# EMERGENCY MEDICAL CONDITIONS

## INTEGRATED ACADEMIC STUDIES OF MEDICINE

### SIXTH YEAR OF STUDY

school year 2025/2026.

Subject:

# EMERGENCY MEDICAL CONDITIONS

The course is evaluated with 7 ECTS. There are 13 hours of active classes per week (4 hours of lectures and 9 hours of practice in a small group).

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# COURSE STRUCTURE:

| Module | Name of the module | Week | Lectures weekly | Work in a small group per week | Teacher |
|---|---|---|---|---|---|
| 1. | Internal medicine, Pediatrics | 6 | 4 | 9 | Assoc. Professor Vojislav Ćupurdija |
| 2. | Surgery, ENT, Ophthalmology | 5 | 4 | 9 | Assoc. Professor Vojislav Ćupurdija |
| 3. | Infectious diseases, Neurology, Psychiatry | 4 | 4 | 9 | Assoc. Professor Vojislav Ćupurdija |
| | | | | | Σ60+150=210 |

**ASSESSMENT:** The grade is equivalent to the number of points earned (see tables). The final grade is formed based on the number of points earned through pre-exam activities, grading of seminar papers, and the final exam.

**PRE-EXAM ACTIVITIES**: Each department may, at its own discretion, partially or completely organize practical exercises in the form of "on-call hours", so that the equivalent time is calculated, e.g. 6 hours of practical exercises can be replaced with 6 hours of “on-call” duty. The readiness and education of students for working with patients in solving emergency situations will be assessed during practical exercises/on-call. During the course, each group is required to spend one shift in the Emergency Medical Assistance Department. Through activity during classes, a student can earn 0-1 point per week, up to a maximum of 15 points during the semester.

Students who do not gain more than 50% of points in the pre-exam activities, take the activity during the exam period by answering 2 questions from each of the modules they did not pass.

| MODULE | MAXIMUM POINTS |
|---|---|
| | activity during class |
| 1 | 6 |
| 2 | 5 |
| 3 | 4 |
| Σ | 15 |

**SEMINAR PAPERS:** During the course, students write 3 seminar papers (1 for each teaching module), on topics selected from the list provided by each department. Each seminar paper is graded with 0-5 points, up to a maximum of 15 points during the semester.

| MODULE | MAXIMUM POINTS |
|---|---|
| | seminar papers |
| 1 | 5 |
| 2 | 5 |
| 3 | 5 |
| Σ | 15 |

**FINAL EXAM:** In this way, a student can earn up to 70 points. The student takes a test of 35 questions from the entire course material. If the student does not get more than 50% of the correct answers, he/she has not passed the final exam.

**FINAL EXAM**
**0-70 POINTS**

The test has 35 questions. Each question is worth 2 points.

**The final grade is formed as follows:**

In order to pass the course, a student must earn a minimum of 51 points, pass the pre-exam activities in all modules, complete 3 seminar papers, and pass the final exam (test).

| number of points scored | grade |
|---|---|
| 0 - 50 | 5 |
| 51 - 60 | 6 |
| 61 - 70 | 7 |
| 71 - 80 | 8 |
| 81 - 90 | 9 |
| 91 - 100 | 10 |

**CONSULTATIVE TEACHING:** In agreement with the assistant for a given thematic unit.

# SCHEDULE

**LECTURE**

**WEDNESDAY**

**SMALL HALL (H4)**

**08:00-10:15**

**PRACTICE**

**WEDNESDAY**

**INTERNAL CLINIC**

**10:30-15:00**

**Schedule of lectures, practical classes and tests – academic calendar**

# LITERATURE:

| Module | Name of the Textbook | Authors | Publisher | Available in the Library |
|---|---|---|---|---|
| Internal Medicine | INTERNAL MEDICINE 1 and 2 | Prof. Dr. Dragoljub Manojlović and colleagues | University of Belgrade, Faculty of Medicine | Yes |
| Pediatrics | EMERGENCIES IN PREDIATRIC | Prof. Dr. Jasmina Knežević and colleagues | University of Kragujevac | Yes |
| Neurology | NEUROLOGY<br>BASICS OF NEUROLOGICAL EXAMINATION | Kostić et al | University of Belgrade, Faculty of Medicine | Yes |
| Surgery | SURGERY FOR MEDICAL STUDENTS | Editor Prof. Dr. Živan Maksimović | Faculty of Medicine in Belgrade | Yes |
| Infective diseases | INFECTIVE DISEASES | M. Božić et al. | Faculty of Medical Sciences, Kragujevac | Yes |
| Psychiatry | PSYCHIATRY | S. Đukić Dejanović and associates | | Yes |
| Ophthalmology | OPHTHALMOLOGY | S. Golubović et al | University of Belgrade, Faculty of Medicine | Yes |
| ENT | ENT with maxillofacial surgery | Prof. Dr. Branislav Belic | Faculty of Medical Sciences, Kragujevac | Yes |
| Internal and Surgical Disciplines | EMERGENCIES IN MEDICINE | Mileta Poskurica et al. | University of Kragujevac, Medical | Yes |

All lectures are available on the website of the Faculty of Medical Sciences: www.medf.kg.ac.rs

