

| MED 656 - COURSE INFORMATION | | | | | |
|--|---------|---------------|----------|---------|------|
| Course Title | Code | Semester | L+P Hour | Credits | ECTS |
| Cardiovascular Surgery (Clinical internship) | MED 656 | Phase 6/11-12 | 120 | 5 | 5* |

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

| GENERAL INFORMATION | |
|--|---|
| This course is for Phase VI students of Yeditepe University Faculty of Medicine. | |
| Prerequisites | Obligatory (main) courses of Phase V should be completed. |
| Coordination Office | Yeditepe University Hospital. |
| Email address for inquiries | tijen.bozkaya@yeditepe.edu.tr |
| Attendance | Students are required to attend to at least 80% of the classes. |
| Language of Instruction | English |
| Course Level | Second Cycle including First Cycle Degree (One Tier Programme) |
| Course Type | Elective course |
| Course Coordinator | |
| Lecturers/Instructors | Tijen Alkan Bozkaya, MD, PhD, |
| Assistants | |
| Goals | The aim of the elective course is to equip the intern with enriched knowledge and skills in the preferred medical specialty. |
| Content | The elective internship is a 1 month rotation for the 6th year medical students which has been chosen by the students from the area elective courses in the curriculum. Like the other rotations, evaluation of student performance will be based on overall clinical performance both in hospital and outpatient clinics, case papers, the attitudes toward patients, participation in seminars and overnight calls, regular attendance at scientific meetings, lectures and case conferences, the level of scientific and practical knowledge and consulting skills. Ratings of students recorded with required projects and will be performed as "passed" or "failed" with an overall evaluation score of 100. |

AŞAĞIDAKİ TABLONUN SEÇMELİ DERSE GÖRE UYARLANMASI VE DAHA KAPSAMLI HALE GETİRİLMESİ GEREKİYOR

| COURSE LEARNING OUTCOMES | | | |
|--|-------------------------------|------------------|--------------------|
| At the end of this course, student should be able to | Program Learning Outcomes | Teaching Methods | Assessment Methods |
| explain the management principles of most frequently encountered health conditions (healthy, clinical, public, environmental, forensic, etc.). Cardiac anatomy, pathophysiology, coronary artery bypass grafting, simultaneous cardiac operations, valve diseases and surgical approach (repair and/or replacement), aortic aneurysm and aortic dissections and surgical approach, operative methods, deep venous thrombosis and pulmonary emboli prevention, medical protocols and if necessary surgical approaches. 3 major mortal clinical situation for chest pain and triple rule out procedures and protocols. | 1.1.1 2.1.1 2.1.2 | 1,2,3,4 | A |
| show/demonstrate clinical skills and attitude required to manage most frequently encountered health conditions (healthy, clinical, public, environmental, forensic, etc.). cardiovascular anatomy and endogen graft (vsm: vena sephana magna) traje, minor surgical education on the bed side and assist for graft preparation and suture methods. | 2.1.1 2.1.2 2.1.3,2.1.4 | 1,2,3,4 | A |

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| Communication skills about professional cardiovascular health problems, management therapeutic approach and medical – surgical decision make algorithms, member and leadership of the surgical team and rules, communications with patients and their families, knowledge updates according to update guidelines, show the basic textbooks and medical journals, teach of research methods and principles, workshops of clinical research and principles. | 2.2.3,2.2.4.1,2.4.2,2.4.3,2.5.3,3.1.1,3.1.2,3.1.3,3.1.4,3.2.1,3.2.2,3.2.3 | | |

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| Teaching Methods: | 1. Clinical Experience (Learning environments: Inpatient clinic, Outpatient clinic, Operating room, Invasive interventions room, Laboratory, Imaging room, Emergency care unit, Family Healthcare Center, Public Healthcare Center) (Learning activities: Grand round, Patient bedside discussion, Observership, Clinical practice, Laboratory round, Imaging round) |
| Assessment Methods: | A: Internship Evaluation Form (Assessment of Clinical Performance) |
| Teaching | 1: Lectures 2: Question-Answer 3: Discussion 4: Case-study |

