Republic of Türkiye
Istanbul Okan University
Medical Faculty

2019-2025
Academic Years

Turkish and English Undergraduate Medical Education Programs

Curriculum
(All Years)

English Version

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ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

MEDICAL UNDERGRADUATE EDUCATION PROGRAM GOALS AND OBJECTIVES

English/Turkish Medical Undergraduate Education Program, is designed based on National Core Curriculum for Undergraduate Medical Education in Turkey and the Turkish Qualifications Framework. The education program designed according to the competencies/competencies/outputs of Medical Education is continuously evaluated and improved through student academic success indicators and student, instructor and education coordinator feedback. The education program is managed in line with the plans, institutional legislation and regulations regarding the continuation of the program in ordinary and extraordinary periods in line with the determined needs and current developments. In this framework, the aims and objectives of the Education Program of our Faculty are defined as follows, taking into account the suggestions of our internal and external stakeholders.

Aim of Istanbul Okan University English/Turkish Medical Undergraduate Education Program:

The theoretical and factual knowledge necessary for graduated physicians to provide health services by taking into account the needs of our country and our region, to adopt professional ethics and professional principles, to advocate for health, to be a leader-manager, team member and communicator, to show a scientific and analytical approach in professional and individual development, and to have lifelong learning competencies, To design, execute and continuously evaluate and develop an educational program that provides cognitive-applied skills, field-specific competence, communication and social competence, competence to work independently and take responsibility, communication and social activity and learning competence.

Professional Practices Objectives of Istanbul Okan University English/Turkish Medical Undergraduate Education Program:

Physicians who successfully complete the 6-year Medical Education Program of Istanbul Okan University Faculty of Medicine;

- Uses the knowledge, skills and professional attitudes gained from basic and clinical medical sciences and social and behavioral sciences as a whole in health service delivery
- While managing the health and care of patients, it does not discriminate language, religion, race and gender, and demonstrates a biopsychosocial approach that takes into account the social, demographic and cultural background of the individual
- Adopts protecting and improving the health of the individual and society as a priority while providing health services
- Carries out a study that takes into account individual, social, social and environmental factors affecting health in order to protect and improve individual and community health
- Provides health education to healthy and/or sick individuals and their relatives in a context that includes other health professionals by recognizing the characteristics, needs and expectations of the community in the service area
- Demonstrates a safe, rational and effective approach in all processes of prevention, diagnosis, treatment, follow-up and rehabilitation while providing health services
- Performs safe and effective interventional and / or non-interventional applications to the patient in the processes of diagnosis, treatment and rehabilitation of diseases
- Based on patient and employee health and safety in health service delivery
- While providing health services, it takes into account the changes in the physical and socioeconomic environment on a regional and global scale that may affect health, as well as the changes in the individual characteristics and behaviors of the people to whom it provides health services.

Professional Values and Approaches Objectives of Istanbul Okan University English/Turkish Medical Undergraduate Education Program:

Physicians who successfully complete the 6-year Medical Education Program at Istanbul Okan University Faculty of Medicine;

- Takes into account good medical practices at every stage of professional practice
- Fulfills its duties and obligations within the framework of professional ethical principles, rights and legal responsibilities
- Demonstrates decisive behavior that takes into account the integrity of the patient while providing high quality health care
- To see emotions and cognitive characteristics as a whole in professional practices and evaluate his/her performance accordingly
- Defends a health service that protects and improves public health, taking into account the concepts of social security and social obligation
- Plans and conducts education and counseling processes in an integrated manner while providing services related to individual and community health for the protection and promotion of health
- Evaluates the impact of health policies and practices on health indicators and advocates for improving the quality of health services.
- Acts to protect and improve their own physical, mental and social health
- Sets an example and acts as a leader within the health team
- As a manager in health institutions, uses resources effectively and for the benefit of society and in accordance with the legislation in the processes of service planning, implementation and evaluation.
- Communicate positively and assume different team roles within the health care team
- Demonstrates behaviors appropriate to the duties and obligations of the employees within the health team
- Works harmoniously and effectively with colleagues and other professional groups in professional practices

