Course Descriptions - I - English: All compulsory courses offered by the department of the program

Type the catalog course description of each course in English in the following order: course content, course credits, prerequisites, Abbreviated Title, Category of the course, teaching language, and keywords. The information supplied will be copied and pasted to the catalog.

- Course code: Replace CODEXXX with the course code
- Course title: Replace Full Course Title of the course with the course title.
- Course Outline: Replace Course outline with statements of the course description outline. Avoid using multiple paragraphs. Do not keep the text "Course outline" as a heading.
- Credits: Replace L, L, T and X with corresponding numbers for lecture, lab, tutorial and total course credit, respectively.
- ECTS: Write total ECTS of the course
- Prerequisites: Delete "None" and replace XXXXXX with the corresponding course code.
- Course Category: XXXXXXXX with any of "University Core", "Faculty 'School Core", "Area Core", "Area Elective", or "University Elective"

 Abbreviated title: This is going to be used in preparation of transcripts or registration forms. Replace XXXXXXXXXXXXXXXX with a shorter version of the full title.
- Teaching language: Replace XXXXX with the teaching language of the course
- Keywords: Replace XXXXXX, XXXXXX with words other than the ones available in the title and course outline which helps to identify the course. At least 5 terms.
- Offering Department/School: Write the department that offers this course.

The total text length should not exceed 2000 characters.

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, 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

Credits: (105/12/0) 9 Prerequisites: None FCTS: 9

Abbreviated Title: Cell and Cellular Replication Category: FC Course Teaching Language: English

Keywords: Cell Replication

Offering Department/School: EMU Faculty of Medicine

MFDN120 **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, 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

Credits: (106/12/0) 9 Prerequisites: None

Abbreviated Title: Cellular Metabolism and Transport Category: FC Course Teaching Language: English

Keywords: Metabolism, Transport

Offering Department/School: EMU Faculty of Medicine

Development and Organization of Human Body MEDN130

At the end of this course, 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 defence 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
- acquire skills necessary to perform experimental applications

Course Duration: 8 weeks Credits: (107/11/0) 10

Credits: (107/11/0) **10** Prerequisites: None ECTS: 10

Abbreviated Title: Development and Organization of Body Category: FC Course Teaching Language: English

Keywords: Development, Organization

Offering Department/School: EMU Faculty of Medicine

MEDN140 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 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

Credits: (124/18/0) 11 Prerequisites: None ECTS: 11

Abbreviated Title: Nervous System and Behavior Category: FC Course Teaching Language: English

Keywords: Nervous System, Behavior

Offering Department/School: EMU Faculty of Medicine

MEDN161 Clinical Skills Laboratory & Introduction to First Aid Course

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

- Describe why and where hand-washing is required and the hand-washing procedure.
 - Define the terms clean, sterile, contaminated, sterile supplies and cite situations where surgical asepsis is required.
 - Demonstrate hand hygiene procedure.
 - · Wear and remove sterile gloves.
 - Describe and demonstrate the essential techniques of general physical examination
 - Describe the different routes of medication administration.
 - Perform blood sampling

Course Duration: 1 academic year

Credits: (20/30/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS I Category: FC Course Teaching Language: English

Keywords: Clinical Skills, First Aid

Offering Department/School: EMU Faculty of Medicine

6. MEDN162 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

- Communication variables in the context of physician-patient relationship and their relationship with healthcare service quality
- Verbal/Nonverbal communication in medical interviews
- The use of effective listening techniques in medical interviews and in the physician-patient and physician-patient relatives communication
- Communication barriers in medical interviews
- Group dynamics process and teamwork in medical research and healthcare
- Awareness and management of individual and collectivistic approaches in the comparison of different cultures and subcultures in medical practice
- Professional development and professional attitude in healthcare

Course Duration: 1 academic year

Credits: (15/15/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS I Category: FC Course Teaching Language: English

Keywords: Communication Skills, Medical Interview
Offering Department/School: EMU Faculty of Medicine

MEDN163 Introduction to Student Research and Computer Skills

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

- Scientific approach and acquisition
- Learning about the scientific method and sections of a research study

- · Gaining basic computer skills in Excel, Word, and PowerPoint
- Learning to do data analysis.

