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

**UNDERGRADUATE PROGRAM
2022-2023 ACADEMIC YEAR**

**EDUCATIONAL INFORMATION PACKAGE**

| **COURSE INFORMATION** |
| --- |
| **Course Name** | **Respiratory Diseases Clerkship** | **Course Code** | **MED 519** |
| **Phase**  | 5 | **Level of the Course** | Undergraduate | **Language of the Course** | English |
| **Mode of Delivery** | Face to face, E-Learning , hybrid | **Lesson Type** | Compulsory |
| **Practice/Laboratuary Site** | Maltepe University Medical Faculty Hospital,  | **Suggested Courses** | None |
| **Prerequisite** | 1. MED 100 2. MED 2003. MED 3004. MED 400 (All courses in Phase 4) | **Concurrent Requirements:**None |

| **ECTS**  |
| --- |
| **ECTS Credits** | **Theoretical Lecture Hours** | **Practical Hours** | **Course Duration** |
| 5 | 29 | 31 | 2 weeks |

| **COURSE COORDINATORS AND INSTRUCTORS** |
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| **Contact information and office hours of the Coordinator:**Yonca SEKİBAĞ Assistant Professor, Maltepe University, Faculty of Medicineyonca.sekibag@maltepe.edu.tr extension: 2148**Office hours:**Monday:10:00-11:00

| Sema UMUT, MD., Professor, Maltepe University Faculty of Medicinesemaumut@maltepe.edu.tr extension . No: 2121**Office hours:**Tuesday:13:00-14:00Hürrem Gül ÖNGEN, MD., Professor, Maltepe University Faculty of Medicine hurremgulongen@maltepe.edu.tr extension . No: 2121**Office hours:**Tuesday:14:00-15:00 |
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| **GENERAL OBJECTIVE AND CATEGORY OF THE COURSE** |
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| **Objectives of the Course**: The acquisition of epidemiology, pathophysiology and clinical aspects of the most important and frequently encountered pulmonary diseases and inform the diagnosis, treatment and follow-up protocols.

| **COURSE CATEGORY** |
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| 1. Basic vocational course
 | **x** |
| 1. Specialization / Field Course
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| 1. Support lectures
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| 1. Transferable skill courses
 |  |
| 1. Humanities, Communication and Management skill courses
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| **COURSE LEARNING OUTCOMES, SUB-SKILLS and COMPETENCIES** |
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| **Students completing this course;**

| **No** | **Learning Outcomes/ Subordinate Skills / General Competencies** | **Educational Methods** | **Measurement Evaluation Methods** |
| --- | --- | --- | --- |
| **1** | Students are able to list the symptoms of the patiens and correlate them with the diseaes. | EM2, EM4, EM5 | ME1, ME4, ME5, ME7 |
| **2** | Students are able to tell and perform physical examination and correlate them with the diseaes  | EM2, EM4, EM5 | ME1, ME4, ME5, ME7 |
| **3** | Students are able to summarize the clinical and laboratory characteristics, diagnosis methods and treatment modalities of infectious diseases of the respiratory system and can perform them.  | EM2, EM5 | ME1, ME7 |
| **4** | Students are able to summarize the clinical and laboratory characteristics, diagnosis methods and treatment modalities of tumours of the respiratory system . | EM2, EM5 | ME1, ME7 |
| **5** | Students are able to summarize the clinical and laboratory characteristics, diagnosis methods and treatment modalities of airway diseases of the respiratory system . | EM2, EM4, EM5 | ME1, ME4, ME5, ME7 |
| **6** | Students are able to tell the preoperative evaluation of the respiratory system. | EM2, EM5 | ME1, ME7 |
| **7** | Students are able to recognize the most frequently encountered sleep related disorders and can summarize and perform the clinical and laboratory characteristics, diagnosis methods and treatment modalities.  | EM2, EM5 | ME1, ME7 |
| **8** | Students are able to recognize the emergency aspects of the respiratory diseases and can summarize and perform the clinical and laboratory characteristics, diagnosis methods and treatment modalities.  | EM2, EM4, EM5 | ME1, ME7 |
| **9** | Students are able to summarize the headlines of tobacco control strategies. | EM2, EM5 | ME1, ME7 |
| **10** | Students are able to list the diagnosis methods of respiratory diseases and summarize them. | EM2, EM4, EM5 | ME1, ME4, ME5, ME7 |
| **11** | Students are able to summarize the principals of lung transplantaion. | EM2,  | ME1,  |
| **12** | Students are able to summarize the principals in evaluation of pleural diseases. | EM2, EM5 | ME1, ME7 |
| **13** | Students are able to summarize the principals in evaluation of interstitial lung diseases. | EM2, EM5 | ME1, ME7 |

