**T.C. MALTEPE UNIVERSITY FACULTY OF MEDICINE**

**UNDERGRADUATE PROGRAM
2023-2024 ACADEMIC YEAR**

**EDUCATIONAL INFORMATION PACKAGE**

| **COURSE INFORMATION** |
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| **Course Name** | Anesthesiology and Reanimation | **Course code** | **TIP 502** |
| **Phase** | 5 | **Level of course** | Undergraduate | **Language of the Course** | English |
| **Mode of Delivery** | Face to face | **Lesson Type** | Compulsory |
| **Prerequisite** |  |

| **ECTS** |
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| **ECTS Credits** | **Theoretical Lecture Hours** | **Practical Hours** | **Course Duration** |
|  | 17 | 15 | 2 weeks |
| **COURSE COORDINATORS AND INSTRUCTORS** |
| **Course coordinator, contact information and Office hours:**Zeliha Özer MD., Professor, Maltepe University, Faculty of Medicine, Department of Anesthesiology and Reanimation**zelihaozer@maltepe.edu.tr****Office hours** **Monday 10.00-12.00****Instructors, contact information and Office hours:**, Ercan Şerifsoy, MD., Assistant Professor, Maltepe Üniversity, Faculty of Medicine, Department of Anesthesiology and Reanimationercan.serifsoy@maltepe.edu.tr**Office hours** **Monday 10.00-12.00**Abdullah Aydın Özcan MD., Assistant Professor, Maltepe Üniversity, Faculty of Medicine, Department of Anesthesiology and ReanimationAbdullahaydın.ozcan@maltepe.edu.tr**Office hours** **Monday 10.00-12.00** |

| **GENERAL OBJECTIVE AND CATEGORY OF THE COURSE** |
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| The general purpose of the Anesthesiology and Reanimation internship is to explain in detail the subjects of anesthesia practices, intensive care and algology. Basically, the definition of anesthesia and the responsibilities of the anesthesiologist, the concept of intensive care and what the need for intensive care means, the definition of algology and the interventions it includes are explained theoretically and practically.

| **CATEGORY OF THE COURSE** |
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| 1. Basic Vocational Course
 | **X** |
| 1. Specialization/Field Course
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| 1. Support lesson
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| 1. Transferable skills lesson
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| 1. Humanities, communication and management skills lesson
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| **COURSE TEXTBOOKS AND SUPPLEMENTARY READINGS** |
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| **Course Textbooks**Clinical Anesthesia, G.Edward Morgan |

| **COURSE ASSESSMENT AND EVALUATION SYSTEM**  |
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| **Sıra No.** | **Exam** | **Percent Grade** |
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| 1 | **Clerkship Examination** | %50 |
| 2 | **Clasical oral exam** |  |
| 3 | **ICE (….)** | %50 |
| 4 | **OSCE** (**Structured Subjective Clinical Examination** |  |

**NOTES:**Assessment and Evaluation System is organized according to T.C. Maltepe University Faculty of Medicine Education and Training Regulations |

| **COURSE LEARNING OUTCOMES, SUB-SKILLS AND COMPETENCIES** |
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| **Students completed this course;**

| NO | **Course learning outcomes, sub-skills and competencies** | Education method | Evaluation method |
| --- | --- | --- | --- |
| **1** | Will be able to define anesthesia comprehensively and list the basic features of anesthesia techniques. | EY2,EY5 | OD1,ÖD3 |
| **2** | Know the clinical findings necessary to diagnose respiratory failure. | EY2,EY5 | ÖD1,ÖD3 |
| **3** | Will be able to monitor the patient with respiratory failure and provide oxygen support with a mask. | EY4,EY5 | ÖD7 |
| **4** | Will be able to monitor the patient's vital functions non-invasively and recognize the data obtained by invasive methods on the monitor.  | EY2,EY5 | ÖD7 |
| **5** | Will be able to perform basic airway opening maneuvers | EY2,EY4 | ÖD7 |
| **6** | Will be able to ventilate the patient with balloon mask. | EY2,EY4 | ÖD7 |
| **7** | Will recognize advanced airway opening materials and know the techniques required to use them.. | EY2,EY4 | ÖD1,ÖD3,ÖD7 |
| **8** | Will be able to do basic life support to conscious and unconscious patient | EY2,EY4 | ÖD7 |
| **9** | Will know and be able to apply the cardiopulmonary resuscitation algorithm. | EY2,EY4 | ÖD1,ÖD3,ÖD7 |
| **10** | Will know the intravenous catheter placement. | EY4,EY5 | ÖD7 |
| **11** | Will recognize the intravenous fluids. | EY5 | ÖD7 |
| **12** | Will be able to define algology and know its scope. | EY2,EY5 | ÖD1,ÖD3,ÖD7 |
| **13** | Will be able to take anamnesis from the patient who applied to the outpatient clinic with complaints of pain. | EY5 | ÖD7 |