- Communicates effectively with patients, relatives, health professionals and other professional groups, institutions and organizations
- Communicates effectively with individuals and groups that require special approach and have different sociocultural characteristics
- Adopts a patient-centered approach and joint decision-making with the patient in diagnosis, treatment, follow-up and rehabilitation processes

Professional and Personal Development Goals of Istanbul Okan University English/Turkish Medical Undergraduate Education Program:

- Physicians who successfully complete the 6-year Medical Education Program at Istanbul Okan University Faculty of Medicine;
- Plans and implements scientific research for the population it serves and uses the results obtained and the results of other researches it follows for the benefit of the society
- Follows and critically evaluates the current literature related to the profession
- Based on the principles of evidence-based medicine in clinical decision-making
- Uses information technologies in health service, research and education studies
- Manages individual work and career development effectively
- Reflects new knowledge into professional practice by combining it with existing knowledge and adapts to changing conditions throughout professional life
- Organizes the self-learning process by selecting appropriate learning resources to improve the quality of the health service they provide

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

EDUCATION COMMITEES ROLE DEFINITIONS

PROGRAM EVALUATION AND DEVELOPMENT COMMITTEE

ROLE DEFINITION

The aim is to develop a continuous and systematic educational program model and create an implementation plan aligned with the mission and vision of Istanbul Okan University Faculty of Medicine, by fulfilling the following duties:

1. Evaluate draft course schedules from phase coordinators and provide recommendations.
2. Review regular feedback on program implementation collected from faculty members and students.
3. Analyze academic performance results reported by the Assessment and Evaluation Committee within the scope of program evaluation.
4. Institutionalize the habit of educational program evaluation as part of the faculty culture.
5. Periodically assess graduates' opinions regarding the educational program and their medical careers.
6. Report program evaluation results regularly following meetings and ensure their distribution to faculty administration, educational boards, faculty members, and students.
7. Evaluate elective courses or internship proposals (in-field or out-of-field) submitted by coordinators.
8. At the end of each academic year, review external stakeholders' suggestions related to education.
9. Hold at least one annual meeting with phase coordinators and program directors to assess the alignment of educational programs with the National Core Education Program for Undergraduate Medical Education (UCEP).
10. Support the development and maintenance of horizontal, vertical, and in-depth integration across all educational phases.

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ASSESSMENT AND EVALUATION COMMITTEE

ROLE DEFINITION

1. Define the assessment design, new methods, levels, and criteria for undergraduate medical education.

2. Conduct assessment and evaluation practices for undergraduate education.

3. Perform necessary analyses to evaluate the validity and reliability of exams, and report results and academic performance tracking data to the Dean and the Program Evaluation and Development Committee for program improvement.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

COORDINATORS' BOARD

ROLE DEFINITION

In line with decisions made by the Deanery and Faculty Board each academic year, the Board is responsible for planning, coordinating, supervising, and evaluating education and training by performing the following duties:

1. Ensure planning of education and training according to the faculty's learning outcomes.
2. Ensure education is conducted regularly in accordance with the academic calendar.
3. Prepare draft educational programs for the next academic year by gathering opinions from departments and submit them to the Deanery by the end of June each year.
4. Present student and faculty feedback collected in meetings after each semester to the Program Evaluation and Development Committee and the Deanery.
5. Organize,follow, and advise the Deanery on academic and social services as well as career counseling for students.
6. Report educational program issues and proposed solutions to the Deanery.
7. Collaborate with other commissions and committees when needed.
8. Fulfill other education-related duties assigned by the authorized bodies of the faculty.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

