



MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL JOINT MEDICAL PROGRAM

COURSE DESCRIPTIONS

MDN1701 Introduction to Cell and Cellular Replication

At the end of this committee, first-year students will gain knowledge about structure, function, and mechanisms in human biology at the molecular and cellular levels with a specific emphasis on cellular replication and genetics.

Learning Objectives: At the end of this committee, first-year students will;

1. Identify and describe the development, structure and function of cell and its subcomponents,
2. Evaluate the biochemical process of the cell,
3. Understand cell division process and related mechanisms,
4. Describe the genetics mechanisms and protein biosynthesis,
5. Understand genetic variation in individuals,
6. Describe the molecular mechanisms of genetic inheritance and genetic basis of inherited disease,
7. Acquire skills necessary to perform experimental applications.

Course Duration: 9 weeks

Th / Pr / Credits: 141 / 27 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1702 Cellular Metabolism and Transport

At the end of this committee, first-year students will gain knowledge about the metabolic pathways within the cell, structure of the cell membrane and transport mechanisms.

Learning Objectives: At the end of this committee, first-year students will;

1. Acquire knowledge related to structural characteristics, functions and regulation of enzymes and coenzymes,
2. Understand the ATP synthesis and its effect on metabolic pathways,
3. Describe the constituents and reactions of metabolic pathways within the cell,
4. Understand membrane structure and its function, physical principles of transport and signalling mechanisms both within and among the cells,
5. Acquire skills necessary to perform experimental applications.

Committee Duration: 7 weeks

Th / Pr / Credits: 74 / 11 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1703 Development and Organization of Human Body

At the end of this committee, first-year students will acquire knowledge about the development, organization, and function of different tissues to form organs. During this course students will also gain knowledge about the basic properties of microbiological universe and defense mechanism of the body.

Learning Objectives: At the end of this committee, first-year students will;

1. Define the structural elements of the tissues,
2. Identify the different tissues regarding their structures, organization, and functioning,
3. Acquire knowledge concerning the development and differentiation process of the organs,
4. Understand the classification and the basic properties of various microorganisms, and basic genetics of the bacteria,
5. Acquire skills necessary to perform experimental applications.

Course Duration: 8 weeks

Th / Pr / Credits: 104 / 15 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1704 Introduction to Nervous System and Human Behavior

At the end of this committee, first-year students will gain a general sight to the concept of the human body through the systems that constitute and define the main communicative network of the body. During this course students will also gain knowledge about the basic principles of human behavior and the main concepts of medical ethics.

Learning Objectives: At the end of this committee, first-year students will;

1. Define the structural elements of the nervous system,
2. Be able to identify the different tissues regarding their structures, organization, and functioning,
3. Acquire knowledge concerning the development and differentiation process of the nervous system organs and their function,
4. Acquire knowledge on human behavior,
5. Acquire skills necessary to perform experimental applications,
6. Explain evidences illustrating the existence of health inequalities and association between socio-economic position and health inequalities.

Course Duration: 10 weeks

Th / Pr / Credits: 133/ 13 / 12

ECTS: 12

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1705 Communication Skills & Introduction to Medical Interview

Learning Objectives: At the end of this course, first-year students will learn theoretical definitions and do practice on;

1. Communication variables in the context of physician-patient relationship and their relationship with healthcare service quality,
2. Verbal/Nonverbal communication in medical interviews,
3. The use of effective listening techniques in medical interviews and in the physician-patient and physician-patient relatives communication,
4. Communication barriers in medical interviews,

5. Group dynamics process and teamwork in medical research and healthcare,
6. Awareness and management of individual and collectivistic approaches in the comparison of different cultures and subcultures in medical practice,
7. Professional development and professional attitude in healthcare.

Course Duration: 1 academic year

Th / Pr / Credits: 10 / 15 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1706 Introduction to Student Research and Computer Skills

Main purpose of this one-year program is students' introduction to;

1. Scientific approach and acquisition,
2. Learning about the scientific method and sections of a research study,
3. Gaining basic computer skills in Excel, Word, and PowerPoint,
4. Learning to do data analysis.

As 'Student Research Activity', students are required to execute scientific research about a topic that they are interested under the theme: "Explore your universe".

Course Duration: 1 academic year

Th / Pr / Credits: 10 / 15 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN1707 Clinical Skills Laboratory & Introduction to First Aid Course

Learning Objectives: At the end of this course, first-year students will;

1. Describe why and where handwashing is required and the handwashing procedure,
2. Define the terms clean, sterile, contaminated, sterile supplies and cite situations where surgical asepsis is required,
3. Demonstrate hand hygiene procedure,
4. Wear and remove sterile gloves,
5. Describe and demonstrate the essential techniques of general physical examination,
6. Describe the different routes of medication administration,
7. Perform blood sampling.