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| **COURSE CONTENTS** |
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| The Department of Anesthesiology and Reanimation Term 5 curriculum primarily includes courses on the definition of anesthesia, general anesthesia, regional anesthesia and peripheral blocks. The basic principles of general anesthesia applications, preoperative patient evaluation, types and mechanisms of action of anesthetic agents, and problems that may be experienced in the perioperative and postoperative periods are explained in detail.Modern anesthesia practices are carried out with advanced monitoring of patients with the contribution of technological developments.The content of the courses includes non-invasive and invasive monitoring techniques used to provide safe anesthesia to patients during operations, and it is ensured that the student fully understands the necessity of these techniques.Monitoring techniques and devices used are demonstrated practically at the bedside in the operating room and intensive care unit.Anesthesiology, intensive care and interventional algology practices require close monitoring of patients' vital signs, and especially rapid recognition and intervention of changes in hemodynamic indicators.In addition, recognition and treatment of existing circulatory deficiencies in patients who apply to the emergency department for various reasons and require intensive care admission or emergency surgery are one of the main topics in our courses.Anesthesia applications require full knowledge of airway anatomy.In the theoretical and practical courses of the internship, techniques for opening and keeping the airway open and the materials to be used are explained in detail.Since these techniques are also used in Cardiopulmonary Resuscitation practices, students are shown and made to practice airway interventions along with chest compressions in basic and advanced life support courses.One of our main goals is to ensure that a student who completes the Anesthesiology and Reanimation internship can diagnose a patient with respiratory failure.For this reason, the types of respiratory failure, clinical findings, biochemical and hemodynamic data required for diagnosis are extensively included in the course content and are discussed at the bedside in intensive care.Algology, one of the branches of science covered by the Department of Anesthesiology and Reanimation, is an area that should be well understood by students.The complaints of patients applying to the algology clinic and invasive and non-invasive treatment methods are demonstrated practically. |

| **PHASE 5 ANESTHESIOLOGY AND REANIMATION COURSES** |
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| **No** | **Course** | **Instructors** |
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| 1 | Anesthesia techniques (**Lecture 2 h**.) | Zeliha Özer,MD.Professor |
| 2 | Evaluation of vital signs (Monitorization and blood gas analysis)( **Lecture 2h**.) | Zeliha Özer, MD.Professor |
| 3 | Evaluation of vital signs (Monitorization and blood gas analysis) (**Operation room and intensive care practices)** | Abdullah Aydın Özcan, MD., Assistant Professor |
| 4 | Respiratory Failure, (**Lecture 2 h**.) | Zeliha Özer, MD.Professor |
| 5 | Basic life support **(Skill lab.practices)** | Ercan Şerifsoy, MD., Assistant Professor |
| 6 | Case Discussions (**Lecture 2 h**.) | Zeliha Özer, MD.Professor |
| 7 | Airway management **(Lecture 1h)** | Zeliha Özer, MD.Professor |
| 8 | Airway management **(Skill lab.practices 2 h)** | Abdullah Aydın Özcan, MD., Assistant Professor |
| 9 | Respiratory failure **(Operation room and intensive care practices 2h)** | Ercan Şerifsoy, MD., Assistant Professor |
| 10 | Advanced life support **(Lecture 1h)** | Zeliha Özer, MD.Professor |
| 11 | Advanced life support **(Skill lab.practices 2 h)** | Ercan Şerifsoy, MD., Assistant Professor |
| 12 | Anesthesia and intensive care case discussions **(Lecture 1h)** | Zeliha Özer, MD.Professor |
| 13 | Intravenous line access **(Skill Lab.practices 2h)** | Ercan Şerifsoy, MD., Assistant Professor |
| 14 | Fluid-electrolytes balance (**Operation room and intensive care practices)** | Abdullah Aydın Özcan, MD., Assistant Professor |
| 15 | Shock (**Lecture 2 h**.) | Zeliha Özer, MD.Professor |
| 16 | ECTS Form (**Lecture 1 h**.) | Nebahat Bozuçurum |