# PROGRAM:

## FIRST MODULE

**TEACHING UNIT 1**
**(FIRST WEEK):**

**INTERNAL MEDICINE-CARDIOLOGY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Acute cardiac arrest and cardiopulmonary resuscitation<br>• Sudden cardiac death<br>• Acute pulmonary edema<br>• Acute coronary syndrome<br>• Malignant heart rhythm disorders<br>• Acute heart failure<br>• Hypertensive crisis | • Introduction to the basic principles of cardiopulmonary resuscitation<br>• Recognition of malignant heart rhythm disorders on the ECG and therapeutic approach<br>• Visit to the resuscitation room of the Emergency Center and familiarization with the equipment for carrying out cardiopulmonary resuscitation<br>• Diagnostic procedures in acute coronary syndrome<br>• Recognition of ischemia on ECG or monitor<br>• Recognition of the signs of aortic dissection<br>• Adopt the basic therapeutic principles in terms of the use and dosage of antiplatelet, anticoagulant, fibrinolytic and other symptomatic therapy, as well as another modality of care for acute coronary syndrome in the form of percutaneous coronary interventions<br>• Recognize the clinical picture of heart failure and therapeutic approach<br>• Algorithm in the treatment of pulmonary edema |

**TEACHING UNIT 2**

**(SECOND WEEK):**

**INTERNAL MEDICINE-PULMONOLOGY/ALLERGOLOGY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Acute exacerbation of chronic respiratory failure<br>• Hemoptysis<br>• Pulmonary thromboembolism<br>• ARDS<br>• Acute asthma attack<br>• Anaphylactic shock<br>• Angioedema | • Learn about the aggravating factors and clinical manifestations of acute exacerbation of chronic respiratory failure.<br>• Learn how to interpret gas analysis, recognize the symptoms and signs of hypoxemia and hypercapnia.<br>• Principles of oxygen therapy<br>• Therapeutic approach in chronic respiratory failure deterioration<br>• Indications for non-invasive and invasive mechanical ventilation<br>• Basic causes and approach to the patient with hemoptysis<br>• Presentation of a patient with pulmonary embolism<br>• Analysis of tests necessary for correct dosage of anticoagulant drugs<br>• Clinical presentations and therapeutic approach in ARDS<br>• Interpret the chest X-ray<br>• Determine the presence of free fluid in the pleural cavity and perform a pleural puncture<br>• Recognize the signs of pneumothorax |

**TEACHING UNIT 3**
**(THIRD WEEK):**

**INTERNAL MEDICINE/NEPHROLOGY/GASTROENTEROLOGY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Acute renal failure<br>• Differential diagnosis of hematuria<br>• Urgent conditions in electrolyte, fluid and acid-base balance disorders<br>• Conservative approach to gastrointestinal bleeding | • Most important symptoms and signs of acute renal failure<br>• Treatment of patients with acute renal failure<br>• Treatment of patients with nephritic syndrome<br>• Diagnostic algorithm for acute renal failure<br>• Analysis of acute renal failure complications<br>• Monitoring of patients with acute renal failure<br>• Treatment of acute renal failure: treatment of hyperkalemia<br>• Clinical characteristics of acute nephritic syndrome<br>Indications for acute hemodialysis in patients with acute renal failure<br>• Differential diagnosis of acute abdominal pain<br>• Recognize symptoms, signs and complications of ulcer disease<br>• Learn about the emergency conditions of pancreatic disease such as bleeding, rupture, infection in the field of pseudocyst in acute pancreatitis<br>• Recognize clinical manifestations and therapeutic approach in patients with hepatic coma. |

**TEACHING UNIT 4**
**(FOURTH WEEK):**

**INTERNAL MEDICINE-ENDOCRINOLOGY/HEMATOLOGY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Acute complications of diabetes (ketoacidosis, non-ketogenic hyperosmolar coma, hypoglycemia)<br>• Addison's crisis<br>• Pheochromocytoma<br>• Thyrotoxic crisis<br>• Acute hemorrhagic syndrome<br>• Transfusion of blood and blood derivatives - complications<br>• Febrile neutropenia<br>• Hyperviscosity syndrome | • Introduction to the criteria for acute complications of diabetes and the most common causes (most important symptoms and signs of the disease, diagnostic algorithms for additional testing, principles of treatment of acute complications of DM)<br>• Most important symptoms and signs, diagnostic algorithm for examination and the basic principles of treatment of hypocorticism, hypothyroidism and pheochromocytoma<br>• Introduction to basic manifestations of hemorrhagic syndrome<br>• Introduction of the basic diagnostic procedures and therapeutic modalities used in the diagnosis and treatment of hemorrhagic syndromes<br>• Treatment of patients with hemorrhagic syndrome<br>• Introduction to indications, contraindications and adverse reactions during the transfusion of blood and blood derivatives |

**TEACHING UNIT 5**
**(FIFTH WEEK):**

**PEDIATRICS**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Pediatric cardiopulmonary resuscitation<br>• Acute heart rhythm disorder in children<br>• Acute poisoning in children<br>• Acute respiratory failure in children | • Introducing students to the causes of cardiopulmonary arrest in children and the specifics of cardiopulmonary resuscitation<br>• Opening the upper airways and introducing an air-way<br>• Artificial ventilation<br>• Heart massage<br>• Presentation of the most common rhythm disorders in children, ECG monitoring and therapeutic approach<br>• Presentation of the pediatric patient with signs of acute respiratory failure and treatment<br>• Foreign object in the respiratory tract |

**TEACHING UNIT 6**
**(SIXTH WEEK):**

**PEDIATRICS**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Acute gastroenterocolitis in children<br>• Acute asthma exacerbation in children<br>• Hemorrhagic syndrome in children<br>• Acute neurological disorder in children | • Presentation of the most common causes of acute gastroenterocolitis and the principles of rehydration in children<br>• Placement of a nasogastric tube<br>• Presentation and therapeutic approach in acute severe asthma attack<br>• Administration of oxygen treatment - nasal catheter and mask<br>• Placement of pulse oximeter and monitor<br>• Use of a nebulizer<br>• Most common causes of hemorrhagic syndrome and therapeutic approach<br>• Clinical presentation and therapeutical approach to patients with acute neurological disorders in children<br>• Neurological examination of the child and meningeal signs |