Course Duration: 1 academic year

Th / Pr / Credits: 10 / 15 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

ENGL131 Medical English

Students develop and strengthen their understanding of medical terminology as it is used in a healthcare context. Language development will be facilitated through the use of case scenarios, dialogues and discussions related to body systems, medications, and medication administration as well as health care contexts. Through the use of reading for general meaning, word expansions and vocabulary building, internationally educated health care providers are able to acquire career-specific language development.

Course Duration: 1 academic year

Th / Pr / Credits: 47 / 0 / 4

ECTS: 4

Teaching Language: English

Category: Area Core Course

Offering Department/School: EMU Foreign Languages and English Preparatory School

HIST180 Atatürk's Principles and The History of Modern Turkey (for Turkish students)

To teach the history of modern Turkish history, Atatürk's Principles, and the history of Turkish renovation.

Course Duration: 1 academic year

Th / Pr / Credits: 56 / 0 / 4

ECTS: 4

Teaching Language: English

Category: University Core Course

Offering Department/School: EMU Atatürk Research and Application Center (ATAUM)

TFMS101 Turkish for Medical Students – I (for International students)

TFMS 101 is the first-year 1st term Turkish communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only international medical students studying within the framework of the Marmara University – Eastern Mediterranean University International Joint Medical Program.

Course Duration: 1 academic semester

Th / Pr / Credits: 56 / 20 / 4

ECTS: 4

Teaching Language: Turkish

Category: University Core Course

Offering Department/School: EMU Foreign Languages and English Preparatory School

TFMS102 Turkish for Medical Students – II (for International students)

TFMS 102 is the first-year 2nd term Turkish communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only international medical students studying within the framework of the Marmara University – Eastern Mediterranean University International Joint Medical Program.

Course Duration: 1 academic semester

Th / Pr / Credits: 56 / 20 / 4

ECTS: 4

Teaching Language: Turkish

Category: Area Elective Course

Offering Department/School: EMU Foreign Languages and English Preparatory School

AE-01 Phase 1: Elective I (for Turkish students)

All programs require students to enroll in courses called electives. Electives allow students to broaden their college education or deepen their understanding of a specific area while fulfilling the elective requirements of a program. Electives are a cluster of disciplines from which a student may select an elective. These electives permit students to choose courses within a discipline or department that fit their program. An academic advisor will help the student make an appropriate selection.

Course Duration: 1 academic year

Th / Pr / Credits: 56 / 20 / 4

ECTS: 4

Teaching Language: English

Category: Area Elective Course

Offering Department/School: EMU Faculty of Medicine

MDN2700 Cell and Tissue Injury I

At the end of this committee, second year students will be able to broaden their basic science knowledge to include the understanding of how certain alterations in bodily processes may manifest as disease and gain fundamental knowledge about the processes underlying human diseases, as the scientific foundation for developing clinical skills.

Learning Objectives: At the end of this committee, second year students will;

1. Describe using proper nomenclature, the etiology, pathogenesis, structural and functional changes at cellular and
2. tissue level,
3. Describe in detail what happens to cells and tissues in response to abnormal stimuli,
4. Explain the basic principles of human immune system as it relates to defense against disease (innate, humoral, cell
5. mediated),
6. Describe the principles of classifying infectious microorganisms and their pathogenic properties,
7. Gain knowledge about viruses and viral pathogenesis,
8. Gain knowledge about parasites and pathogenesis of parasitic diseases,
9. Identify major drug classes and prototype drug(s) for each class.

Course Duration: 7 weeks

Th / Pr / Credits: 103 / 12 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2701 Cell and Tissue Injury II

At the end of this committee, second year students will be able to broaden their basic science knowledge to understand how certain alterations in bodily processes may manifest as disease and gain fundamental knowledge about the processes underlying human diseases, as the scientific foundation for developing clinical skills.

Learning Objectives: At the end of this committee, second year students will;

1. Describe using proper nomenclature, the etiology, pathogenesis, structural and functional changes at cellular and
2. tissue level,
3. Describe in detail what happens to cells and tissues in response to abnormal stimuli,
4. Explain the basic principles of human immune system as it relates to defense against disease (innate, humoral, cell
5. mediated),
6. Describe the principles of classifying infectious microorganisms and their pathogenic properties,
7. Gain knowledge about bacteria and bacterial pathogenesis,
8. Gain knowledge about fungi and pathogenesis of fungal diseases,
9. Identify major drug classes and prototype drug(s) for each class.