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

Course Duration: 1 academic year

Credits: (25/30/0) 3 Prerequisites: None ECTS:3
Abbreviated Title: ICS I Category: FC Course Teaching Language: English

Keywords: Student Research, Computer Skills
Offering Department/School: EMU Faculty of Medicine

8. MEDN210 Cell and Tissue Injury I

At the end of this course, 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 course, second year students will,

- 1. describe using proper nomenclature, the etiology, pathogenesis, structural and functional changes at cellular and tissue level;
- describe in detail what happens to cells and tissues in response to abnormal stimuli;
- 3. explain the basic principles of human immune system as it relates to defense against disease (innate, humoral, cell mediated);
- 4. describe the principles of classifying infectious microorganisms and their pathogenic properties;
- 5. gain knowledge about viruses and viral pathogenesis;
- 6. gain knowledge about parasites and pathogenesis of parasitic diseases;

identify major drug classes and prototype drug(s) for each class.

Course Duration: 7 weeks Credits: (101/15/0) 9

Credits: (101/15/0) 9 Prerequisites: None ECTS: 9

Abbreviated Title: Cell and Tissue Category: FC Course Teaching Language: English

Keywords: Cell, Tissue

Offering Department/School: EMU Faculty of Medicine

9. MEDN220 Cell and Tissue Injury II

At the end of this course, 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 course, second year students will,

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

Course Duration: 8 weeks

Credits: (90/31/0) 9 Prerequisites: None ECTS: 9

Abbreviated Title: Cell and Tissue II Category: FC Course Teaching Language: English

Keywords: Cell, Tissue

Offering Department/School: EMU Faculty of Medicine

10. MEDN230 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 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

Credits: (87/10/0) 8 Prerequisites: None ECTS: 8

Abbreviated Title: Hematopoietic System Category: FC Course Teaching Language: English

Keywords: Hematology, Disorders

Offering Department/School: EMU Faculty of Medicine

11. MEDN240 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 intugumentary system
- 2. identify the structure and function of the musculoskeletal and integumentary system
- 3. define the pathologic processes in the musculoskeletal and intugumentary disordes
- 4. gain knowledge about microorganism that affect the musculoskeletal and intugumentary system and their pathogenesis in infectious process
- 5. gain knowledge about the risk groups, risk factors related to the musculoskeletal and intugumentary disorders and preventive measures
- 6. gain knowledge about the signs and symptoms of these disorders
- 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

Credits: (118/32/0) 11 Prerequisites: None ECTS: 11

Abbreviated Title: Musculoskeletal System Category: FC Course Teaching Language: English

Keywords: Musculoskeletal System

Offering Department/School: EMU Faculty of Medicine

12. MEDN250 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 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
- 3. of gas molecules
- 4. understand the factors impairing the normal function of the respiratory system and their
- 5. pathological reflections on the occurence of the disease
- 6. gain knowledge about microorganisms that affect the respiratory system and respiratory
- tract infections
- 8. gain knowledge about the risk groups, risk factors related to pulmonary diseases and
- 9. preventive measures
- 10. gain knowledge about the major signs and symptoms of the pulmonary diseases
- 11. gain knowledge about the approach to diagnosis, and principles of treatment in pulmonary
- 12. diseases
- 13. comprehend the hazards of smoking
- 14. define the pharmacotherapy of pulmonary diseases
- 15. acquire skills necessary to perform experimental applications

Course Duration: 8 weeks

Credits: (117/18/0) **10** Prerequisites: None ECTS: 10

Abbreviated Title: Respiratory System Category: FC Course Teaching Language: English

Keywords: Respiratory System

Offering Department/School: EMU Faculty of Medicine

13. MEDN261 Basic Clinical Skills

The goals of this course include:

- To provide clinical context to the basic science curriculum.
 - Procedural skills such as injections, suturing, etc.
- 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.
- 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.
- To acquire basic procedural skills by utilizing Clinical Skills Laboratory with a competency-based approach and in conformity with humanistic medical education principles.

 To introduce students to the History Taking and Physical Examination of a patient (combining with clinical skills protam and simulated patient interviews).