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| **GENERAL COMPETENCIES:** |
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| 1. Productive
2. Rational
3. Interrogative
4. Enterprising
5. Creative
6. Ethical
7. Respecting differences
8. Social awareness
9. Manipulation of native language
10. Environmental awareness
11. Effective use of a foreign language
12. Adaption to different social roles and situations
13. Team work
14. Effective time usage
15. Critical thinking
16. Problem solving
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| **COURSE CONTENTS** |
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| **Content of the Course:**Approach to the patient with pulmonary symptoms and signs, how to take anamnesis and interview with a patient, physical examination of the thorax, tuberculosis, tuberculosis in special conditions, tuberculosis cases, pneumonia, COPD, pleural effusions, bronchiectasis, astma, astma acute exacerbations, Interstitial lung diseases, sarcoidosis, sleep related breathing disorders, pulmonary embolism, preoperative evaluation, respiratory failure and ARDS, pulmonary hypertension, lung tumours, respiratory emergencies, cigarette addiction and treatment, lung transplantation, arterial blood gases and lung function tests, assessment of chest X-Rays.  |

| **COURSE TEXTBOOKS AND SUPPLEMENTARY READINGS** |
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| **Textbooks**1-Temel Akciğer Sağlığı ve Hastalıkları Ders Kitabı. Editör: Arseven O. Nobel Tıp Kitabevleri. 2020.2-Göğüs Hastalıkları. Editörler: Dalar L, Süerdem M, Öztürk C, Saygı A. İstanbul Tıp Kitabevi. 2015.3-Solunum Acilleri. Editörler: Kaya A, Sevinç C. Poyraz Yayıncılık. 2007.**Supplemantary Readings** 1-Solunum Sistemi ve Hastalıkları. Editörler: Özlü T, Metintaş M, Karadağ M, Kaya A. İstanbul Tıp Kitabevi. 2010.2-Murray and Nadel’s Textbook of Respiratory Medicine, 5th Edition. Ed: Mason RJ, Broaddus VC, Martin T, King T, Schraufnagel D, Murray JF, Nadel JA. Elsevier&Saunders. 2010.3-Tüberküloz. Editörler: Özkara Ş, Kılıçaslan Z. Aves Yayıncılık. 2010.4-Fishman A.P., Elias J.A., Fishman J.A., Grippi M.A., Senior R.M., Pack A.I. Fishman’s Pulmonary Diseases and Disorders, USA, 2008. |

| **COURSE ASSESSMENT AND EVALUATION SYSTEM** |
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| **Studies during the year** | **Percent grade** |
| --- | --- |
| **Clerkship Examination**  | 40% |
| **Structured Oral Examination**  | 20% |
| **ICE (Business head Evaluation )** | 20% |
| **OSCE (Structured Subjective Clinical Examination)** | 20% |
| **Attendance**  | 0% |
| **Laboratory** | 0% |
| **Clinical Practice** | 0% |
| **Field study** | 0% |
| **Lesson Specific Internship** **(if there is)**  | 0% |
| **Homework** | 0% |
| **Presentation** | 0% |
| **Project** | 0% |
| **Seminar** | 0% |
| **Problem Based Learning** | 0% |
| **Others** | 0% |
| **TOTAL** | 100% |

**NOTES:**1. Students who score below 60% in the Clerkship Examination cannot take the Structured Oral Exam. 2. Students who score less than 50% in the Structured Oral Exam are considered unsuccessful.Assessment and Evaluation System is organized according to T.C. Maltepe University Faculty of Medicine Education and Training Regulations. |

| **ECTS STUDENT WORKLOAD TABLE** |
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| **Activities** | **Number** | **Duration****(hours)** | **Total work load** |
| --- | --- | --- | --- |
| **Lectures** | **29** | **1** | **29** |
| **Laboratory** | **-** | **-** | **-** |
| **Practice** | **31** | **1** | **31** |
| **Lesson specific internship** (if there is)  | **-** | **-** | **-** |
| **Field study** | **-** | **-** | **-** |
| **Lesson study time out of class** (pre work, strengthen, etc) | **10** | **3** | **30** |
| **Presentation / Preparing seminar** | **-** | **-** | **-** |
| **Project** | **-** | **-** | **-** |
| **Homework** | **-** | **-** | **-** |
| **İnterval examinations** | **-** | **-** | **-** |
| **Clerkship Examination**  | **1** | **30** | **30** |
| **Total work load**  | **120** |