Course Duration: 8 weeks

Th / Pr / Credits: 96 / 31 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2702 Hematopoietic System and Related Disorders

At the end of this committee, second year students will gain knowledge about the development, structure and physiology of the hematopoietic system and pathogenesis of the disorders related to system. They will also gain knowledge about the signs and symptoms of hematopoietic disorders, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, second year students will;

1. Understand the development and histology of the lymphoid organs and blood,
2. Identify the structure and function of the hematopoietic system,
3. Define the pathologic processes in hematological disorders,
4. Gain knowledge about microorganisms that affect the hematopoietic system and their pathogenesis in infectious process,
5. Gain knowledge about the risk groups, risk factors related to hematological disorders and preventive measures,
6. Gain knowledge about the signs and symptoms of these disorders,
7. Gain knowledge about the approach to diagnosis, and principles of treatment in hematological disorders,
8. Define the pharmacotherapy of hematological disorders,
9. Acquire skills necessary to perform experimental applications.

Course Duration: 9 weeks

Th / Pr / Credits: 87 / 13 / 8

ECTS: 8

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2703 Musculoskeletal, Integumentary Systems and Related Disorders

At the end of this committee, second year students will gain knowledge about the development, structure and physiology of the musculoskeletal system and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of musculoskeletal and integumentary disorders, related risk factors, prevention, diagnosis, principles of treatment, and rehabilitation.

Learning Objectives: At the end of this committee, second year students will;

1. Understand the development of the musculoskeletal and integumentary system,
2. Identify the structure and function of the musculoskeletal and integumentary system,
3. Define the pathologic processes in the musculoskeletal and integumentary disorders,
4. Gain knowledge about microorganism that affect the musculoskeletal and integumentary system and their pathogenesis in infectious process,
5. Gain knowledge about the risk groups, risk factors related to the musculoskeletal and integumentary disorders and preventive measures,
6. Gain knowledge about the signs and symptoms of these disorders,
7. Gain knowledge about the approach to diagnosis, principles of treatment and rehabilitation of musculoskeletal disorders,
8. Define the pharmacotherapy of cardiovascular disorders,
9. Acquire skills necessary to perform experimental applications.

Course Duration: 10 weeks

Th / Pr / Credits: 122 / 29 / 11

ECTS: 11

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2704 Respiratory System and Related Disorders

At the end of this committee, second year students will gain knowledge about the development, structure and physiology of the respiratory system and pathogenesis of the disorders related to the system. They will also gain knowledge about the signs and symptoms of pulmonary diseases, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, second year students will;

1. Review the development and histology of the respiratory system,
2. Describe the mechanism of breathing and identify the movement, solubility, and transport of gas molecules,
3. Understand the factors impairing the normal function of the respiratory system and their pathological reflections on the occurrence of the disease,
4. Gain knowledge about microorganisms that affect the respiratory system and respiratory tract infections,
5. Gain knowledge about the risk groups, risk factors related to pulmonary diseases and preventive measures,
6. Gain knowledge about the major signs and symptoms of the pulmonary diseases,
7. Gain knowledge about the approach to diagnosis, and principles of treatment in pulmonary diseases,
8. Comprehend the hazards of smoking,
9. Define the pharmacotherapy of pulmonary diseases,
10. Acquire skills necessary to perform experimental applications.

Course Duration: 8 weeks

Th / Pr / Credits: 115 / 16 / 10

ECTS: 10

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2705 Basic Clinical Skills

The goals of this course include;

1. To provide clinical context to the basic science curriculum,
2. Procedural skills such as injections, suturing, etc.,
3. To acquire and demonstrate attitudes necessary for the achievement of high standards of medical practice in relation to both the provision of care of individuals and populations,
4. To acquire the skills of independent and self-directed learning and a commitment towards the maintenance of clinical competence through life-long learning, professional and personal development,
5. To acquire basic procedural skills by utilizing Clinical Skills Laboratory with a competency-based approach and in conformity with humanistic medical education principles,
6. To introduce students to the History Taking and Physical Examination of a patient (combining with clinical skills program and simulated patient interviews).

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2706 Human in Medicine

This course consists of student workshops/studies in medical humanities subjects. It is a program having three sections in it: Ethics, Art and Medicine, and Social Concepts.

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN2707 Evidence Based Medicine

This course includes the “Research Proposal Workshop” which is an evidence-based learning program consisting of the subjects like research planning, basic medical statistics, introduction to epidemiology, literature reading, etc.

As ‘Student Research Activity’, students are required to execute scientific research about a topic that they are interested under the theme: “Health and Community”.

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

TFMS201 Turkish for Medical Students – III (for International students)

TFMS 201 is the second-year Turkish communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only international medical students studying within the framework of the Marmara University – Eastern Mediterranean University International Joint Medical Program.