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| **EĞİTİM YÖNTEMLERİ KILAVUZU** |
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| **KODU** | **YÖNTEMİN ADI** | **AÇIKLAMA** |
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| **EY1** | Amfi Dersi | Tüm sınıfın bir arada bulunduğu, klinik öncesi eğitimde uygulanan derslerdir. |
| **EY2** | Sınıf Dersi | Klinik dönemde, küçük gruplar halinde uygulanan derslerdir. |
| **EY3** | Laboratuvar Uygulaması | Klinik öncesi dönemde uygulanan laboratuvar dersleridir. |
| **EY4** | Beceri Eğitimi Uygulaması | Sanal Klinikte veya başka ortamda yapılacak olan, öğrencinin gerçek hasta ile karşılaşmadan önce maket veya manken üzerinde yaptığı çalışmalardır. |
| **EY5** | Klinik Eğitim | Eğitici gözetiminde yapılan gerçek hastalarla hasta başı eğitim ya da modeller üzerinden uygulanarak klinik yeterlilik sağlayan etkinliklerdir. |
| **EY6** | Bağımsız Çalışma Saatleri | Öğrencinin öğrendiklerini tekrarlama ve yeni ders oturumlarına hazırlanmaları için ders programında yer alan sürelerdir. |
| **EY7** | Topluma Dayalı Eğitim Uygulaması | Alan uygulamaları, birim dışı mesleki uygulamalar vb. içerir. |
| **EY8** | Probleme Dayalı Öğrenme | PDÖ oturumları |
| **EY9** | Özel Çalışma Modülü | Öğrenciye bireysel olarak veya grup olarak bir konu hakkında derinlemesine bilgi edinmelerini sağlayacak uygulamalardır. |
| **EY10** | Bilimsel Araştırma Çalışması | Öğrencinin bilimsel araştırma yetkinliğini geliştirmeye yönelik uygulamalardır. |
| **EY11** | Diğer | Bu kod kullanılması halinde eğitim yönteminin detaylı yazılması gerekmektedir. |

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| **ÖLÇME DEĞERLENDİRME YÖNTEMLERİ KILAVUZU** |
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| **KODU** | **YÖNTEMİN ADI** | **AÇIKLAMA** |
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| **ÖD1** | Kuramsal Sınav (Çoktan Seçmeli, Çoklu Seçmeli vb sorular içeren) | Komite, final sınavlarında kullanılan sınavdır. |
| **ÖD2** | Pratik sınav | Laboratuvar uygulamaları için kullanılmalıdır. |
| **ÖD3** | Klasik Sözlü |  |
| **ÖD4** | Yapılandırılmış Sözlü | Soru ve cevapların önceden bir form üzerinde hazırlanmış olduğu sözlü sınavdır. |
| **ÖD5** | OSCE | Nesnel Yapılandırılmış Klinik Sınav |
| **ÖD6** | CORE | Klinik Akıt Yürütme Sınavı |
| **ÖD7** | ICE (İş Başı Değerlendirme) | Eğiticinin öğrenciyi hasta başında veya uygulama esnasında yaptığı değerlendirmedir. |
| **ÖD8** | Diğer | Mutlaka açıklamanın yapılması gerekir. |

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