| COURSE CONTENT | | |
|----------------|--|-----------------|
| Week | Topics Cardiovascular system examination, anamnesis and cardiac anatomy and physiology knowledge acquisition/repetition after major cardiovascular diseases; adult (coronary diseases, heart valve diseases, aortic aneurysm and dissection, cardiac assist devices and heart transplantation in heart failure, vascular interventions, artery, vein and lymphatic diseases and heart tumors and surgical approaches) and congenital heart diseases (congenital and acquired diseases, cyanotic and acyanotic congenital heart diseases and surgical approaches, palliative and corrective heart surgeries, surgical decision-making indices, surgical risk scoring systems) and diagnosis and treatment approaches through case scenarios | Study Materials |
| | | |

| COURSE MATERIALS | |
|---------------------------------|---|
| Text Books and Reading Material | 1- Cardiac Surgery in Adults, Cohn L.H. Mc Graw Hill 2- Cardiac Surgery, Kouchoukos N.T., et al. Churchill Livingstone 3- Haimovici's Vascular Surgery, Ascher E., et al. Wiley-Blackwell |
| Additional Resources | Uptodate her ders sonunbda update guidelines verilmektedir. |

| YEDİTEPE UNIVERSITY FACULTY OF MEDICINE | |
|---|--|
| INTERN PHYSICIAN EVALUATION FORM | |
| <i>This form includes evaluation components for intern physicians and is the basis of the passing grade for internship.</i> | |
| Intern's name and surname: | |
| Intern number: | |
| Internship program name: | |
| Dates of start and end for internship program: | |
| 1. Evaluation of Cognitive Competencies | |

*** The level of competency** should be determined based on **participation in educational activities** (Title 1 on the **Intern Logbook**) and the observations of the Faculty Member / Internship Training Supervisor / Head of the Department for the intern.

| | | |
|---|--|---|
| | | *Competency Level |
| 1.1. Clinical reasoning and decision making The stages of decision making process in an evidence based manner; to determine preliminary / differential diagnosis/diagnoses, to order appropriate diagnostic tests, to achieve an appropriate definitive diagnosis and treatment (interventional or not). | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 1.2. Professional knowledge During the educational activities (case discussions, educational visits, faculty member seminars, intern physician seminars, etc.) to answer the questions, to ask the questions, to start a discussion, to contribute to the discussion, to display an understanding of the subject. | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 1.3. Literature review and seminar presentation Preparation based on evidence of higher scientific strength, presenting the subject in a solid logical reasoning with in a reference to essential check points, mastering the subject, answering the questions asked. | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | |
| 2. Evaluation of Competencies for Basic Medical Practice * The level of competency should be determined based on basic medical practice (Title 2 on the Intern Logbook) and the observations of the Faculty Member / Internship Training Supervisor / Head of Department for the intern. | | |
| | | * Competency Level |
| Basic medicine practices based on Intern Logbook | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | |
| 3. Evaluation of Professional Competencies for Medicine | | |
| | | * Competency Level |
| 3.1. Communicating with patients and relatives | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 3.2. Compliance in hospital rules (i.e. standard operating procedures, SOPs) | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 3.3. Working in a team and collaborating and communicating with team members | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 3.4. Performing given tasks | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |

| 3.5. Diligence on attendance and participation in scientific activities | | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|-------------|--------------|---------------|----------|----|-----|---------|----|-----|---------|----|-----|---------|----|-----|---------|----|-----|--------|----|--|--------|----|--|
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evaluated Competencies | Total Score (Over 100) (For each section below, the score below 70 obtained by the Intern is a reason for inadequacy.) | Impact on Internship End Score | | | | | | | | | | | | | | | | | | | | | | | | |
| Cognitive Competencies | Score:.... | 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| Competencies for Basic Medical Practice | Score:.... | 60% | | | | | | | | | | | | | | | | | | | | | | | | |
| Professional Competencies for Medicine | Score:.... | 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>*If the competency level for the intern is determined as “does not meet the expectations” in any part of the evaluation form, the intern is considered to be unqualified. In this condition, FF is given as a letter grade.</p> <p>**If the intern physician is deemed inadequate due to absenteeism, FA is given as a letter grade.</p> <p>Internship Evaluation End Score:</p> <p>Letter Grade:.....</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Score Range</th> <th>Letter Grade</th> <th>Credit Rating</th> </tr> </thead> <tbody> <tr><td>90 – 100</td><td>AA</td><td>4.0</td></tr> <tr><td>80 – 89</td><td>BA</td><td>3.5</td></tr> <tr><td>70 – 79</td><td>BB</td><td>3.0</td></tr> <tr><td>65 – 69</td><td>CB</td><td>2.5</td></tr> <tr><td>60 – 64</td><td>CC</td><td>2.0</td></tr> <tr><td>0 – 59</td><td>FF</td><td></td></tr> <tr><td>Absent</td><td>FA</td><td></td></tr> </tbody> </table> | | | Score Range | Letter Grade | Credit Rating | 90 – 100 | AA | 4.0 | 80 – 89 | BA | 3.5 | 70 – 79 | BB | 3.0 | 65 – 69 | CB | 2.5 | 60 – 64 | CC | 2.0 | 0 – 59 | FF | | Absent | FA | |
| Score Range | Letter Grade | Credit Rating | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 – 100 | AA | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 – 89 | BA | 3.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 – 79 | BB | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 – 69 | CB | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 – 64 | CC | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 – 59 | FF | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absent | FA | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Attendance | Absence \leq 20% <input type="checkbox"/> | Absence > 20% <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| Decision | Qualified <input type="checkbox"/> | Unqualified <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |

Date:

Internship Commission: _____

Faculty Member

Faculty Member

Internship Training Supervisor

Head of the Department

| COURSES CONTRIBUTION TO PROGRAM | | | | | |
|--|--------------|---|---|---|---|
| COMPETENCE AREA-1 / Professional Practices | Contribution | | | | |
| COMPETENCE 1.1. Health Service Provider | 1 | 2 | 3 | 4 | 5 |
| Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services. | | | | | X |
| Competency 1.1.2. Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management. | | | | | X |
| Competency 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services. | | | | | X |
| Competency 1.1.4. Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health. | | | | | X |
| Competency 1.1.5. Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience. | | | | | X |
| Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery. | | | | | X |
| Competency 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation. | | | | | X |
| Competency 1.1.8. Provides healthcare services considering patient and employee health and safety. | | | | | X |
| Competency 1.1.9. Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services. | | | | | X |
| COMPETENCE AREA-2 / Professional Values and Approaches | Contribution | | | | |
| COMPETENCE 2.1. Adopting Professional Ethics and Principles | 1 | 2 | 3 | 4 | 5 |
| Competency 2.1.1. Considers good medical practices while performing the profession. | | | | | X |
| Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. | | | | | X |
| Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. | | | | | X |
| Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. | | | | | X |
| COMPETENCE 2.2. Health Advocate | | | | | |
| Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. | | | | X | |
| Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. | | | | | X |
| Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. | | | | X | |
| Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it. | | | | | X |
| COMPETENCE 2.3. Leader-Manager | | | | | |

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|--|---------------------|----------|----------|----------|----------|
| Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery. | | | | | X |
| Competency 2.3.2. Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution. | | | X | | |
| COMPETENCE 2.4. Team Member | | | | | |
| Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary. | | | | | X |
| Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team. | | | | | X |
| Competency 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice. | | | | | X |
| COMPETENCE 2.5. Communicator | | | | | |
| Competency 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations. | | | | | X |
| Competency 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics. | | | | | X |
| Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. | | | | | X |
| COMPETENCE AREA-3 / Professional and Personal Development | Contribution | | | | |
| COMPETENCE 3.1. Scientific and Analytical Approach | 1 | 2 | 3 | 4 | 5 |
| Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. | | | | | X |
| Competency 3.1.2. Accesses and critically evaluates current literature related to their profession. | | | | | X |
| Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process. | | | | | X |
| Competency 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities. | | | | | X |
| COMPETENCE 3.2. Lifelong Learner | | | | | |
| Competency 3.2.1. Manages effectively individual study processes and career development. | | | | | X |
| Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career. | | | | | X |
| Competency 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process. | | | | | X |

| ECTS ALLOCATION | | | |
|-----------------------------|----------|------------------|------------------------|
| Activity | Quantity | Duration (Hours) | Total Workload (Hours) |
| Clinical Experience | 45 | 2 | 90 |
| Clerkship Guide Compilation | 20 | 1 | 20 |
| Independent Learning Hours | 45 | 1 | 45 |
| Assessment | 2 | 2.5 | 5 |
| Total Work Load | | | 160 |
| Total Work Load / 30 (h) | | | 5.3 |
| ECTS Credits | | | 5 |