Course Duration: 1 academic year

Th / Pr / Credits: 125 / 40 / 4

ECTS: 4

Teaching Language: Turkish

Category: Area Elective Course

Offering Department/School: EMU Foreign Languages and English Preparatory School

AE-02 Phase 1: Elective II (for Turkish students)

All programs require students to enroll in courses called electives. Electives allow students to broaden their college education or deepen their understanding of a specific area while fulfilling the elective requirements of a program. Electives are a cluster of disciplines from which a student may select an elective. These electives permit students to choose courses within a discipline or department that fit their program. An academic advisor will help the student make an appropriate selection.

Course Duration: 1 academic year

Th / Pr / Credits: 56 / 20 / 4

ECTS: 4

Teaching Language: English

Category: Area Elective Course

Offering Department/School: EMU Faculty of Medicine

MDN3700 Cardiovascular System and Related Disorders

With an interdisciplinary approach, to learn about the morphology and functions of the cardiovascular system, about the principles of circulation and to correlate the pathophysiological mechanisms with the diseases of the cardiovascular system.

Learning Objectives: At the end of this committee, third year students will;

1. To learn the morphology of the heart and the vessels,
2. To describe the basic mechanisms of circulation,
3. To define and discuss the factors impairing the normal function of the cardiovascular system and their pathological reflections on the occurrence of the diseases,
4. To learn the major symptoms and signs of the cardiovascular diseases and the principles of therapeutic approaches,
5. To learn the methods of the prevention from the cardiovascular diseases and its epidemiological importance as related with the mortality and morbidity in the population.

Course Duration: 7 weeks

Th / Pr / Credits: 113 / 6 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN3701 Gastrointestinal System, Metabolism and Related Disorders

At the end of this committee, third year students will gain knowledge about the development, structure and physiology of the gastrointestinal system and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of gastrointestinal system disorders, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, third year students will;

1. Understand and review the development, histology, and structure of the gastrointestinal system,
2. Understand the working mechanism of gastrointestinal function and its regulation,
3. Comprehend gastrointestinal system as a processor converting foods to building stones of energy,
4. Define the pathologic processes in gastrointestinal system disorders,
5. Gain knowledge about microorganisms that affect the gastrointestinal system and its infections,
6. Gain knowledge about the risk factors related to gastrointestinal system disorders and preventive measures,
7. Gain knowledge about the major signs and symptoms of these disorders,
8. Gain knowledge about the approach to diagnosis, and principles of treatment in gastrointestinal disorders and comprehend laboratory investigation as a part of differential diagnosis.

Course Duration: 10 weeks

Th / Pr / Credits: 133 / 29 / 10

ECTS: 10

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN3702 Nervous System and Related Disorders

At the end of this committee, third year students will gain knowledge about the development, structure and physiology of the nervous system and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of nervous system disorders, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, third year students will;

1. Review the structure and function of the nervous system,
2. Define the pathologic processes in neurological disorders,
3. Gain knowledge about microorganism that affect the nervous system and associated infections,
4. Gain knowledge about the risk factors related to neurological disorders,
5. Gain knowledge about the signs and symptoms of these disorders gain knowledge about the prevention of nervous system disorders, approach to diagnosis, principles of treatment and rehabilitation.

Course Duration: 7 weeks
Th / Pr / Credits: 108 / 13 / 9

ECTS: 9
Category: Faculty Core Course

Teaching Language: English

Offering Department/School: EMU Faculty of Medicine

MDN3703 Growth, Development, Mental Health and Related Disorders

At the end of this committee, third year students will gain knowledge about the structure, functions and the pathogenesis of the disorders related to endocrine system. During this committee students will gain a comprehensive view on the health problems of the certain periods of the human life cycle such as childhood, adolescents, and elderly with a specific emphasis on the growth, development, and mental health. They will also gain knowledge about the signs and symptoms of endocrine disorders, psychiatric disorders, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, third year students will;

1. Review the development, histology, and structure of the endocrine system,
2. Understand the principles of endocrine homeostasis and hormone action, define the pathologic processes in endocrine and mental disorders,
3. Get knowledge about growth, development, and monitoring in childhood,
4. Gain knowledge about the risk factors and preventive measures related to endocrine and mental disorders,
5. Gain knowledge about the major signs and symptoms of endocrine and mental disorders, explain the main determinants of health,
6. Explain the importance and the effects of social, environmental and lifestyle factors on mental and physical health, gain knowledge about the approach to diagnosis and principles of treatment in endocrine and mental disorders.