PHASE COORDINATORSHIP

ROLE DEFINITION

1. Ensure smooth execution of educational programs.
2. Report phase-specific updates for the Education Guide to the Coordinators' Board.
3. Supervise faculty adherence to and participation in educational programs.
4. Report any issues and suggestions regarding program execution to the Coordinators' Board.
5. Monitor the adequacy of physical and technical conditions of theoretical and practical training environments.
6. Compile, technically review, and ensure secure duplication of exam booklets and optical forms before printing.
7. Ensure exams are conducted in compliance with the Faculty's Education, Training, and Examination Regulations, including exam setup, answer keys, and disciplined administration.
8. Ensure the evaluation of exam results and announcement to students.
9. Review student objections to assessment and evaluation in writing and consult the relevant faculty or department before forwarding to the Assessment and Evaluation Committee.
10. Organize communication meetings with student representatives.
11. Ensure all feedback surveys related to education are conducted and properly submitted to the Program Evaluation and Development Committee; present these evaluation results alongside academic assessment outcomes in Coordinators' Board meetings.
12. Ensure complete documentation of clerkship and internship evaluation forms in phases 4, 5, and 6, and report any issues to the Coordinators' Board if necessary.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

MULTIDISCIPLINARY PRACTICES COMMITTEE

ROLE DEFINITION

1. Based on UCEP, plan essential physician practices, multidisciplinary sessions, panels, etc., in line with the curriculum, and assist in program implementation through necessary arrangements.

2. Meet at least twice each academic year to monitor, evaluate, and improve multidisciplinary practices.

3. Coordinate between departments and relevant academic staff to implement multidisciplinary practices decided with phase coordinators.

4. Identify tools, equipment, and consumables required for new clinical and professional skills training proposed by the Program Evaluation and Development Committee and request them from the Deanery.

5. Design and implement OSCE exams.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

FACULTY DEVELOPMENT COMMITTEE

ROLE DEFINITION

1. Identify prior certified training received by faculty members and determine their needs regarding "faculty development" training.

2. Create, implement, and evaluate training programs for faculty who have not yet received or wish to renew their faculty development training.

3. Define content and structure of faculty development programs in line with medical education goals and learning objectives.

4. Design and conduct faculty development as part of continuous professional development.

5. Evaluate the results and impact of faculty development programs and share them with relevant educational committees and the Deanery.

6. Plan new training based on Program Evaluation and Development Committee reports and other committee suggestions.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

CAREER AND SOCIAL SUPPORT ADVISORY COMMITTEE

ROLE DEFINITION

1. Provide counseling on students' health and social support needs.
2. Implement and monitor an advisory system to enhance student-faculty relationships.
3. Coordinate student support services when needed.
4. Organize social responsibility, community engagement, and cultural education activities.
5. Support students' career planning, and provide guidance on specialty exams such as TUS and USMLE.
6. Provide support and guidance on exchange programs like Erasmus and IFMSA.

ISTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE
ENGLISH/TURKISH UNDERGRADUATE MEDICAL EDUCATION PROGRAM
PROFICIENCIES/COMPETENCIES/LEARNING OUTCOMES

PROFICIENCY-1/Professional Practices		**BPDI-Basic Professional Domain Identifiers**
COMPETENCY 1.1	**Health Service Provider**	
Competency 1.1.1.	Uses the knowledge, skills and professional attitudes gained from basic and clinical medical sciences and social and behavioral sciences as a whole in health service delivery	**Theoretical-Factual Knowledge** Has advanced theoretical and practical knowledge supported by textbooks, application tools and multimedia educational tools and other resources containing basic and up-to-date information in the field of health **Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literatüre **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Domain-specific competence** Collects, interprets, interprets, applies data related to the field of health and cooperates with people from related disciplines in the stages of announcing the results and acts in accordance with social, scientific, cultural and ethical values. **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.2.	While managing the health and care of patients, it does not discriminate language, religion, race and gender, and demonstrates a biopsychosocial approach that takes into account the social, demographic and cultural background of the individual	**Domain-specific competence** The structure, physiological functions and behaviors of the healthy and / or sick individual; competent to understand the relationship between the individual's health and physical and social environment **Communication and social competency** Has the knowledge and skills to communicate interculturally **Learning competencies**