# SECOND MODULE

**TEACHING UNIT 7**
**(SEVENTH WEEK):**

**SURGERY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Cardiopulmonary resuscitation<br>• Hypovolemic shock<br>• Balance of water and electrolytes | • Master the knowledge about the distribution of body water in an adult surgical patient and the balance of water in the body<br>• Recognition of basic facts about disorders of water and electrolyte exchange. Interpretation of arterial blood gas analysis.<br>• Recognition of acid-base balance disorders<br>• Level I - basic resuscitation, mastering the skills of airway control, artificial respiration and circulatory support<br>• Demonstration of advanced resuscitation measures. Demonstration of the heart defibrillator. Demonstration of the principle of prolonged resuscitation - assessment of brain functions.<br>• Recognition of shock of different etiology, differential diagnosis.<br>• Definition of disorders of the heart pump function and peripheral circulation<br>• Identifying the factors that cause hypovolemia: loss of blood, water and/or electrolytes. |

**TEACHING UNIT 8**
**(EIGHTH WEEK):**

**SURGERY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Craniocerebral injuries<br>• Chest injuries<br>• Injuries of the genitourinary tract<br>• Renourethral colic | • Classification of craniocerebral injuries<br>• Fractures of the base of the skull<br>• Determining the disturbance of the state of consciousness according to the Glasgow Coma Scale<br>• Examination of a polytraumatized patient with a disturbed state of consciousness and preparation for transport<br>• Diagnostics of craniocerebral injuries<br>• Treatment of the wound and its surroundings in the hairy part of the head<br>• Removal of sutures after treated head injuries<br>• Recognition of the signs of pneumothorax<br>• Diagnostic procedures for abdominal injury<br>• Recognize subcutaneous emphysema<br>• Determination of the presence of free fluid in the pleural cavity<br>• Symptomatology, diagnosis and therapeutic approach in renal colic |

**TEACHING UNIT 9**
**(NINTH WEEK):**

**SURGERY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Injuries of the extremities<br>• Urgent injuries of blood vessels<br>• Acute occlusions of large arteries<br>• Deep vein thrombosis | • Practice with patients, assessment of skeletal integrity, fracture signs, joint range of motion, presence of swelling, effusion, deformity, skin assessment, tendon integrity and neurovascular findings<br>• Interpretation of radiographs in case of limb injuries<br>• Immobilization of the extremities<br>• Hemostasis with a compression bandage<br>• Hemostasis by digital compression<br>• Performing Homans test<br>• Venipuncture |

**TEACHING UNIT 10**
**(TENTH WEEK):**

**SURGERY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Bleeding from the gastrointestinal tract<br>• Acute abdomen<br>• Treatment of multisystem injuries<br>• Abdominal and pelvic injuries<br>• Surgical treatment of the wound<br>• Thermal injuries and burns | • The student acquires knowledge about the etiology of diseases of the stomach and duodenum, clinical presentation, differential diagnosis and treatment modalities for bleeding from the digestive tract.<br>• The student acquires knowledge about the definition of acute abdomen, etiology, and clinical presentation, differential diagnosis and treatment modalities of acute abdomen.<br>• The student acquires knowledge about the management of multisystemic injuries<br>• Determine the existence of free fluid in the abdomen<br>• Determine the existence of peritoneal irritation<br>• Check for signs of ileus<br>• The student acquires knowledge of surgical shaving<br>• Clinical presentation of extensive burns and stages of development<br>• Treatment of burns |

**TEACHING UNIT 11**
**(ELEVENTH WEEK):**

**ENT/OPHTALMOLOGY**

| Lectures 2 hours | Practice 5 hours |
|---|---|
| • Urgent conditions in ENT medicine | • Approach to a patient with a nosebleed<br>• Recognition of otogenic and sinusogenic complications<br>• Procedure for patients with foreign objects of the ear, nose, pharynx and larynx.<br>• Procedure with patients with acute respiratory failure |

**ENT/OPHTALMOLOGY**

| Lectures 2 hours | Practice 5 hours |
|---|---|
| • Urgent conditions in ophthalmology – introduction.<br>• Acute glaucoma attack<br>• Retinal occlusive syndromes<br>• Retinal ablation<br>• Cavernous sinus thrombosis<br>• Endophthalmitis and panophthalmitis<br>• Contusion, perforation, chemical and thermal eye injuries<br>• Urgent neuro-ophthalmological diseases | • Acute glaucoma attack - clinical presentation, how to diagnose and treat retinal occlusive syndromes and retinal ablation<br>• Cavernous sinus thrombosis<br>• Endophthalmitis and panophthalmitis<br>• Contusion, perforation, chemical and thermal injuries of the eye - anamnesis, recognition of the clinical presentation of the injuries, provide first aid in the treatment of eye injuries and adequate urgent therapy |

# THIRD MODULE

**TEACHING UNIT 12**
**(TWELFTH WEEK):**

**INFECTIVE DISEASES**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Sepsis<br>• Infections of the central nervous system<br>• Snake bite. | • Introducing the student to the pathogenetic mechanism of sepsis and septic shock and the principles of empiric antibiotic therapy<br>• Clinical symptoms and clinical signs of meningeal syndrome and the principles of anti-edematous therapy<br>• Principles of lumbar puncture and care of patients with neuroinfection<br>• Acquiring knowledge about the most common poisonous snakes in our region, and getting to know the pathogenesis of local changes and systemic manifestations after the bite of poisonous snakes<br>• Application of antiviperinum serum<br>• Basic principles of desensitization and application of animal serum<br>• Treatment of patients with anaphylactic shock |