Course Duration: 7 weeks
Th / Pr / Credits: 133 / 3 / 9

ECTS: 9
Category: Faculty Core Course

Teaching Language: English

Offering Department/School: EMU Faculty of Medicine

MDN3704 Urinary and Reproductive System and Related Disorders

At the end of this committee, third year students will gain knowledge about the development, structure and physiology of the urinary and reproductive system, and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of urinary and reproductive system disorders, related risk factors, prevention, diagnosis, and principles of treatment.

Learning Objectives: At the end of this committee, third year students will;

1. Review the development, histology, and physiology of the urinary system,
2. Review the development, histology, and physiology of male and female reproductive systems,
3. Define the pathologic processes in urinary and reproductive system disorders, gain knowledge about microorganisms that affect the genitourinary system and associated infections,
4. Gain knowledge about the risk factors related to genitourinary system disorders, gain knowledge about the signs and symptoms of these disorders,
5. Gain knowledge about the prevention of genitourinary system disorders, approach to diagnosis, principles of treatment, define the major concepts of reproductive health, including family planning and safe- motherhood.

Course Duration: 9 weeks
Th / Pr / Credits: 141 / 30 / 10

ECTS: 10

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN3705 Basic Medical Practice

The goals of this course include;

1. To acquire and demonstrate attitudes necessary for the achievement of high standards of medical practice in service of individuals and community,
2. To acquire basic procedural skills with a competency-based approach and in conformity with humanistic medical education principles,
3. To recognize health problems of the community,
4. To recognize medical practice at primary care level,
5. To acquire knowledge and skill in dealing with difficult patients, sensitive issues, and difficult topics regarding communication skills.

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN3706 Clinical Skills Lab

This course includes;

1. Physical examination of the systems such as respiratory, cardiovascular systems, neurologic and gynecologic examinations, etc.,
2. Clinical skills such as blood pressure measurement, nasogastric tube insertion.

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

MDN3707 Student Research Activity

This course includes supporting courses about research planning and data analysis.

As ‘Student Research Activity’, students are required to execute scientific research about a topic that they are interested under the theme: “Patients and Diseases”.

Course Duration: 1 academic year

Th / Pr / Credits: 35 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: EMU Faculty of Medicine

TFMS301 Turkish for Medical Students – IV (for International students)

TFMS 301 is the third-year Turkish communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only international medical students studying within the framework of the Marmara University – Eastern Mediterranean University International Joint Medical Program.

Course Duration: 1 academic year

Th / Pr / Credits: 125 / 40 / 4

ECTS: 4

Teaching Language: Turkish

Category: Area Elective Course

Offering Department/School: EMU Foreign Languages and English Preparatory School

AE-03 Phase 1: Elective III (for Turkish students)

All programs require students to enroll in courses called electives. Electives allow students to broaden their college education or deepen their understanding of a specific area while fulfilling the elective requirements of a program. Electives are a cluster of disciplines from which a student may select an elective. These electives permit students to choose courses within a discipline or department that fit their program. An academic advisor will help the student make an appropriate selection.

Course Duration: 1 academic year

Th / Pr / Credits: 56 / 20 / 4

ECTS: 4

Teaching Language: English

Category: Area Elective Course

Offering Department/School: EMU Faculty of Medicine

MDN4701 Professionalism and Counseling Program – I

Learning Objectives:

1. Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions,
2. Building effective communication with patients and their relatives, colleagues, agencies, media/press/Teaching, Managing, Patient advocate/Observation and being open to work in a team,
3. Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities,
4. Understanding of social and cultural values and their place in health system,
5. Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional awareness and openness to lifetime development,
6. Understanding and criticizing the national and international health politics and management processes in health,
7. Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback,
8. Understanding of the personal and professional development opportunities and making future plans.

Course Duration: 8 weeks

Th / Pr / Credits: 32 / 15 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4702 Ophthalmology

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with ophthalmology,
2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,

6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 2 weeks

Th / Pr / Credits: 15 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4703 Otorhinolaryngology

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with otorhinolaryngology,
2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 2 weeks

Th / Pr / Credits: 15 / 30 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4704 Dermatology

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with dermatology,
2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 3 weeks

Th / Pr / Credits: 30 / 30 / 4

ECTS: 4

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4705 Musculoskeletal System Health and Related Disorders

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with musculoskeletal system health and related disorders,

2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 6 weeks

Th / Pr / Credits: 60 / 90 / 10

ECTS: 10

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4706 Basic Surgical Disorders and Invasive Procedures

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with surgical disorders in pediatric and adult periods,
2. Gaining competencies in basic clinical and invasive skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 7 weeks

Th / Pr / Credits: 60 / 90 / 10

ECTS: 10

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN4707 Internal Medicine Block

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge about diseases related with cardiology, chest medicine, hematology, oncology, endocrinology, gastroenterology, and nephrology,
2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 12 weeks