Course Duration: 1 academic year

Credits: (30/35/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS 2 Category: FC Course Teaching Language: English

Keywords: Basic Clinical Skills

Offering Department/School: EMU Faculty of Medicine

14. MEDN262 Human in Medicine

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

Course Duration: 1 academic year

Credits: (30/25/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS 2 Category: FC Course Teaching Language: English

Keywords: Human in Medicine

Offering Department/School: EMU Faculty of Medicine

15. MEDN263 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 a scientific research about a topic that they are interested under the theme: "Health and Community".

Course Duration: 1 academic year

Credits: (30/35/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS 2 Category: FC Course Teaching Language: English

Keywords: Evidence Based Medicine

Offering Department/School: EMU Faculty of Medicine

16. MEDN310 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:

- To learn the morphology of the heart and the vessels
- To describe the basic mechanisms of circulation
- To define and discuss the factors impairing the normal function of the cardiovascular system and their pathological reflections on the occurrence of the diseases
- To learn the major symptoms and signs of the cardiovascular diseases and the principles of therapeutic approaches
 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

Credits: (119/12/0) 9 Prerequisites: None ECTS: 9

Abbreviated Title: Cardiovascular System Category: FC Course Teaching Language: English

Keywords: Cardiovascular System

Offering Department/School: EMU Faculty of Medicine

17. MEDN320 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 student will,

- understand and review the development, histology and structure of the gastrointestinal system,
- understand the working mechanism of gastrointestinal function and its regulation,
- comprehend gastrointestinal system as a processor converting foods to building stones of energy,
- define the pathologic processes in gastrointestinal system disorders,
- gain knowledge about microorganisms that affect the gastrointestinal system and its infections,
- gain knowledge about the risk factors related to gastrointestinal system disorders and preventive measures,
- gain knowledge about the major signs and symptoms of these disorders

• 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 Credits: (139/34/0) 10

Abbreviated Title: Gastrointestinal System Category: FC Course Teaching Language: English

Keywords: Gastrointestinal system

Offering Department/School: EMU Faculty of Medicine

MEDN330 Nervous System and Related Disorders

At the end of this course, 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 course, third year students will,

- review the structure and function of the nervous system.
- define the pathologic processes in neurological disorders
- gain knowledge about microorganism that affect the nervous system and associated infections
- gain knowledge about the risk factors related to neurological disorders
- 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

19.

Credits: (119/13/0) 9 Prerequisites: None ECTS: 9

Abbreviated Title: Nervous System Category: FC Course Teaching Language: English

Keywords: Nerves, nervous system

Offering Department/School: Faculty of Medicine

MEDN340 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 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 course, third year students will,

- review the development, histology and structure of the endocrine system,
- understand the principles of endocrine homeostasis and hormone action, define the pathologic processes in endocrine and mental disorders,
- get knowledge about growth, development and monitoring in childhood,
- gain knowledge about the risk factors and preventive measures related to endocrine and mental disorders.
- gain knowledge about the major signs and symptoms of endocrine and mental disorders, explain the main determinants of health,
- explain the importance and the effects of social, environmental and life style 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

Credits: (137/9/0) 10 Prerequisites: None ECTS: 10
Abbreviated Title: Growth, Development Category: FC Course Teaching Language: English

Keywords: Mental, Growth

Offering Department/School: EMU Faculty of Medicine

20. MEDN350 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 course, third year students will,

- review the development, histology and physiology of the urinary system,
- review the development, histology and physiology of male and female reproductive systems,
- define the pathologic processes in urinary and reproductive system disorders, gain knowledge about microorganisms that affect the genitourinary system and associated infections,
- gain knowledge about the risk factors related to genitourinary system disorders, gain knowledge about the signs and symptoms of these disorders,
- 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 Prerequisites: None Credits: (133/34/0) 10

ECTS: 10 Abbreviated Title: Urinary and Reproductive System Category: FC Course Teaching Language: English

Keywords: Urinary, Reproduction

Offering Department/School: EMU Faculty of Medicine

Basic Medical Practice MEDN361 21.