**TEACHING UNIT 13**
**(THIRTEENTH WEEK):**

**NEUROLOGY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Coma<br>• Acute stroke<br>• Epileptic status | • Anamnesis (heteroanamnesis) and focused physical examination in an emergency patient<br>• Examination of the patient's state of consciousness<br>• Scales for assessing the depth of coma<br>• Performing neurological examination<br>• Performing meningeal signs examination |

**TEACHING UNIT 14**
**(FOURTEENTH WEEK):**

**NEUROLOGY/PSYCHIATRY**

| Lectures 2 hours | Practice 5 hours |
|---|---|
| • Coma<br>• Acute stroke<br>• Epileptic status | • Recognition of patients with intracerebral hemorrhage<br>• Differential diagnosis and therapy of different types of stroke<br>• Clinical presentation and differential diagnosis in patients with serial epileptic seizures<br>• Treatment of patients with serial epileptic seizures |

**NEUROLOGY/PSYCHIATRY**

| Lectures 2 hours | Practice 5 hours |
|---|---|
| • Most common emergency conditions in psychiatry<br>• State of psychomotor excitement, agitated states in intellectually deficient persons<br>• Emergency conditions in affective disorders | • Introduction to the most common urgent conditions in psychiatry.<br>• Diferentiation of the specificities of clinical presentations and differential diagnostic uncertainties |

**TEACHING UNIT 15**
**(FIFTEENTH WEEK):**

**PSYCHIATRY**

| Lectures 4 hours | Practice 10 hours |
|---|---|
| • Emergency conditions in schizophrenia, delusions and psychosis in general<br>• Stupor like emergency conditions in psychiatry<br>• Emergency conditions within addictive diseases<br>• Acute psychoorganic syndrome<br>• Chronic psychoorganic syndrome<br>• Approach to a violent patient | • Introduction to the specificities in admission of these patients in hospital conditions (voluntary consent, involuntary hospitalization, precautionary measures...)<br>• Recognition of clinical presentation, diagnostics and therapeutic modules of emergency conditions within the framework of addiction. |

# List of seminar paper topics

# Module 1.

**Internal Medicine – Seminar Paper Topics**

1. Acute Heart Failure and Cardiopulmonary Resuscitation
2. Sudden Cardiac Death
3. Acute Pulmonary Edema
4. Acute Coronary Syndrome
5. Malignant Cardiac Arrhythmias
6. Acute Heart Decompensation
7. Hypertensive Crisis
8. Acute Exacerbation of Chronic Respiratory Failure
9. Hemoptysis
10. Pulmonary Thromboembolism
11. Acute Respiratory Distress Syndrome (ARDS)
12. Severe Acute Asthma Attack
13. Anaphylactic Shock
14. Angioedema
15. Acute Kidney Injury
16. Differential Diagnosis of Hematuria
17. Emergency Conditions in Electrolyte, Fluid, and Acid–Base Disorders
18. Differential Diagnosis of Abdominal Pain
19. Conservative Management of Gastrointestinal Bleeding
20. Acute Complications of Diabetes Mellitus (Ketoacidosis, Hyperosmolar Non-ketotic Coma, Hypoglycemia)
21. Addisonian Crisis
22. Pheochromocytoma
23. Thyrotoxic Crisis
24. Acute Hemorrhagic Syndrome
25. Blood Transfusion and Blood Products – Complications
26. Febrile Neutropenia
27. Hyperviscosity Syndrome

**Pediatrics – Seminar Paper Topics**

1. Treatment of Supraventricular Paroxysmal Tachycardia in Children
2. Methods of Pulmonary Resuscitation in Children of Different Ages
3. Clinical Presentation and Acute Management of Paracetamol Poisoning
4. Status Asthmaticus – Clinical Presentation and Therapy
5. Management of Bleeding in Children with von Willebrand Disease
6. Acute Management of a Child with Febrile Convulsions
7. Principles of Parenteral Rehydration in Children
8. Acute Subglottic Laryngitis – Clinical Presentation and Treatment

# Module 2.

**Surgery – Seminar Paper Topics**

1. Modern Approaches to Wound Treatment and Care
2. Breast Cancer – Modern Diagnostics and Treatment
3. Basic Principles of Oncologic Surgery
4. Acute Pancreatitis and Its Complications
5. Synchronous Metastases of Colorectal Cancer
6. Pathogenesis and Evolution of Chronic Pancreatitis
7. Pneumothorax – Symptoms and Treatment
8. Surgical Infections
9. Upper Gastrointestinal Bleeding
10. Factors Influencing Outcomes in Patients with Severe Traumatic Brain Injury
11. Laparoscopic Surgery in the Treatment of Abdominal Diseases
12. The Role of Surgical Intervention in Acute Pancreatitis
13. Trochanteric Fractures – Current Treatment and Complications
14. Prevention of Surgical Site Infections in Orthopedic Surgery
15. Musculoskeletal Traumatology: Diagnosis and Treatment
16. Management of Patients with Lumbar Disc Herniation
17. Acute Abdomen – Symptoms and Treatment
18. Acute Appendicitis – Symptoms and Treatment
19. Cardiopulmonary Resuscitation
20. Thermal Injuries and Burns
21. Chest Trauma
22. Deep Vein Thrombosis
23. Renoureteral Colic
24. Hypovolemic Shock
25. Acute Occlusion of Major Arteries