		Decides and applies ways of accessing information
Competency 1.1.3.	Adopts protecting and improving the health of the individual and society as a priority while providing health services	**Theoretical-Factual Knowledge** Has advanced theoretical and practical knowledge supported by textbooks, application tools and multimedia educational tools and other resources containing basic and up-to-date information in the field of health **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.4.	Carries out a study that takes into account individual, social, social and environmental factors affecting health in order to protect and improve individual and community health	**Theoretical-Factual Knowledge** Has advanced theoretical and practical knowledge supported by textbooks, application tools and multimedia educational tools and other resources containing basic and up-to-date information in the field of health **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Domain-specific competence** The structure, physiological functions and behaviors of the healthy and / or sick individual; competent to understand the relationship between the individual's health and physical and social environment **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.5.	Provides health education to healthy and/or sick individuals and their relatives in a context that includes other health professionals by recognizing the characteristics, needs and expectations of the community in the service area	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Cognitive-Applied Skills** Using advanced theoretical and practical knowledge acquired in the field of health, provides health education for the individual, family and community

		Communication and social competence Informs the relevant people and institutions on issues related to the field of health; conveys his/her thoughts and suggestions for solutions to problems in written and verbally; listens to the thoughts, requests and expectations of the relevant people and institutions **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.6.	Demonstrates a safe, rational and effective approach in all processes of prevention, diagnosis, treatment, follow-up and rehabilitation while providing health services	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Theoretical-Factual Knowledge** Has advanced theoretical and practical knowledge supported by textbooks, application tools and multimedia educational tools and other resources containing basic and up-to-date information in the field of health **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Ability to work independently and take responsibility** Takes responsibility individually and as a team member to solve complex and unforeseen problems encountered in applications related to the field of health **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.7.	Performs safe and effective interventional and / or non-interventional applications to the patient in the processes of diagnosis, treatment and rehabilitation of diseases	**Theoretical-Factual Knowledge** Has advanced theoretical and practical knowledge supported by textbooks, application tools and multimedia educational tools and other resources containing basic and up-to-date information in the field of health **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research

		and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Cognitive-Applied Skills** Produce solutions to problems specific to the field in line with scientific data / evidence **Ability to work independently and take responsibility** Takes responsibility individually and as a team member to solve complex and unforeseen problems encountered in applications related to the field of health **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Competency 1.1.8.	Based on patient and employee health and safety in health service delivery	**Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Communication and social competence** Effectively and securely documents/maintains accurate and effective records of professional activities and practices **Domain-specific competence** Serves as a role model to colleagues and an example to the society with his/her professional identity **Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethics rules related to their duties, rights and responsibilities as an individual **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Competency 1.1.9.	While providing health services, it takes into account the changes in the physical and socioeconomic environment on a regional and global scale that may affect health, as well as the changes in the individual characteristics and behaviors of the people to whom it provides health services.	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Domain-specific competence** The structure, physiological functions and behaviors of the healthy and / or sick individual; competent to understand the relationship between the individual's health and physical and social environment

		Domain-specific competence Collects, interprets, interprets, applies data related to the field of health and cooperates with people from related disciplines in the stages of announcing the results and acts in accordance with social, scientific, cultural and ethical values. **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
PROFICIENCY DOMAIN-2 / Professional Values and Approaches		**BPDI-Basic Professional Domain Identifiers**
Proficiency 2.1.	**Adopting Professional Ethics and Professional Principles**	
Competency 2.1.1	Takes into account good medical practices at every stage of professional practice	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Domain-specific competence** Collects, interprets, interprets, applies data related to the field of health and cooperates with people from related disciplines in the stages of announcing the results and acts in accordance with social, scientific, cultural and ethical values. **Domain-specific competence** Serves as a role model to colleagues and an example to the society with his/her professional identity **Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethics rules related to their duties, rights and responsibilities as an individual **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach

Competency 2.1.2	Fulfills its duties and obligations within the framework of professional ethical principles, rights and legal responsibilities	**Cognitive-Applied Skills** Interprets and evaluates scientifically proven data using advanced knowledge and skills acquired in the field of health, identifies and analyzes problems, develops solutions based on research and evidence by considering professional and ethical values, shares knowledge, and makes teamwork **Domain-specific competence** Knows the importance of ethical principles and ethics committees for the individual and society in the fields of education, practice and research **Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethical rules related to their duties, rights and responsibilities as an individual **Ability to work independently and take responsibility** Takes responsibility individually and as a team member to solve complex and unforeseen problems encountered in applications related to the field of health **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Competency 2.1.3	Demonstrates decisive behaviors that take into account the integrity of the patient while providing high quality health care	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethical rules related to their duties, rights and responsibilities as an individual **Domain-specific competence** Serves as a role model for colleagues and an example to the society with his/her professional identity
Competency 2.1.4	To see emotions and cognitive characteristics as a whole in professional practices and evaluate his/her performance accordingly	**Ability to work independently and take responsibility** Takes responsibility individually and as a team member to solve complex and unforeseen problems encountered in applications related to the field of health **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Proficiency 2.2.	**Health Advocate**	**BPDI-Basic Professional Domain Identifiers**
Competency 2.2.1.	Defends a health service that protects and improves public health, taking into account	**Domain-specific competence** Knows the importance of ethical principles and ethical rules for the individual and society in the fields of education, practice and research

	the concepts of social accountability and social obligation	**Communication and social activity** Organizes and implements projects and activities in cooperation with other professional groups for the social environment in which they live with a sense of social responsibility. **Communication and social competence** Informs the relevant people and institutions on issues related to the field of health; conveys his/her thoughts and suggestions for solutions to problems in written and verbally; listens to the thoughts, requests and expectations of the relevant people and institutions **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Competency 2.2.2.	Plans and conducts education and counseling processes in an integrated manner while providing services related to individual and community health for the protection and promotion of health	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Cognitive-Applied Skills** Using advanced theoretical and practical knowledge acquired in the field of health, provides health education for the individual, family and community **Domain-specific competence** Has sufficient awareness of and applies individual and public health, environmental protection and occupational safety issues, including infants and children **Communication and social competence** Informs the relevant people and institutions on issues related to the field of health; conveys his/her thoughts and suggestions for solutions to problems in written and verbally; listens to the thoughts, requests and expectations of the relevant people and institutions **Learning competencies** Decides and applies ways of accessing information
Competency 2.2.3.	Evaluates the impact of health policies and practices on health indicators and advocates for improving the quality of health services.	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Domain-specific competence** Acts in accordance with quality management and processes and participates in these processes **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach

Competency 2.2.4.	Acts to protect and improve their own physical, mental and social health	**Theoretical-factual knowledge** Has the knowledge of accessing scientific knowledge in the field of health, monitoring, evaluating and applying current literature **Domain-specific competence** Serves as a role model for colleagues and an example to the society with his/her professional identity **Learning competencies** Decides and applies ways of accessing information
Proficiency 2.3.	**Leader-Manager**	**BPDI-Basic Professional Domain Identifiers**
Competency 2.3.1	Sets an example and acts as a leader within the health team	**Domain-specific competence** Serves as a role model to colleagues and an example to the society with his/her professional identity **Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethics rules related to their duties, rights and responsibilities as an individual **Learning competencies** Decides and applies ways of accessing information
Competency 2.3.2	As a manager in health institutions, uses resources effectively and for the benefit of society and in accordance with the legislation in the processes of service planning, implementation and evaluation.	**Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethical rules related to their duties, rights and responsibilities as an individual **Domain-specific competence** Serves as a role model to colleagues and an example to the society with his/her professional identity **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach **Learning competencies** Decides and applies ways of accessing information
Proficiency 2.4.	**Team Member**	**BPDI-Basic Professional Domain Identifiers**
Competency 2.4.1	Communicate positively and assume different team roles within the health care team	**Communication and social activity** Organizes and implements projects and activities in cooperation with other professional groups for the social environment in which they live with a sense of social responsibility. **Ability to work independently and take responsibility** Carries out a study independently by using advanced knowledge in the field of health and takes responsibility as a team member in cooperation with other professional groups working in this field