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| **RELATIONSHIP BETWEEN RESPIRATIORY DISEASES COURSE LEARNING OUTCOMES AND MEDICAL EDUCATION PROGRAMME KEY LEARNING OUTCOMES** |
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| **No** | **Program Competencies/ Outcomes** | **Level of Contribution[[1]](#footnote-0)\*** |
| --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| **1** | Able to explain the normal structure and functions of the organism. |  |  |  |  | **X** |
| **2** | Able to explain the pathogenesis, clinical and diagnostic features of psychiatric disorders |  |  |  |  | **X** |
| **3** | Able to take history and perform mental status examination. |  |  |  |  | **X** |
| **4** | Able to perform first step interventions and refer and transfer cases in life threatening emergency situations. |  |  |  |  | **X** |
| **5** | Able to perform necessary basic medical interventions for the diahnosis and treatment of mental |  |  |  |  | **X** |
| **6** | Able to perform preventive measures and forensic practices. |  |  |  |  | **X** |
| **7** | Having sufficient knowledge about the structure and process of the National Health System. |  |  |  |  | **X** |
| **8** | Able to define legal responsibilities and ethical principles.  |  |  |  |  | **X** |
| **9** | Able to perform first step care of most prevalent disorders in the community with effective evidence based medical methods. |  |  |  |  | **X** |
| **10** | Able to organize and implement scientific meetings and projects  | **X** |  |  |  |  |
| **11** | Able to use a major foreign language sufficient enough for follow up of literature and update of medical knowledge; able to use computer and statistical skills for the evaluation of scientific studies.  |  |  | **X** |  |  |

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\*1 lowest, 2 low, 3 fair, 4 high, 5 highest.