**Otorhinolaryngology (ENT) – Seminar Paper Topics**

1. Hemorrhage in the ENT Region
2. Acute Respiratory Insufficiency and Tracheotomy
3. Injuries of the ENT Region
4. Foreign Bodies in the Respiratory Tract
5. Foreign Bodies in the Esophagus
6. Complications of Inflammatory Diseases of the Ear, Nose, Pharynx, and Larynx

**Ophthalmology – Seminar Paper Topics**

1. Emergency Conditions in Ophthalmology
2. Acute Glaucoma Attack
3. Retinal Occlusive Syndromes
4. Retinal Detachment
5. Cavernous Sinus Thrombosis
6. Endophthalmitis and Panophthalmitis
7. Contusion, Penetrating, Chemical, and Thermal Eye Injuries
8. Neuro-ophthalmologic Emergencies

# Module 3.

**Infectious Diseases – Seminar Paper Topics**

1. Therapeutic Approach to a Patient with Clinical Presentation of Septic Shock
2. Therapeutic Approach to a Patient with Acute Neuroinfections
3. Management of Patients with Clinical Presentation of Tetanus
4. Management of Patients with Clinical Presentation of Botulism
5. Management of Patients After a Venomous Snake Bite

**Neurology – Seminar Paper Topics**

1. Coma
2. Acute Stroke
3. Status Epilepticus

**Psychiatry – Seminar Paper Topics**

1. Delirious States – Causes, Non-pharmacological and Pharmacological Interventions, Diagnosis and Monitoring
2. Agitated States – Causes, Risk Assessment, Communication, Medication, and Physical Restraint
3. Suicidal Behaviors and Suicide Attempts – Risk Assessment, Observation, Evaluation
4. Common Medical Conditions Mimicking Psychiatric Emergencies
5. What Is Stupor? Causes, Diagnosis, and Emergency Interventions

# LESSON SCHEDULE FOR THE SUBJECT EMERGENCY MEDICAL CONDITIONS

| Module | Week | Type | Method unit name | Lecturer |
|---|---|---|---|---|
| 1 | 1 | Lecture | Acute cardiac arrest and cardiopulmonary resuscitation. Sudden cardiac death. Acute pulmonary edema. Acute coronary syndrome. Malignant heart rhythm disorders. Acute heart failure. Hypertensive crisis. | Full Prof. Goran Davidović |
| 1 | 1 | Practice | | Full Prof. Goran Davidovic<br>Asst. Prof. Vladimir Ignjatovic<br>Asst. Prof. Jelena Vuckovic<br>Assoc. Prof. Miodrag Srećkovic |
| 1 | 2 | Lecture | Acute exacerbation of chronic respiratory failure. Hemoptysis. Pulmonary thromboembolism. ARDS. Acute asthma attack. Anaphylactic shock. Angioedema | Assoc. Prof. Vojislav Cupurdija<br>Full Prof. Mirjana Veselinovic |
| 1 | 2 | Practice | | Assoc. Prof. Vojislav Cupurdija<br>Full Prof. Mirjana Veselinovic<br>Assoc. Prof. Miodrag Srećkovic<br>Asst. Prof. Vladimir Ignjatovic |
| 1 | 3 | Lecture | Acute renal failure. Differential diagnosis of hematuria. Urgent conditions in disorders of electrolytes, fluids and acid-base balance. Conservative approach to gastrointestinal bleeding. | Assoc. Prof. Tanja Lazarevic<br>Full Prof. Natasa Zdravkovic |
| 1 | 3 | Practice | | Assoc. Prof. Tanja Lazarevic<br>Teaching Assistant Jelena Zivic<br>Asst. Prof. Tomislav Nikolic<br>Teaching Assistant Anita Ivosevic<br>Asst. Prof. Vladimir Ignjatovic |

# LESSON SCHEDULE FOR THE SUBJECT EMERGENCY MEDICAL CONDITIONS

| Module | Week | Type | Method unit name | Lecturer |
|---|---|---|---|---|
| 1 | 4 | Lecture | Acute complications of diabetes (ketoacidosis, non-ketogenic hyperosmolar coma, hypoglycemia). Addison's crisis. Pheochromocytoma. Thyrotoxic crisis. Acute hemorrhagic syndrome. Transfusion of blood and blood derivatives – complications. Febrile neutropenia. Hyperviscosity syndrome | Asst. Prof. Violeta Mladenovic<br>Full. Prof. Svetlana Djukic |
| 1 | 4 | Practice | | Asst. Prof. Violeta Mladenovic<br>Full. Prof. Svetlana Djukic<br>Asst. Prof. Danijela Jovanovic<br>Asst. Prof. Zeljko Todorovic<br>Teaching Assistant Jelena Zivic |
| 1 | 5 | Lecture | Pediatric cardiopulmonary resuscitation. Acute heart rhythm disorder in children. Acute poisoning in children. Acute respiratory failure in children. | Asst. Prof. Sanja Knezevic<br>Full Prof. Andjelka Stojkovic |
| 1 | 5 | Practice | | Full Prof. Biljana Vuletic<br>Full Prof. Andjelka Stojkovic<br>Asst. Prof. Sanja Knezevic<br>Asst. Prof. Marija Radovanovic |
| 1 | 6 | Lecture | Acute exacerbation of asthma in children. Hemorrhagic syndrome in children. Acute neurological disorder in children. Acute gastroenterocolitis in children. | Full Prof. Andjelka Stojkovic<br>Full Prof. Biljana Vuletic<br>Asst. Prof. Sanja Knezevic<br>Asst. Prof. Marija Radovanovic |