The goals of this course include:

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

Course Duration: 1 academic year

Credits: (30/30/0) 3 Prerequisites: None ECTS:3

Abbreviated Title: ICS 3 Category: FC Course Teaching Language: English

Keywords: Basic Medical Practice

Offering Department/School: EMU Faculty of Medicine

MEDN362 **Clinical Skills Lab** 22.

This course includes:

Physical examination of the systems such as respiratory, cardiovascular systems, neurologic and gynecologic examinations, etc.

Clinical skills such as blood pressure measurement, nasogastric tube insertion.

Course Duration: 1 academic year

Credits: (30/30/0) 3 Prerequisites: None FCTS:3

Abbreviated Title: ICS 3 Category: FC Course Teaching Language: English

Keywords: Clinical Skills Lab

Offering Department/School: EMU Faculty of Medicine

MEDN363 **Student Research Activity** 23.

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

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

"Patients and Diseases".

Course Duration: 1 academic year

Credits: (20/15/0)2 Prerequisites: None ECTS:2

Abbreviated Title: ICS 3 Category: FC Course Teaching Language: English

Keywords: Student Research Activity

Offering Department/School: EMU Faculty of Medicine

MEDN401 Internal Medicine Block 24.

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

- · 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.
- Gaining competencies in basic clinical skills
- Understanding patient, disease and health care process management
- Effective communication with patients, their relatives and health team; being open to collaboration and team work
- Taking care of professional, societal and individual values, and develop behaviors accordingly

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

Course Duration: 12 weeks

Credits: (120/180/0) 20 Prerequisites: None ECTS: 20

Abbreviated Title: Internal Medicine I Category: FC Course Teaching Language: English Keywords: Internal Medicine I

Offering Department/School: MÜ Faculty of Medicine

MEDN405 Musculoskeletal System Health and Related Disorders 25.

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

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

Course Duration: 6 weeks

Credits: (60/90/0) **10** Prerequisites: None ECTS: 10

Abbreviated Title: Musculoskeletal System Category: FC Course Teaching Language: English

Keywords: Musculoskeletal System

Offering Department/School: MÜ Faculty of Medicine

26. MEDN406 Basic Surgical Disorders and Invasive Procedures

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

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

Course Duration: 7 weeks

Credits: (60/90/0) **10** Prerequisites: None ECTS: 10

Abbreviated Title: Basic Surgical Disorders Category: FC Course Teaching Language: English

Keywords: Basic Surgical Disorders

Offering Department/School: MÜ Faculty of Medicine

27. MEDN407 Professionalism and Counseling Program – I

LEARNING OBJECTIVES

- Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions
- 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
- Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities
- Understanding of social and cultural values and their place in health system
- Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional
 awareness and openness to life time development
- · Understanding and criticizing the national and international health politics and management processes in health
- Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback
- Understanding of the personal and professional development opportunities and making future plans

Course Duration: 8 weeks

Credits: (32/100/0) **5** Prerequisites: None ECTS: 5

Abbreviated Title: Professionalism, Counseling Category: FC Course Teaching Language: English

Keywords: Professionalism and Counseling

Offering Department/School: MÜ Faculty of Medicine

28. MEDN408 Opthalmology

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 2 weeks

Credits: (15/30/0) 3 Prerequisites: None ECTS: 3

Abbreviated Title: Opthalmology Category: FC Course Teaching Language: English

Keywords: Opthalmology

Offering Department/School: MÜ Faculty of Medicine

29. MEDN409 Otorhinolaryngology

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 2 weeks

Credits: (15/30/0) 3 Prerequisites: None ECTS: 3

Abbreviated Title: Otorhinolaryngology Category: FC Course Teaching Language: English

Keywords: Otorhinolaryngology

Offering Department/School: MÜ Faculty of Medicine

30. MEDN410 Dermatology

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 3 weeks

Credits: (30/30/0) 3 Prerequisites: None ECTS: 3

Abbreviated Title: Dermatology Category: FC Course Teaching Language: English Keywords: Dermatology

Offering Department/School: MÜ Faculty of Medicine

31 MEDN502 Phase 2: Pediatrics

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

- Obtain a routine age-appropriate history and perform physical examination in children of all ages.
- · Describe the clinical features of common acute and chronic pediatric conditions; diagnose and manage these conditions
- Interpret the results of common diagnostic tests with an emphasis on agerelated norms.
- List the differential diagnosis for common symptoms or patient presentations such as fever, cough, vomiting, jaundice, hematuria, proteinuria, arythmia, syncope, head ache abdominal pain, lymphadenopathy.