		Ability to work independently and take responsibility Plans activities for the development of the employees under his/her responsibility within the framework of a project, proposes them and monitors and evaluates the process **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Competency 2.4.2	Demonstrates behaviors appropriate to the duties and obligations of the employees within the health team	**Domain-specific competence** Acts in accordance with the laws, regulations, legislation and professional ethics rules related to their duties, rights and responsibilities as an individual **Ability to work independently and take responsibility** Takes responsibility individually and as a team member to solve complex and unforeseen problems encountered in applications related to the field of health **Communication and social skills** Shares their thoughts and solutions to problems related to health issues with both experts and non-experts in a teamwork environment, supporting their ideas with quantitative and qualitative data and acting as an effective member of the process. **Cognitive-Applied Skills** Uses advanced knowledge and skills acquired in the health field to interpret and evaluate scientifically proven data, identify and analyze problems, develop solution proposals based on research and evidence while observing professional and ethical values, share information, and work in a team.
Competency 2.4.3	Works harmoniously and effectively with colleagues and other professional groups in professional practice	**Ability to work independently and take responsibility** Plans, supervises, monitors, and evaluates activities aimed at the development of employees under their responsibility within the framework of a project **Communication and social activities** Organizes and implements projects and activities in cooperation with other professional groups for the social environment in which they live, with a sense of social responsibility
Proficiency 2.5.	**Communicator**	**BPDI-Basic Professional Domain Identifiers**
Competency 2.5.1	Establishes effective communication with patients, their relatives, healthcare professionals, other professional groups, institutions, and organizations.	**Communication and social skills** Establishes effective verbal and written communication **Communication and social skills** Informs relevant individuals and institutions about health-related issues; conveys thoughts and proposed solutions to problems in writing and verbally; listens to the thoughts, requests, and expectations of relevant individuals and institutions

Competency 2.5.2	Establishes effective communication with individuals and groups requiring a special approach and possessing different sociocultural characteristics.	**Communication and social activities** Has knowledge and skills in intercultural communication **Communication and social competence** Communicates effectively verbally and in writing
Competency 2.5.3	Adopts a patient-centered approach and shared decision-making with the patient in diagnosis, treatment, follow-up, and rehabilitation processes.	**Theoretical-factual knowledge** Possesses knowledge to evaluate the nature, source, limits, accuracy, reliability, and validity of information **Cognitive-applied skills** Produces solutions to field-specific problems based on scientific data/evidence **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
PROFICIENCY DOMAIN -3-Professional and Personal Development		**BPDI-Basic Professional Domain Identifiers**
PROFICIENCY 3.1.	**Demonstrating a scientific and analytical approach**	
Competency 3.1.1	Plans and implements scientific research for the population it serves, and uses the results obtained and the results of other research it has conducted for the benefit of society.	**Theoretical-factual knowledge** Has the knowledge to access scientific information in the field of health, follow current literature, evaluate it, and apply it **Domain-specific competence** Collects, interprets, and applies data related to the field of health, collaborates with individuals from relevant disciplines in the stages of disseminating results, and acts in accordance with social, scientific, cultural, and ethical values **Domain-specific competence** Understands the importance of ethical principles and rules in education, practice, and research for individuals and society **Ability to work independently and take responsibility** Conducts work independently using advanced knowledge in the field of health and takes responsibility as a team member in collaboration with other professional groups working in the field **Ability to work independently and take responsibility** Fulfills the responsibility of producing scientific knowledge specific to the field/conducts research at a descriptive level **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach

Competency 3.1.2	Keeps up to date with current literature related to their profession and evaluates it critically.	**Theoretical-factual knowledge** Possesses knowledge to access scientific information in the field of health, follow current literature, evaluate, and apply it **Theoretical-factual knowledge** Possesses knowledge to evaluate the nature, source, limits, accuracy, reliability, and validity of information **Cognitive-applied skills** Uses information technologies related to the field of health and research **Ability to work independently and take responsibility** Uses advanced knowledge in the field of health to carry out work independently and takes responsibility as a team member in collaboration with other professional groups working in the field **Ability to work independently and take responsibility** Takes responsibility as an individual and team member to solve complex problems encountered in healthcare applications that are unforeseen **Communication and social competence** Monitors and evaluates events/developments in healthcare that are on the agenda of society and the World **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Competency 3.1.3	Uses evidence-based medicine principles in clinical decision-making	**Theoretical-factual knowledge** Possesses knowledge to evaluate the nature, source, limits, accuracy, reliability, and validity of information **Cognitive-applied skills** Produces solutions to field-specific problems based on scientific data/evidence **Learning competence** Critically evaluates advanced knowledge and skills acquired in the field of health **Ability to work independently and take responsibility** Fulfills the responsibility of producing scientific knowledge specific to the field/conducts descriptive-level research **Communication and social competence** Effectively and safely documents professional activities and practices/keeps accurate and effective records
Competency 3.1.4	Uses information technology in work related to healthcare, research, and education	**Communication and social skills** Uses information and communication technologies along with computer software at least at the European Computer Driving License level required by the field