| **PHASE 5 MED 519 RESPIRATORY DISEASES** **CLERKSHIP COURSE LIST AND RANKING** |
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| **No.** | **Subject/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | Physical examination of respiratory system (Lecture: 1 Hour) | Ender Levent |
| 2 | Physical examination of respiratory system (Practice: 2 Hours) | Ender Levent,  |
| 3 | Assessment of a patient with pulmonary signs and symptoms (Lecture: 1 Hour) | Nesrin Sarıman |
| 4 | How to take anamnesis and interview with a patient (Practice: 2 Hours) | Nesrin Sarıman |
| 5 | Arterial Blood Gases (Lecture: 1 Hour) | Sema Umut |
| 6 | Lung function tests (Lecture: 1 Hour) | Sema Umut |
| 7 | Assessment of Lung function tests (Practice: 1 Hour) | Sema Umut |
| 8 | Pleural Effusion (Lecture: 2 Hours) | Hürrem Gül Öngen |
| 9 | Assessment of Chest X ray (Lecture: 1 Hour) | Ender Levent |
| 10 | Assessment of Chest X ray (Practice: 1 Hour) | Ender Levent |
| 11 | Interstitial lung diseases (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 12 | Sarcoidosis (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 13 | Bronchoprovocation test (Practice: 1 Hour) | Sema Umut |
| 14 | Chronic obstructive lung disease (Lecture: 2 Hours) | Sema Umut |
| 15 | Pneumonia - treatment (Lecture: 2 Hours) | Sema Umut |
| 16 | Tuberculosis (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 17 | Tuberculosis in special conditions (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 18 | Asthma (Lecture: 1 Hour) | Sema Umut |
| 19 | Management of an asthmatic attack (Lecture: 1 Hour) | Sema Umut |
| 20 | Preoperative evaluation (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 21 | Respiratory insufficiency and ARDS (Lecture: 1 Hour) | Sema Umut |
| 22 | How to use and evaluate measurements of Peak-Flow meter (Practice: 1 Hour) | Sema Umut |
| 23 | Bronchiectasis (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 24 | Lung transplantation (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 25 | OSAS (Obstructive sleep apnea syndrome) (Lecture: 1 Hour) | Nesrin Sarıman |
| 26 | Pulmonary embolism (Lecture: 2 Hours) | Hürrem Gül Öngen |
| 27 | Pulmonary Hypertension (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 28 | How to use inhaler drugs (Practice: 2 Hours) | Sema Umut |
| 29 | How to assess polysomnographic records (Practice: 1 Hour) | Nesrin Sarıman |
| 30 | Lung tumors - Malignant pleural effusions (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 31 | Interview with a patient with lung cancer (Lecture: 1 Hour) | Hürrem Gül Öngen |
| 32 | Tuberculosis cases (Lecture: 2 Hours) | Hürrem Gül Öngen |
| 33 | Nicotine addiction (Lecture: 1 Hour) | Sema Umut |
| 34 | Assessment of arterial blood gases (Practice: 1 Hour) | Sema Umut |
| 36 | Pracitical hours for assessment of Thorax CT (Practice: 1 Hour) | Ender Levent |
| 37 | Bronchoscopic procedures (Practice: 1 Hour) | Ender Levent |
| 38 | Pracitical hours for NIMV (Practice: 2 Hours) | Ender Levent |
| 39 | Practice hours in outpatient clinic and assessment of Lung function tests (Practice: 1 Hour) | Ender Levent, Nesrin Sarıman |
| 40 | Practice hours in outpatient clinic and how to assess polysomnographic records (Practice: 1 Hour) | Ender Levent, Nesrin Sarıman |
| 41 | Practice hours in outpatient clinic and assessment of arterial blood gases (Practice: 1 Hour) | Ender Levent, Nesrin Sarıman |
| 42 | Practice hours in outpatient clinic and how to write a prescription (Practice: 6 Hours) | Ender Levent, Nesrin Sarıman |
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| **PHASE 5 MED 519 RESPIRATORY MEDICINE CLERKSHIP SCHEDULE** |
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| 1. Week |
| Days | Monday  | Tuesday | Wednesday | Thursday | Friday |
| 8.30-9.30 | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |
| 9.30-10.30 | Physical examination of respiratory system (lecture)Prof.Dr.E.Levent | Arterial Blood Gases (lecture)Prof.Dr. S.Umut | Assessment of Chest X ray (Practice)Prof.Dr.E.Levent | Pneumonia - treatment (lecture)Prof.Dr. S.Umut | Preoperative evaluation (lecture)Prof.Dr.H.G.Öngen |
| 10.30-11.30 | Physical examination of respiratory system (Practice) Prof.Dr.E.Levent | Lung function tests (lecture)Prof.Dr. S.Umut | İ Interstitial lung diseases (lecture)Prof.Dr.H.G.Öngen | Pneumonia - treatment (lecture)Prof.Dr. S.Umut | Respiratory insufficiency and ARDS (lecture)Prof.Dr. S.Umut |
| 11.30-12.30 | Physical examination of respiratory system (Practice) Prof.Dr.E.Levent | Assessment of Lung function tests-(Practice)Prof.Dr. S.Umut | Sarcoidosis (lecture)Prof.Dr.H.G.Öngen | Tuberculosis (lecture) Prof.Dr.H.G.Öngen | How to use and evaluate measurements of Peak-Flow meter -Practice Prof.Dr. S.Umut |
| 12.30-13.30 | **Lunch Time** | **Lunch Time** | **Lunch Time** | **Lunch Time** | **Lunch Time** |
| 13.30-14.30 | Assessment of a patient with pulmonary signs and symptoms (Lecture)Prof.Dr. N. Sarıman | Pleural Effusion (lecture)Prof.Dr.H.G.Öngen | Bronchoprovocation test (Practice)Prof.Dr. S.Umut | Tuberculosis in special conditions (lecture)Prof.Dr.H.G.Öngen | Bronchiectasis (lecture) Prof.Dr.H.G.Öngen  |
| 14.30-15.30 | How to take anamnesis and interview with a patient (Practice)Prof.Dr. N. Sarıman | Pleural Effusion (lecture)Prof.Dr.H.G.Öngen | Chronic obstructive lung disease (lecture)Prof.Dr. S.Umut | Asthma (lecture)Prof.Dr. S.Umut | Lung transplantation (lecture)Prof.Dr.H.G.Öngen |
| 15.30-16.30 | How to take anamnesis and interview with a patient (Practice)Prof.Dr. N. Sarıman | Assessment of Chest X ray (lecture)Prof.Dr.E.Levent | Chronic obstructive lung disease (lecture) Prof.Dr. S.Umut | Management of an asthmatic attack (lecture)Prof.Dr. S.Umut  | OSAS (Obstructive sleep apnea syndrome) (lecture)Prof.Dr. N. Sarıman |
| 16.30-17.30 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |
| 2.Week |
| 8.30-9.30 | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Visit / Case based learning Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |  |
| 9.30-10.30 | Pulmonary embolism (lecture)Prof.Dr.H.G.Öngen | Lung tumors - Malignant pleural effusions (lecture)Prof.Dr.H.G.Öngen | Pracitical hours for assessment of Thorax CT-Practice Prof.Dr.E.Levent | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Clerkship Examination |
| 10.30-11.30 | Pulmonary embolism (lecture)Prof.Dr.H.G.Öngen | Interview with a patient with lung cancer (lecture)Prof.Dr.H.G.Öngen | Bronchoscopic procedures-Practice Prof.Dr.E.Levent | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |  |
| 11.30-12.30 | Pulmonary Hypertension (lecture)Prof.Dr.H.G.Öngen | Tuberculosis cases (lecture)Prof.Dr.H.G.Öngen | Pracitical hours for NIMV-Practice Prof.Dr.E.Levent | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Structured Oral Examination |
| 12.30-13.30 | **Lunch Time** | **Lunch Time** | **Lunch Time** | **Lunch Time** | **Lunch Time** |
| 13.30-14.30 | How to use inhaler drugs - Practice Prof.Dr. S.Umut | Sigara bağımlılığı tedavisi Prof.Dr. S.Umut | Practice hours in outpatient clinic and assessment of Lung function tests Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |  |
| 14.30-15.30 | How to use inhaler drugs - Practice Prof.Dr. S.Umut | Assessment of arterial blood gases-Practice Prof.Dr. S.Umut | Practice hours in outpatient clinic and how to assess polysomnographic records Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |  |
| 15.30-16.30 | How to assess polysomnographic records Practice Prof.Dr. N. Sarıman | Tuberculosis cases (lecture)Prof.Dr.H.G.Öngen | Practice hours in outpatient clinic and assessment of arterial blood gases Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman | Practice hours in outpatient clinic and how to write a prescription Prof.Dr.E.Levent/ Prof.Dr. N. Sarıman |  |
| 16.30-17.30 |  |  |  |  |  |
|  |  |  |  |  |  |