Recognizeacute life threatening conditions like shock, dehydration and intoxication and initiate basic life support and appropriate initial therapy.

Course Duration: 7 weeks

Abbreviated Title: Pediatrics Category: FC Course Teaching Language: English

Keywords: Pediatrics

32.

Offering Department/School: MÜ Faculty of Medicine

MEDN504 Development of Lifelong Health

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

- To assess growth and plotthedata on ageand sex appropriate growth charts
- To list the differential diagnosis and evaluation of child with growth and development disorders
 To provide age appropriate nutritional advice to families with special emphasis on breastfeeding
- To provide age appropriate anticipatory guidance to prevent life threatening conditions such as sudden infant death syndrome, supervision to prevent intoxications, injuries, falls and choking
- To list the components of age appropriate pediatric health supervision visit including health promotion and disease and injury prevention, the use of screening tools, and assessment of immunization status.
- To define the stages of cognitive development
- To know when to guide the children, with school failure and other school problems, to child psychiatry clinics
- To define the disorders of sleep and anxiety disorders that are frequently encountered in children and adolescents.
- To define common psychiatric problems of adolescence and to distinguish the individuals who are at risk for developing psychopathology.
- To know the risk factors for child abuse and recognize the findings in history and physical examination that suggests child abuse
- To define "periodic health examination" and perform to all age groups.
- To recommend necessary preventive services to an adult considering his/her personal risk factors and local epidemiologic data.

- To list theprobablemental health problems related to life cycle of women.
- To know the exercise types which could be recommended to healthy people and list necessary screening tests beforestarting an exercise program.
- To manage initial treatment of sports injuries.
- To counsel smokers adequately and offer help for smoking cessation.
- To screen risky behavior and manage appropriately.
- To recommend preventive methods against obesity.
- To recognize occupational health risks of healthcare workers and to take necessary precautions.
- To offer necessary preventive services to the elderly as a risk group.
- To recognize frequent syndromes of the elderly and manage appropriately.
- To know "health promotion" as a concept and to act accordingly.

Course Duration: 5 weeks

Credits: (60/90/0) **8** Prerequisites: None ECTS: 8

Abbreviated Title: Lifelong Health Category: FC Course Teaching Language: English

Keywords: Lifelong Health

Offering Department/School: MÜ Faculty of Medicine

33. MEDN506 Nervous System & Mental Health and Related Disorders

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

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

Course Duration: 6 weeks

Credits: (60/90/0) 11 Prerequisites: None ECTS: 11

Abbreviated Title: Nervous System Category: FC Course Teaching Language: English

Keywords: Nervous System

Offering Department/School: MÜ Faculty of Medicine

MEDN509 Obstetrics and Gynecology

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

- 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
- To perform reproductive/sexual health (RSH) interview with the patient and to use counselling principles.
- 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
- To define sexual abuse and violence, to recognize their symptoms and to write legal report; to explain current therapeutic approaches
- To evaluate and manage the basic urological symptoms
- To perform basic urolojical examination
- To recognize and manage the urological emergencies until transport of the patient
- To suggest screening methods for urological cancer and evaluate the results for early detection
- To diagnose urogenital genital infections and urinary tract stone disease, suggest necessary precautions

Course Duration: 5 weeks

Credits: (50/70/0) **7** Prerequisites: None ECTS: 7

Abbreviated Title: Gynecology Category: FC Course Teaching Language: English

Keywords: Gynecology

Offering Department/School: MÜ Faculty of Medicine

35. MEDN511 Introduction to Reproductive Health and Urogenital System Disorders

LEARNING OBJECTIVES of THIS CLERKSHIP PROGRAM

- 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
- To perform reproductive/sexual health (RSH) interview with the patient and to use counselling principles.
- 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
- To define sexual abuse and violence, to recognize their symptoms and to write legal report; to explain current therapeutic approaches
- To evaluate and manage the basic urological symptoms
- To perform basic urolojical examination
- To recognize and manage the urological emergencies until transport of the patient
- To suggest screening methods for urological cancer and evaluate the results for early detection
- To diagnose urogenital genital infections and urinary tract stone disease, suggest necessary precautions

Course Duration: 3 weeks

Credits: (40/50/0) 6 Prerequisites: None ECTS: 6

Abbreviated Title: Reproductive Health Category: FC Course Teaching Language: English

Keywords: Reproductive Health

Offering Department/School: MÜ Faculty of Medicine

MEDN512 Professionalism and Counseling Program – II

LEARNING OBJECTIVES

36.

- Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions.
- 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
- Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities
- Understanding of social and cultural values and their place in health system
- Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional
 awareness and openness to life time development
- Understanding and criticizing the national and international health politics and management processes in health
- Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback
- Understanding of the personal and professional development opportunities and making future plans

Course Duration: 6 weeks

Credits: (30/100/0) 6 Prerequisites: None ECTS: 6

Abbreviated Title: Professionalism, Counseling Category: FC Course Teaching Language: English

Keywords: Professionalism and Counseling

Offering Department/School: MÜ Faculty of Medicine

37. MEDN513 Thoracic Surgery

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 1 week

Credits: (10/15/0) 1 Prerequisites: None ECTS: 1

Abbreviated Title: Thoracic Surgery Category: FC Course Teaching Language: English

Keywords: Thoracic Surgery

Offering Department/School: MÜ Faculty of Medicine

38. MEDN514 Cardiovascular Surgery

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 1 week

Credits: (10/15/0) 1 Prerequisites: None ECTS: 1

Abbreviated Title: Cardiovascular Surgery Category: FC Course Teaching Language: English

Keywords: Cardiovascular Surgery

Offering Department/School: MÜ Faculty of Medicine

39. MEDN515 Plastic and Reconstructive Surgery

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

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

Course Duration: 1 week Credits: (10/15/0) 1

Prerequisites: None Abbreviated Title: Plastic Surgery Category: FC Course

Keywords: Plastic Surgery

Offering Department/School: MÜ Faculty of Medicine

MEDN516 Pediatric Surgery 40.

LEARNING OBJECTIVES of CLERKSHIP PROGRAM

· Analyzing problems, understanding decision making and problem solving processes by Integrating knowledge related with pediatric surgical disorders.

FCTS: 1

Teaching Language: English

· Gaining competencies in basic clinical and invasive skills

• Understanding patient, disease and health care process management

· Effective communication with patients, their relatives and health team; being open to collaboration and team work

· Taking care of professional, societal and individual values, and develop behaviors accordingly

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

Course Duration: 1 week

Credits: (10/15/0) 1 Prerequisites: None ECTS: 1

Abbreviated Title: Pediatric Surgery Category: FC Course Teaching Language: English

Keywords: Pediatric Surgery

Offering Department/School: MÜ Faculty of Medicine

MEDN601 **Phase 3: Internal Medicine** 41.

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

Course Duration: 8 weeks

Credits: (50/200/0) 10 Prerequisites: None ECTS: 10

Abbreviated Title: Internal Medicine Category: FC Course Teaching Language: English

Keywords: Internal Medicine

Offering Department/School: MÜ Faculty of Medicine

MEDN602 Phase 3: Pediatrics 42.

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

Course Duration: 8 weeks

Credits: (50/200/0) 10 Prerequisites: None

Abbreviated Title: Pediatrics Category: FC Course Teaching Language: English

Keywords: Pediatrics

Offering Department/School: MÜ Faculty of Medicine

MEDN603 **Emergency Medicine** 43.

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

Course Duration: 8 weeks

Credits: (50/200/0) 10 Prerequisites: None ECTS: 10

Abbreviated Title: Emergency Category: FC Course Teaching Language: English

Keywords: Emergency

Offering Department/School: MÜ Faculty of Medicine

MEDN605 **Public Health** 44.

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

Credits: (40/150/0) 7 Prerequisites: None ECTS: 7

Abbreviated Title: Public Health Category: FC Course Teaching Language: English

Keywords: Public Health

Offering Department/School: MÜ Faculty of Medicine

MEDN606 **Primary Care- Family Medicine** 45.