		Ability to work independently and take responsibility Conducts work independently using advanced knowledge in the field of health and takes responsibility as a team member in cooperation with other professional groups working in the field **Ability to work independently and take responsibility** Plans, manages, monitors, and evaluates activities aimed at the development of employees under their responsibility within the framework of a project **Ability to work independently and take responsibility** Fulfills the responsibility of producing scientific knowledge specific to their field/conducts descriptive-level research **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Proficiency 3.2.	**Lifelong learning**	**BPDI-Basic Professional Domain Identifiers**
Competency 3.2.1	Effectively manages individual work and career development	**Theoretical-factual knowledge** Has knowledge of scientific information in the field of health, ability to access, evaluate, and apply current literature **Learning competency** Evaluates advanced knowledge and skills acquired in the field of health with a critical approach **Learning competency** Sets learning goals and demonstrates learning **Learning competency** Demonstrates commitment to lifelong learning, is open to development, and continues this behavior **Field-specific competency** Participates in post-graduation in-house, local, national, and international training programs; credits and documents these **Communication and social competency** Uses a foreign language at least at B1 level to follow developments in their field and communicate with colleagues **Communication and social competence** Uses information and communication technologies, including computer software at least at the European Computer Driving Licence level required by their field
Competency 3.2.2	Integrates new information with existing knowledge and reflects it in professional practice, adapting to changing conditions throughout their professional life	**Theoretical-factual knowledge** Has knowledge of scientific information in the field of health, ability to access, evaluate, and apply current literature **Learning competency** Identifies learning resources, accesses resources effectively/quickly

		Ability to work independently and take responsibility Conducts a study independently using advanced knowledge in the field of health and takes responsibility as a team member in collaboration with other professional groups working in the field **Ability to work independently and take responsibility** Plans, manages, monitors, and evaluates activities aimed at the development of employees under their responsibility within the framework of a project **Ability to work independently and take responsibility** Fulfills the responsibility of producing scientific knowledge specific to their field/conducts descriptive-level research **Learning competencies** Evaluates the advanced knowledge and skills acquired in the field of health with a critical approach
Competency 3.2.3	Organizes self-learning process by selecting appropriate learning resources to improve the quality of health services provided	**Theoretical-factual knowledge** Has the ability to access scientific knowledge in the field of health, follow current literature, evaluate it, and apply it **Learning competence** Decides on and applies ways to access information **Ability to work independently and take responsibility** Conducts a study independently using advanced knowledge in the field of health and takes responsibility as a team member in collaboration with other professional groups working in the field **Ability to work independently and take responsibility** Plans, manages, monitors, and evaluates activities aimed at the development of employees under their responsibility within the framework of a project **Ability to work independently and take responsibility** Fulfills the responsibility of producing scientific knowledge specific to their field/conducts descriptive-level research

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İSTANBUL OKAN UNIVERSITY FACULTY OF MEDICINE

REGULATIONS FOR EDUCATION, TRAINING AND EXAMINATION

PART ONE

Purpose, Scope, Basis and Definitions

Purpose

ARTICLE 1 –(1) The purpose of this Regulation is to define and regulate the procedures and principles to be applied in terms of education, examination and evaluation principles for students who study at the İstanbul Okan University Faculty of Medicine, and whose medium of instruction is English and Turkish.

Scope

ARTICLE 2 –(1) This Regulation covers provisions related to regulations regarding the education and training of students studying at the İstanbul Okan University Faculty of Medicine, conditions relating to examinations and their evaluations, forms of internships and family medicine, titles and other educational procedures, as well as the graduation procedures.

