of malignant diseases. | 2 |  |
| 14. | **PEDIATRIC SURGERY**  Specifics of Pediatric Surgery; symptomatology and diagnosis of diseases and injuries in childhood. | 2 |  |
| 15. | **TRAUMATOLOGY**  Symptomatology, diagnosis, and surgical therapy of locomotor system injuries. Specific conditions for surgical work in mass casualties and emergency situations. Care for the injured: Triage, evacuation, and staged treatment of wounded. Scope and extent of assistance by stages. Medical documentation. Characteristics of mass injuries and types of injuries. | 2 |  |
| **Practical Teaching Program** | | |  |
| 1. | Introductory Exercises: Medical History and Patient Status. | 2 |  |
| Nursing Anamnesis and Patient Assessment | 2 |  |

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|  |  | 2. | Familiarisation with sterilisation methods and working with disinfectants. Introduction to the operating theatre and activities within the operating theatre (demonstration exercises with case presentations) | 2 |  |
| Nursing procedures and practices related to sterilisation and disinfection. Principles of operating room work. (Seminar paper) | 2 |  |
| 3. | Cardiopulmonary resuscitation measure | 2 |  |
| Nursing procedures in cardiopulmonary resuscitation. (Nursing procedures) | 2 |  |
| 4. | Preoperative preparation and postoperative treatment of patients (clinical case presentations, basic principles of work in ICU). | 2 |  |
| The procedure with the patient in the preoperative and postoperative course | 2 |  |
| 5. | Bleeding and Hemostasis. Shock - Prevention and Therapy . | 2 |  |
| Nursing procedures for patients with bleeding and shock (Seminar paper). | 2 |  |
| 6. | Clinical management of a patient with pneumoperitoneum. Recognition and differentiation of key signs of peritoneal irritation  Clinical examination of the inguinal canal. The importance of clinical examination in diagnosing inguinal hernias and anterior abdominal wall hernias (clinical case presentation). Manual reduction of hernias – taxis | 2 |  |
| Nursing procedures for patients with digestive system disorders | 2 |  |
| 7. | Diagnosis of orthopedic diseases. Principles and methods of treatment in orthopedics. Examination and diagnosis of injuries of the upper and lower extremities, pelvis, and spinal column. Bandages, transportation and plaster immobilization. Transportation immobilization of spinal column injuries. Cervical spine injuries. Thoracolumbar spine injuries | 2 |  |
| Nursing procedures and protocols for patients with injuries of the upper and lower extremities, pelvis, and spinal column | 2 |  |

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|  |  | 8. | Basics of clinical examination of the vascular patient. Specificities of the medical history and physical findings. Methods of temporary hemostasis: digital compression, bandage, wound tamponade, Esmarch bandage (clinical case presentations). Medical history and clinical examination of patients with thrombophlebitis and deep vein thrombosis. Basics of treatment for venous ulcers. Application of elastic bandages. | 2 |  |
| Nursing procedures and protocols for patients with arterial and venous system disorders. Nursing procedures for the treatment of extremity ulcers | 2 |  |
| 9. | Craniocephalic injuries. Clinical case presentation with head contusion and concussion. Diagnostic and therapeutic algorithm. Clinical presentation of patients with cervical and lumbar radiculopathy | 2 |  |
| Nursing procedures for patients with injuries of the central and peripheral nervous system. (Seminar paper | 2 |  |
| 10. | Burns. Determining the depth (degree) of the burn. Determining the surface area of the burn (Rule of Nines and Rule of Palm). Preparation for transport. Calculating the required fluids for resuscitation and the distribution of administration. Pressure ulcers. (Clinical case presentation) **Senior Assistant Helena Marić K. MD** | 2 |  |
| Nursing procedures for patients with burns and pressure ulcers | 2 |  |
| 11 | Urological anamnesis and examination. Digital rectal examination. Familiarisation with urological diagnostic procedures: ultrasound, transrectal ultrasound, prostate biopsy. Insertion of urinary catheter. Insertion of cystostomy catheter. Care of patients with urinary catheter and percutaneous nephrostomy catheter. | 2 |  |
| Nursing procedures for patients with urogenital system disorders. Procedures during the insertion of a urinary catheter. | 2 |  |
| 12. | Anamnesis, physical examination of patients with chest diseases. Interpretation of chest radiographs and MSCT findings. Familiarization with the preoperative examination process and postoperative recovery and treatment of thoracic surgical patients. Clinical presentation of patients with pneumothorax. Procedures for thoracic drainage . | 2 |  |
| Nursing procedures for patients with chest diseases and injuries. Procedure for thoracic drainage.  . | 2 |  |
| 13. | The basics of clinical examination and specific aspects of the medical history in patients with breast cancer, as well as the selection of diagnostic procedures (mammography, ultrasound, biopsy). The importance of primary control and screening for breast cancer. | 2 |  |
| Nursing Procedures and Practices for Oncology Patients. (Seminar Paper) | 2 |  |
| 14. | History andpPhysical examination of a child. Emergency situations in pediatric surgery – diagnosis and care measures (emergency surgical outpatientcClinic). WounddDressing, Burn care, Removal of sutures | 2 |  |
| Nursing Procedures and Practices in the Treatment of Pediatric Diseases . | 2 |  |
| 15. | Triage of Patients and Care of the Injured in Mass Casualty Incidents. | 2 |  |
| Nursing Procedures in the Care of Polytraumatized Patients | 2 |  |

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| **Compulsory literature** | | | | |
| **Author/ s** | | **Publication title, Publisher** | **Year** | **Pages (from-to)** |
| Guy de Chauliac | | Chirurgia | 2018. |  |
| **Adittional literature** | | | | |
| Аутор/ и | | **Publication title, Publisher** | **Year** | **Pages (from-to)** |
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| **Student responsibilities, types of student assessment and grading** | **Grading policy** | | **Бодови** | **Проценат** |
| Pre-exam activities | | | |
| colloquium | | 15 | 15% |
| seminar paper | | 10 | 10% |
| lecture/exercise attendance | | 5 | 5% |
| test | | 20 | 20% |
|  | Final exam | | | |
| practical exam | | 10 | 10% |
| final test | | 40 | 40% |
| TOTAL | | 100 | 100 % |
| **Certification Date** | December 2024. | | | |