# LESSON SCHEDULE FOR THE SUBJECT EMERGENCY MEDICAL CONDITIONS

| Module | Week | Type | Method unit name | Lecturer |
|---|---|---|---|---|
| 1 | 6 | Practice | | Full Prof. Biljana Vuletic<br>Full Prof. Andjelka Stojkovic<br>Asst. Prof. Sanja Knezevic<br>Asst. Prof. Marija Radovanovic |
| 2 | 7 | Lecture | Cardiopulmonary resuscitation. Hypovolemic shock. Water and electrolyte balance. | Assoc. Prof. Nenad Zornic |
| 2 | 7 | Practice | | Assoc. Prof. Bojan Milosevic<br>Assoc. Prof. Marko Spasic<br>Assoc. Prof. Bojan Stojanovic<br>Asst. Prof. Ivan Radosavljevic<br>Asst. Prof. Nenad Markovic<br>Asst. Prof. Nikola Prodanovic |
| 2 | 8 | Lecture | Bleeding from the gastrointestinal tract. Acute abdomen. Abdominal and pelvic injuries. Management of multisystemic injuries. Surgical care of the wound. Thermal injuries. | Assoc. Prof. Aleksandar Cvetkovic |
| 2 | 8 | Practice | | Assoc. Prof. Bojan Milosevic<br>Assoc. Prof. Marko Spasic<br>Assoc. Prof. Bojan Stojanovic<br>Asst. Prof. Ivan Radosavljevic<br>Asst. Prof. Nenad Markovic<br>Asst. Prof. Nikola Prodanovic |
| 2 | 9 | Lecture | Craniocerebral injuries. Chest injuries. | Assoc. Prof. Vojin Kovacevic<br>Assoc. Prof. Milos Arsenijevic |

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| **2** | **9** | **Practice** | | Assoc. Prof. Bojan Milosevic<br>Assoc. Prof. Marko Spasic<br>Assoc. Prof. Bojan Stojanovic<br>Asst. prof. Ivan Radosavljevic<br>Asst. prof. Nenad Markovic<br>Asst. prof. Nikola Prodanovic |
| **2** | **10** | **Lecture** | Injuries of the extremities. Urgent injuries of blood vessels. Acute occlusions of large arteries. Inflammation of deep veins. | Asst. prof. Nikola Prodanovic<br>Assoc. Prof. Bojan Stojanovic |
| **2** | **10** | **Practice** | | Assoc. Prof. Bojan Milosevic<br>Assoc. Prof. Marko Spasic<br>Assoc. Prof. Bojan Stojanovic<br>Asst. prof. Ivan Radosavljevic<br>Asst. prof. Nenad Markovic<br>Asst. prof. Nikola Prodanovic |
| **2** | **11** | **Lecture** | Urgent conditions in ENT medicine. Bleeding in the ENT region. Respiratory failure and tracheotomy. Injuries of the ENT region and foreign objects. Complications of inflammatory processes in the ear, nose, pharynx and larynx.<br><br>Urgent conditions in ophthalmology - introduction. Acute glaucoma attack. Retinal occlusive syndromes Retinal ablation. Cavernous sinus thrombosis. Endophthalmitis and panophthalmitis. Contusion, perforation, chemical and thermal eye injuries. Urgent neuro-ophthalmological diseases. | Full Prof. Branislav Belic<br><br>Full Prof. M. Janicijevic Petrovic |
| **2** | **11** | **Practice** | | Asst. prof. Andra Jevtovic<br>Dr Nenad Relic<br>Dr Natalija Bozovic<br><br>Full Prof. M. Janicijevic Petrovic<br>Full Prof. Svetlana Jovanovic<br>Full Prof. Suncica Sreckovic<br>Assoc. Prof. Nenad Petrovic<br>Assoc. Prof. Tatjana Sarenac<br>Asst. prof. Dusan Todorovic |
| **3** | **12** | **Lecture** | Sepsis. Infections of the central nervous system. Snake bite. | Assoc. Prof. Biljana Popovska Jovicic |

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| **3** | **12** | **Practice** | | Assoc. Prof. Biljana Popovska Jovicic<br>Teaching Assistant Sara Petrović<br>Dr Nemanja Đorđević |
| **3** | **13** | **Lecture** | Coma. Acute stroke. Epileptic status. | Full Prof. Svetlana Miletic Drakulic<br>Asst. Prof. Tatjana Bosković Matic<br>Asst. Prof. Aleksandar Gavrilovic |
| **3** | **13** | **Practice** | | Full Prof. Svetlana Miletic-Drakulic<br>Asst. Prof. Tatjana Boskovic Matic<br>Asst. Prof. Aleksandar Gavrilovic<br>Asst. Prof. Dejan Aleksic<br>Asst. Prof. Ana Azanjac Arsic<br>Asst. Prof. Snezana Lazarevic<br>Asst. Prof. Katarina Vesic |
| **3** | **14** | **Lecture** | Coma. Acute stroke. Epileptic status.<br><br>Most common emergency conditions in psychiatry. Conditions of psychomotor excitement, fugue and agitated states in intellectually deficient persons. Urgent conditions in affective disorders. | Full Prof. Svetlana Miletic Drakulic<br>Asst. Prof. Tatjana Bosković Matic<br>Asst. Prof. Aleksandar Gavrilovic<br><br>Full Prof. Mirjana Jovanovic |
| **3** | **14** | **Practice** | | Full Prof. Svetlana Miletic-Drakulic<br>Asst. Prof. Tatjana Boskovic Matic<br>Asst. Prof. Aleksandar Gavrilovic<br>Asst. Prof. Dejan Aleksic<br>Asst. Prof. Ana Azanjac Arsic<br>Asst. Prof. Snezana Lazarevic<br>Asst. Prof. Katarina Vesic<br><br>Full Prof. Goran Mihajlovic<br>Full Prof. Dragana Ignjatovic Ristic<br>Full Prof. Mirjana Jovanovic<br>Teaching Assistant Nemanja Muric<br>Full Prof. Vladimir Janjic<br>Full Prof. Milica Borovcanin<br>Assoc. Prof. Branimir Radmanovic |