NOTE: Prepare this table for each week of your course.

| EDUCATIONAL METHODS GUIDE |
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| **CODE** | **METHOD NAME** | **EXPLANATION** |
| --- | --- | --- |
| **EM1** | Amphitheatre lesson | These are the courses applied in preclinical education where the whole class is together. |
| **EM2** | Class lesson | These are courses applied in small groups during the clinical period. |
| **EM3** | Lab application | These are laboratory courses applied in the preclinical period. |
| **EM4** | Skill Training App | It is the work that the student does on a model or mannequin before meeting with the real patient, which will be done in the Virtual Clinic or other environment. |
| **EM5** | Clinic Education | These are activities that provide clinical competence by applying bedside training with real patients or models under the supervision of trainers. |
| **EM6** | Independent Study Hours | These are the periods in the curriculum for the student to repeat what they have learned and to prepare for new lesson sessions. |
| **EM7** | Community Based Education Application | Field practices, non-unit professional practices, etc. includes. |
| **EM8** | Problem Based Learning | Problem based learning. |
| **EM9** | Private Study module | These are applications that will enable the student to gain in-depth knowledge about a subject individually or as a group. |
| **EM10** | Scientific Research study | These are applications aimed at improving the scientific research competence of the student. |
| **EM11** | Other | If this code is used, the training method should be written in detail. |

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| **MEASUREMENT EVALUATION METHODS GUIDE** |
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| **CODE** | **METHOD NAME** | **EXPLANATION** |
| --- | --- | --- |
|  **ME1** | Theoretical Exam ( Multiple Elective , Multiple Optional etc Questions containing ) | The committee is the exam used in the final exams. |
|  **ME2** | Practical exam | It should be used for laboratory applications. |
| **ME3** | Classical Verbal |  |
| **ME4** | Structured Oral | It is an oral exam in which questions and answers are prepared on a form beforehand. |
| **ME5** | OSCE | Objective Structured Clinical Examination |
| **ME6** | CORE | Clinical Act Execution Exam |
| **ME7** | ICE ( Business head Evaluation ) | It is the evaluation made by the trainer on the student at the bedside or during the practice. |
| **ME8** | Other | A statement must be made. |

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1. [↑](#footnote-ref-0)