Th / Pr / Credits: 120 / 180 / 22

ECTS: 22

Teaching Language: English

Category: Faculty Core Course

<i>Offering Department/School: MU Faculty of Medicine</i>		
AE-04	Phase 2: Elective I	
Area Elective course to be chosen from the Phase 2 Elective courses pool.		
<i>Th / Pr / Credits: 15 / 75 / 3</i>	<i>ECTS: 3</i>	<i>Teaching Language: English</i>
	<i>Category: Area Elective Course</i>	
<i>Offering Department/School: MU Faculty of Medicine</i>		
AE-05	Phase 2: Elective II	
Area Elective course to be chosen from the Phase 2 Elective courses pool.		
<i>Th / Pr / Credits: 15 / 75 / 3</i>	<i>ECTS: 3</i>	<i>Teaching Language: English</i>
	<i>Category: Area Elective Course</i>	
<i>Offering Department/School: MU Faculty of Medicine</i>		
MDN5701	Professionalism and Counseling Program – II	
Learning Objectives of this Clerkship Program:		
1. Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions, 2. Building effective communication with patients and their relatives, colleagues, agencies, media/press/Teaching, Managing, Patient advocate/Observation and being open to work in a team, 3. Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities, 4. Understanding of social and cultural values and their place in health system, 5. Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional awareness and openness to lifetime development, 6. Understanding and criticizing the national and international health politics and management processes in health, 7. Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback, 8. Understanding of the personal and professional development opportunities and making future plans.		
Course Duration: 6 weeks		
<i>Th / Pr / Credits: 10 / 8 / 1</i>	<i>ECTS: 1</i>	<i>Teaching Language: English</i>
	<i>Category: Faculty Core Course</i>	
<i>Offering Department/School: MU Faculty of Medicine</i>		
MDN5702	Forensic Medicine	
Learning Objectives of this Clerkship Program:		
1. Approach to a patient who is alleged to have suffered trauma, 2. Forensic case examination/Preparation of forensic report 3. Istanbul protocol/Approach to torture and ill-treatment, 4. Concept of death/Examination of the dead 5. Forensic autopsy/Relevant legal regulations, 6. Post-mortem changes/Determination of post-mortem time interval 7. Blunt traumatic injuries/Sharp tool wounds,		

8. Mechanics of injury/Electrical and thermal injuries
9. Approach to a patient who is alleged to have been poisoned
10. Gunshot injuries, Alcohol and forensic medicine
11. Sedatives, narcotics and stimulants, Sudden unexpected natural deaths
12. Approach to neonatal deaths, Child deaths (Sudden infant death, Shaken baby syndrome, Factitious disorder of the caregiver)
13. Approach to a child who is alleged to have been neglected and abused
14. Physical/sexual abuse of a child, Deaths due to asphyxia
15. Cases where the airways are mechanically closed
16. Corpses removed from water/CO poisoning, Determining legal capacity
17. Determining criminal responsibility, Disability assessment/Disability report
18. Doctor's duties and responsibilities, Approach to medical error claims
19. Approach to crimes against sexual immunity, Violence against healthcare workers

Course Duration: 2 weeks

Th / Pr / Credits: 21 / 12 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5703 Evidence Based Medicine

Learning Objectives of this Clerkship Program:

At the end of the course the students will:

1. Gain knowledge concerning the philosophy of evidence-based medicine,
2. Acquire knowledge and skills about accessing and critically evaluating the evidence,
3. Be able to define the hierarchy of evidence obtained from different study types,
4. Be able to calculate and discuss the measures derived from different study types,
5. Define the criteria about causality,
6. Gain knowledge concerning the method used in trails and acquire skills for critically appraising RCTs,
7. Gain knowledge concerning the method used in studies of harm and acquire skills for critically appraising observational studies,
8. Gain knowledge about the validity and reliability studies and acquire skills for critically appraising validation studies,
9. Gain knowledge about systematic reviews and acquire skills for critically appraising meta-analysis,
10. Be able to define the concepts used in life table and survival analysis,
11. Be able to evaluate the evidence concerning prognosis and gain skills concerning the use of evidence about prognosis while making treatment choices,
12. Gain knowledge about bias and random error,
13. Be able to evaluate confidence intervals,
14. Be able to formulate the Ho and H1 hypothesis, define type 1 and 2 errors, power and interpret the p value.