# LESSON SCHEDULE FOR THE SUBJECT EMERGENCY MEDICAL CONDITIONS

| Module | Week | Type | Method unit name | Lecturer |
|---|---|---|---|---|
| **3** | **15** | **Lecture** | Emergency conditions in schizophrenia. Stupor as an emergency condition in psychiatry. Emergency conditions within addictive diseases. Acute psychoorganic syndrome. Chronic psychoorganic syndrome. Approach to a violent patient. | Full Prof. Mirjana Jovanovic |
| **3** | **15** | **Practice** | | Full Prof. Goran Mihajlovic<br>Full Prof. Dragana Ignjatovic Ristic<br>Full Prof. Mirjana Jovanovic<br>Teaching Assistant Nemanja Muric<br>Full Prof. Vladimir Janjic<br>Full Prof. Milica Borovcanin<br>Assoc. Prof. Branimir Radmanovic |
| | | **FT** | **FINAL TEST (Week 15)** | |

| Gr. | Br. | Ime i prezime | br indeksa | 1. Week | 2. week | 3. Week | 4. Week |
|---|---|---|---|---|---|---|---|
| 1. | 1 | Akhya Moli Sabu | 06/2023em | **Assist. Prof. Jelena Vučković** jelenavufi@gmail.com | **Full. Prof.Mirjana Veselinović** miraveselinovic.m@gmail.com | **Assoc. Prof. Tatjana Lazarević** tatjanalazarevickg@gmail.com | **Assoc. Prof. Violeta Mladenović** vikicam2004@gmail.com |
| | 2 | Khaldoun Bouaowina | 07/2023em | | | | |
| | 3 | Sahil Kumar JHA | 09/2023em | | | | |
| | 4 | Ansh Tyagi | 20/2023em | | | | |
| | 5 | Jitender Vats | 22/2023em | | | | |
| | 6 | Depanshi Sharma | 26/2023em | | | | |
| | 7 | Vanshita Tohaan | 29/2023em | | | | |
| | 8 | Jyoti | 30/2023em | | | | |
| | 9 | Ibrahim Muneam Jabbar Al-Fartoosi | 33/2023em | | | | |
| | 10 | Dhruv Tyagi | 46/2023em | | | | |
| | 11 | Udaya Kumari Anisetti | 52/2023em | | | | |
| 2. | 12 | Shakir Ali | 54/2023em | **Assist. Prof. Vladimir Ignjatović** vladaig@yahoo.com | **Assist. Prof. Vladimir Ignjatović** vladaig@yahoo.com | **Teaching assistant Jelena Živić** jelena.zy@gmail.com | **Teaching assistant Stefan Simović** simovicst@gmail.com |
| | 13 | Kashish Phore | 55/2023em | | | | |
| | 14 | Vinay Yadav | 56/2023em | | | | |
| | 15 | Anamika | 63/2023em | | | | |
| | 16 | Sneh Sagar | 64/2023em | | | | |
| | 17 | Swastik Sharma | 66/2023em | | | | |
| | 18 | Deepti | 67/2023em | | | | |
| | 19 | Avishkar | 79/2023e | | | | |

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|---|---|---|---|---|---|---|---|
| | | Sharma | m | | | | |
| | 20 | Gautam | 80/2023em | | | | |
| | 21 | Jayalekshmi Jayachandran | 89/2023em | | | | |
| | 22 | Donia Hnania | 102/2023em | | | | |
| 3. | 23 | Gazbar Aziz | 103/2023em | **Assoc. Prof. Miodrag Srećković** sreckovic7@gmail.com | **Assoc. Prof. Miodrag Srećković** sreckovic7@gmail.com | **Assist. Prof. Tomislav Nikolić** nikolic.s.tomislav@gmail.com | **Assist. Prof. Danijela Jovanović** daziv81@yahoo.com |
| | 24 | Chtioui Mohamed Aziz | 104/2023em | | | | |
| | 25 | Vidit Gautam | 108/2023em | | | | |
| | 26 | Suchitra Pandey | 109/2023em | | | | |
| | 27 | Sana Saadi | 110/2023em | | | | |
| | 28 | Taniya | 140/2023em | | | | |
| | 29 | Kuldeep Kumar Sharma | 143/2023em | | | | |
| | 30 | Priyanshu Garg | 145/2023em | | | | |
| | 31 | Mohamed Moustafa Eid Farhat Hegazy | 146/2023em | | | | |
| | 32 | Sosthenes Itamunoala Williams-Daka | 163/2023em | | | | |
| | 33 | Sherifdeen Adeyemi Akinbade | 167/2023em | | | | |
| | 34 | Ogadinma George Uche | 171/2023em | | | | |
| | 35 | Vanessa | 174/2023e | | | | |