3 weeks of internship in Family Health Centers.

Course Duration: 3 weeks

Credits: (40/150/0) 7 Prerequisites: None FCTS: 7

Abbreviated Title: Primary Care Category: FC Course Teaching Language: English

Keywords: Primary Care

Offering Department/School: MÜ Faculty of Medicine

46. MEDN607 Community Health 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

Credits: (20/100/0) **4** Prerequisites: None ECTS: 4

Abbreviated Title: Community Health Category: FC Course Teaching Language: English

Keywords: Community Health

Offering Department/School: MÜ Faculty of Medicine

47. MEDN608 Professionalism and Counseling Program – III

LEARNING OBJECTIVES

- Understanding of human experience in health processes with its all dimensions and identifying the problems and creating appropriate solutions
- 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
- Establishing awareness of appropriate professional attitudes, ethical understanding and legal responsibilities
- · Understanding of social and cultural values and their place in health system
- Gaining of reflective practice and thinking abilities, heightening the sensitivity in health processes; improving personal and professional awareness and openness to life time development
- Understanding and criticizing the national and international health politics and management processes in health
- Gaining of basic knowledge and practice of teaching, learning, evaluation, giving feedback
- · Understanding of the personal and professional development opportunities and making future plans

Course Duration: 1 academic year

Credits: (30/100/0) 4 Prerequisites: None ECTS: 4

Abbreviated Title: Professionalism, Counseling Category: FC Course Teaching Language: English

Keywords: Professionalism and Counseling

Offering Department/School: MÜ Faculty of Medicine

Course Descriptions - II - English: All compulsory courses offered by other academic units

HIST180 Ataturk'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

Credits: (56/0/0)4 Prerequisites: None ECTS: 4

Abbreviated Title: Ataturk's Principles and The History Category: UC Course Teaching Language: Turkish

Keywords: History

Offering Department/School: Atatürk Araştırma ve Uygulama Merkezi

2. ENGL131 Medical English

Students develop and strengthen their understanding of medical terminology as it is used in a health care 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

Credits: (47/0/0) 4 Prerequisites: None ECTS: 4
Abbreviated Title: Med Engl Category: AC Course Teaching Language: English
Keywords: Medical English

Offering Department/School: Foreign Languages and English Preparatory School

3 TFMS101 Turkish for Medicine Students - I (for foreign 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 foreign medical students studying within the framework of the Eastern Mediterranean University - Marmara University International Joint Medical Program.

Course Duration: 1 academic semester

Credits: (56/20/0) 4 Prerequisites: None ECTS: 4

Abbreviated Title: Turkish-I Category: UC Course Teaching Language: Turkish Kevwords: Turkish Offering Department/School: Foreign Languages and English Preparatory School Turkish for Medicine Students - II (for foreign students) 4. 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 foreign medical students studying within the framework of the Eastern Mediterranean University - Marmara University International Joint Medical Program. Course Duration: 1 academic semester Credits: (56/20/0) 4 Prerequisites: None ECTS: 4 Abbreviated Title: Turkish-II Category: UE Course Teaching Language: Turkish Keywords: Turkish Offering Department/School: Foreign Languages and English Preparatory School Turkish for Medicine Students - III (for foreign students) TFMS 201 is the second year Turkish Communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only foreign medical students studying within the framework of the Eastern Mediterranean University - Marmara University International Joint Medical Program. Course Duration: 1 academic year Credits: (125/40/0) 4 Prerequisites: None Abbreviated Title: Turkish-III Category: UE Course Teaching Language: Turkish Keywords: Turkish Offering Department/School: Foreign Languages and English Preparatory School Turkish for Medicine Students IV (for foreign students) 6. TFMS 301 is the third year Turkish Communication course in Dr. Fazıl Küçük Faculty of Medicine and is a mandatory course for only foreign medical students studying within the framework of the Eastern Mediterranean University - Marmara University International Joint Medical Course Duration: 1 academic year Credits: (125/40/0) 4 Prerequisites: None FCTS: 4 Abbreviated Title: Turkish-IV Category: UE Course Teaching Language: Turkish Keywords: Turkish Offering Department/School: Foreign Languages and English Preparatory School