Course Duration: 2 weeks

Th / Pr / Credits: 20 / 16 / 1

ECTS: 1

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5704 Phase 2: Pediatrics

Learning Objectives of this Clerkship Program:

1. Obtain a routine age-appropriate history and perform physical examination in children of all ages,
2. Describe the clinical features of common acute and chronic pediatric conditions; diagnose and manage these conditions,
3. Interpret the results of common diagnostic tests with an emphasis on age related norms,
4. List the differential diagnosis for common symptoms or patient presentations such as fever, cough, vomiting, jaundice, hematuria, proteinuria, arrhythmia, syncope, headache abdominal pain, lymphadenopathy,
5. Recognize acute life-threatening conditions like shock, dehydration and intoxication and initiate basic life support and appropriate initial therapy.

Course Duration: 7 weeks

Th / Pr / Credits: 99 / 122 / 14

ECTS: 14

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5705 Obstetrics and Gynecology

Learning Objectives of this Clerkship Program:

1. To define reproductive health, reproductive rights, life-long approach and the principles for fertility regulation and to evaluate related laws and regulations and the applications in the health system,
2. To perform reproductive/sexual health (RSH) interview with the patient and to use counselling principles,
3. To define female and male R/S system structures, functions and dysfunctions and psychiatric and urologic dimensions of the sexuality, to explain current therapeutic approaches and applications,
4. To define sexual abuse and violence, to recognize their symptoms and to write legal report; to explain current therapeutic approaches,
5. To evaluate and manage the basic urological symptoms,
6. To perform basic urological examination,
7. To recognize and manage the urological emergencies until transport of the patient,
8. To suggest screening methods for urological cancer and evaluate the results for early detection,
9. To diagnose urogenital genital infections and urinary tract stone disease, suggest necessary precautions.

Course Duration: 5 weeks

Th / Pr / Credits: 32 / 88 / 9

ECTS: 9

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5706 Introduction to Reproductive Health and Urogenital System Disorders

Learning Objectives of this Clerkship Program:

1. To define reproductive health, reproductive rights, life-long approach and the principles for fertility regulation and to evaluate related laws and regulations and the applications in the health system,
2. To perform reproductive/sexual health (RSH) interview with the patient and to use counselling principles,
3. To define female and male R/S system structures, functions and dysfunctions and psychiatric and urologic dimensions of the sexuality, to explain current therapeutic approaches and applications,

4. To define sexual abuse and violence, to recognize their symptoms and to write legal report; to explain current therapeutic approaches,
5. To evaluate and manage the basic urological symptoms,
6. To perform basic urological examination,
7. To recognize and manage the urological emergencies until transport of the patient,
8. To suggest screening methods for urological cancer and evaluate the results for early detection,
9. To diagnose urogenital genital infections and urinary tract stone disease, suggest necessary precautions.

Course Duration: 3 weeks

Th / Pr / Credits: 40 / 50 / 7

ECTS: 7

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5707 Nervous System & Mental Health and Related Disorders

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with nervous system-mental health and related disorders,
2. Gaining competencies in basic clinical skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly.

Course Duration: 6 weeks

Th / Pr / Credits: 60 / 90 / 11

ECTS: 11

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5708 Thoracic Surgery

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with thoracic surgical disorders in pediatric and adult periods,
2. Gaining competencies in basic clinical and invasive skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 1 week

Th / Pr / Credits: 10 / 15 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5709 Cardiovascular Surgery

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with cardiovascular surgical disorders in pediatric and adult periods,
2. Gaining competencies in basic clinical and invasive skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 1 week

Th / Pr / Credits: 10 / 15 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5710 Plastic and Reconstructive Surgery

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with plastic and reconstructive surgical disorders in pediatric and adult periods,
2. Gaining competencies in basic clinical and invasive skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 1 week

Th / Pr / Credits: 10 / 15 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN5711 Pediatric Surgery

Learning Objectives of this Clerkship Program:

1. Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with pediatric surgical disorders,
2. Gaining competencies in basic clinical and invasive skills,
3. Understanding patient, disease and health care process management,
4. Effective communication with patients, their relatives and health team; being open to collaboration and teamwork,
5. Taking care of professional, societal and individual values, and develop behaviors accordingly,
6. Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies.

Course Duration: 1 week

Th / Pr / Credits: 10 / 15 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

AE-06 Phase 2: Elective III

Area Elective course to be chosen from the Phase 2 Elective courses pool.

Th / Pr / Credits: 15 / 75 / 3

ECTS: 3

Teaching Language: English

Category: Area Elective Course

Offering Department/School: MU Faculty of Medicine

AE-07 Phase 2: Elective IV

Area Elective course to be chosen from the Phase 2 Elective courses pool.