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| 4. | | Otitodilichukwu Odiari | m | **Teaching assistant Stefan Simović**<br>simovicst@gmail.com | **Assoc. Prof. Vojislav Ćupurdija**<br>vojacup@gmail.com | **Teaching assistant Anita Sarić**<br>anitaivosevickg@gmail.com | **Assist. Prof. Željko Todorović**<br>todorovic_zeljko@hotmail.com |
| | 36 | Gideon Emmanuel Okon | 175/2023em | | | | |
| | 37 | Favour Enruchi Goddy-Oti | 179/2023em | | | | |
| | 38 | Dasola Esther Famakinwa | 183/2023em | | | | |
| | 39 | Mariya Chiriyamkandath Jose | 186/2023em | | | | |
| | 40 | Saniya Mary Stephen | 188/2023em | | | | |
| | 41 | Sreelakshmy Alingal Jayasreedas | 190/2023em | | | | |
| | 42 | Anakha Rajeswari | 191/2023em | | | | |
| | 43 | Nushaba Alam | 197/2023em | | | | |
| 5. | 44 | Mohammad Afshan Malik | 211/2023em | **Teaching assistant Anita Sarić**<br>anitaivosevickg@gmail.com | **Teaching assistant Anita Sarić**<br>anitaivosevickg@gmail.com | **Assist. Prof. Vladimir Ignjatović**<br>vladaig@yahoo.com | **Teaching assistant Jelena Živić**<br>jelena.zy@gmail.com |
| | 45 | Kunwar Saggu | 212/2023em | | | | |
| | 46 | Malika Kesar | 218/2023em | | | | |
| | 47 | Sudeep Lathwal | 219/2023em | | | | |
| | 48 | Sudipt Kaushik | 230/2023em | | | | |
| | 49 | Prerna Dabas | 231/2023em | | | | |
| | 50 | Beaulah Bhanumat | 235/2023em | | | | |

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|---|---|---|---|---|---|---|---|
| | | hi Darla | | | | | |
| | 51 | Gabriella Tokoni Idonije Aishat | 237/2023em | | | | |
| | 52 | Hetal Gujrathi | 246/2023em | | | | |
| | 53 | Sudhanshu Shashank Salgudi | 256/2023em | | | | |
| | 54 | Supriya Selvaraj | 62/2024em | | | | |
| 6. | 55 | Milad Dorosti | 63/2024em | **Assist. Prof. Tomislav Nikolić** nikolic.s.tomislav@gmail.com | **Assist. Prof. Tomislav Nikolić** nikolic.s.tomislav@gmail.com | **Assist. Prof. Danijela Jovanović** daziv81@yahoo.com | **Teaching assistant Anita Sarić** anitaivosevickg@gmail.com |
| | 56 | Sarina Soltani | 64/2024em | | | | |
| | 57 | Peace Oluchi Onyebuchi Otu | 65/2024em | | | | |
| | 58 | Taylor Ndochukwu Chimidigwe | 66/2024em | | | | |
| | 59 | Zaka Soumia | 78/2024em | | | | |
| | 60 | Abdessamad Layoun | 79/2024em | | | | |
| | 61 | Grace Chinasa Emmanuel | 80/2024em | | | | |
| | 62 | Alexander Demenkov | 83/2024em | | | | |
| | 63 | Khouloud Charfeddine | 115/2024em | | | | |
| | 64 | Chiamaka Vivian Udenze | 123/2024em | | | | |
| | 65 | Christiana | 142/2024e | | | | |

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| 7. | | h Oyindamola Oladimeji | m | **Assist. Prof. Željko Todorović**<br>todorovic_zeljko@hotmail.com | **Assist. Prof. Željko Todorović**<br>todorovic_zeljko@hotmail.com | **Assoc. Prof. Vojislav Ćupurdija**<br>vojacup@gmail.com | **Teaching Assist. PhD. Dragana Bubanja**<br>drbubanja@gmail.com |
| | 66 | Mohammed Hadaad Ndeiya | 148/2024em | | | | |
| | 67 | Angelica Scholastica Ihejirika | 150/2024em | | | | |
| | 68 | Deborah Oladipupo Omotayo | 151/2024em | | | | |
| | 69 | Nana Appiatse-Bentil | 154/2024em | | | | |
| | 70 | Hiba Es-Sabti | 157/2024em | | | | |
| | 71 | Pooja | 166/2024em | | | | |
| | 72 | Gideon Christian Olugolodhi | 167/2024em | | | | |
| | 73 | Precious Nelson Williams | 169/2024em | | | | |
| | 74 | Rozhin Pileh Fouroushha Ghazvini | 173/2024em | | | | |
| | 75 | Tamara-Ifie Anita Joy Ayemieye | 179/2024em | | | | |
| 8. | 76 | Sama Abdyazdani | 165/2023em | | | | |
| | 77 | Offiong Bassey Ekpo | 180/2023em | | | | |
| | 78 | Hosna Messoudi | 172/2024em | | | | |

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|---|---|---|---|---|---|---|---|
| | 79 | Abdul-Malik Oluwatomisin Mustapha | 177/2024em | **Teaching assistant**<br>**Jelena Živić**<br>jelena.zy@gmail.com | **Teaching assistant**<br>**Stefan Simović**<br>simovicst@gmail.com | **Assist. Prof. Željko Todorović**<br>todorovic_zeljko@hotmail.com | **Assist. Prof. Jelena Vučković**<br>jelenavufi@gmail.com |
| | 80 | Joel Jackson Edwin | 05/2023em | | | | |
| | 81 | Anusree Gopalankutty Sarada | 33/2025em | | | | |
| | 82 | Khouloud Haouam | 34/2025em | | | | |
| | 83 | Ahmed Abdelnasser Abdelhafez Mehany | 63/2025em | | | | |