Th / Pr / Credits: 15 / 75 / 3

ECTS: 3

Teaching Language: English

Category: Area Elective Course

Offering Department/School: MU Faculty of Medicine

MEDN6701 Professionalism and Counseling Program – III

Learning Objectives:

1. Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions,
2. Building effective communication with patients and their relatives, colleagues, agencies, media/press/Teaching, Managing, Patient advocate/Observation and being open to work in a team,
3. Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities,
4. Understanding of social and cultural values and their place in health system,
5. Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional awareness and openness to lifetime development,
6. Understanding and criticizing the national and international health politics and management processes in health,
7. Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback,
8. Understanding of the personal and professional development opportunities and making future plans.

Course Duration: 1 academic year

Th / Pr / Credits: 3/ 15 / 1

ECTS: 1

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6702 Phase 3: Internal Medicine

2 months of internship including theoretical courses and practices in Internal Medicine department of the hospital.

Course Duration: 8 weeks

Th / Pr / Credits: 50 / 200 / 11

ECTS: 11

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6703 Phase 3: Pediatrics

2 months of internship including theoretical courses and practices in Pediatrics department of the hospital.

Course Duration: 8 weeks

Th / Pr / Credits: 50 / 200 / 11

ECTS: 11

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MEDN6704 Emergency Medicine

2 months of internship including theoretical courses and practices in Emergency department of the hospital.

Course Duration: 8 weeks

Th / Pr / Credits: 50 / 200 / 11

ECTS: 11

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6705 Medical Pharmacology

Learning Objectives:

- 1.Describes the disease to the patient and explains both pharmacological and non-pharmacological treatment methods.
2. Interpret the pharmacodynamic and pharmacokinetic properties of the drugs to be used in the relevant module.
3. By evaluating the principles of rational drug use, predicts evidence-based treatment plans, adverse drug reactions, and drug/food interactions; analyzes risk-benefit; and selects drugs that are effective, safe, and suitable for the patient.
- 4.Informs the patient about their medications, including how and when to use them, and warns about potential side effects.
5. Schedules follow-up appointments and informs the patient about any information that needs to be collected before the next visit.
6. Writes prescriptions according to the rules of prescribing, considering their legal and ethical aspects.
7. Manages drug use in special populations, including the elderly, children, pregnant women, lactating women, and patients with organ failure.

Course Duration: 2 weeks

Th / Pr / Credits: 4 / 56 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6706 Psychiatry

Learning Objectives:

1. Learning the approach to depression,
2. Learning the approach to stress and anxiety,
3. Learning drug treatments, obtaining basic information about psychotherapies, learning psychiatry outpatient clinic and service practices.
4. Basic clinical skills
5. Recognizing and treating depression
6. Recognizing and treating anxiety
7. Basic Principles of Psychiatry
8. Guidance for mental illnesses

Course Duration: 2 weeks
Th / Pr / Credits: 16 / 44 / 2

ECTS: 2

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6707 Obstetrics and Gynaecology

Learning Objectives:

1. Perform pregnancy examination,
2. To know Antenatal care
3. To know antenatal screening tests
4. To know labor process
5. To know postpartum care
6. To know gynaecological symptoms
7. To know how to make gynaecological examination
8. To diagnose infertility
9. To know etiology of infertility
10. To know types of gynaecological malignancies
11. To know cervical cancer screening.

Course Duration: 4 weeks
Th / Pr / Credits: 8 / 112 / 5

ECTS: 5

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6708 Public Health

6 weeks of internship including theoretical courses in campus; and practices in Public Health Centers, Public Health Laboratories, schools, rehabilitation centers, pharmacies, and related governmental units.

Course Duration: 6 weeks
Th / Pr / Credits: 30 / 90 / 4

ECTS: 4

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6709 Primary Care – Family Medicine

3 weeks of internship in Family Health Centers.

Course Duration: 3 weeks
Th / Pr / Credits: 20 / 100 / 4

ECTS: 4

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

MDN6710 Research/Project

Students are expected to determine on a research subject, plan and prepare its proposal, and carry out data collection and analysis under the supervision of a faculty member and a research assistant.

Course Duration: 7 weeks

Th / Pr / Credits: 20 / 100 / 3

ECTS: 3

Teaching Language: English

Category: Faculty Core Course

Offering Department/School: MU Faculty of Medicine

AE-05 Phase 3: Elective I

Area Elective course to be chosen from the Phase 3 Elective courses pool.

Th / Pr / Credits: 0 / 120 / 3

ECTS: 3

Teaching Language: English

Category: Area Elective Course

Offering Department/School: MU Faculty of Medicine

AE-06 Phase 3: Elective II

Area Elective course to be chosen from the Phase 3 Elective courses pool.

Th / Pr / Credits: 0 / 120 / 3

ECTS: 3

Teaching Language: English

Category: Area Elective Course

Offering Department/School: MU Faculty of Medicine