Basis

ARTICLE 3 –(1) This Regulation have been prepared in accordance with the Law Number 2547 on Higher Education and Law Number 2809 on the Organization of Higher Education Institutions.

Definitions

ARTICLE 4 – (1) In these Regulations, the following terms shall respectively have the following meanings;

a) Family Medicine: Twelve- (12) month long period, during which clinical, polyclinical and field works are carried out in the sixth phase;

b) Re-sit Examination: The re-sit examination covering all courses in all course committees at the end of each phase in the first, second and third years;

c) Dean: Dean of Faculty of Medicine;

ç) Course committee: Group of theoretical courses and practical training given within a specific period of time by various disciplines with themes related to a cell, tissue, organ, system or other medical subjects complement each other, within a period of first three years;

d) Course committee exam: Theoretical and practical exams held at the end of each course committee, within a period of first three years;

e) Academic year: One academic year, also called a phase;

f) Phase: One academic year;

g) Phase grade: Represents total of 60% of the grades received from course committees and 40% of the final exam or the re-sit exam for the first, second and third phases; and the average of the internship grades in the fourth and fifth phases;

ğ) Integrated System: Courses given together by subjects, by the respective departments in the first, second and third phases;

h) Faculty Board: Faculty Board denotes İstanbul Okan University Faculty of Medicine;

ı) Administrative Board of Faculty: Board of Directors of the Faculty of Medicine;

i) Final exam: The exam covering all courses in all course committees and given at the end of each phase in the first, second and third phases;

j) Board of Coordinators: The Board consisting of two vice general coordinators, coordinator and vice coordinator for each phase, student representative of each phase and a secretary under the presidency of the General Coordinator appointed by the Dean;

k) Board of Trustees: Board of Trustees of the İstanbul Okan University;

l) Rector: Rector of the İstanbul Okan University;

m) Senate: Senate of the İstanbul Okan University;

n) Internship: Practical/applied and theoretical training at the departments affiliated to the clinical sciences in the fourth and fifth phases;

o) University: İstanbul Okan University,

ö) Board of Directors of the University: Board of Directors of the İstanbul Okan University.

PART TWO

Student Admissions and Conditions for Registration

Student Quotas

ARTICLE 5 –(1) Number of students to be admitted each year is determined by the Faculty Board and notified to the Rector.

Student Admissions and Conditions for Registration

ARTICLE 6 –(1) Students should be admitted to the faculty as per the rules set out by the Higher Education Council. Student registrations should be handled within periods set out and announced by the Rector's Office. Students failing to submit an application or the required documents in a timely manner shall lose their registration rights.

Registration Procedures

ARTICLE 7 –(1) Admission and registration procedures are handled by the Rector's Office. The initial registration, registration renewal, undergraduate transfer procedures of the students admitted to the education program of the faculty, as well as the procedures related to the determination and collection of the tuition fees shall be as per the rules set out by the Higher Education Council and the resolutions of the Senate.

(2) Admission and registration of foreign students shall be as per the provisions of the Regulations.

Student Status

ARTICLE 8 –(1) Only full-time students admitted to the Faculty. Students must have renewed their registrations by the beginning of each phase and paid the tuition fees in a timely manner in order to exercise their student rights and exemptions and to take the examinations. Students failing to pay the tuition fees in a timely manner may not perform registration, renew their registrations, participate the courses and examinations, benefit from the student rights and be awarded a diploma.

Undergraduate Transfers

ARTICLE 9 –(1) Admittance of students, who want to transfer from another Faculty of Medicine, must be in accordance with the provisions of the Regulations on the Principles of Transfers between Associate and Undergraduate Degree Programs, Double Major, Minor and Inter-Institution Credit Transfers at Higher Education Institutions published in the Official Gazette No. 27561, dated April 24, 2010.

PART THREE

Principles for Education

Board of Coordinators

ARTICLE 10 –(1) The Board of Coordinators shall operate as per the principles set out by the Dean's Office. The Board of Coordinators ensure regular implementation of the educational activities.

Medium of Instruction

ARTICLE 11 –(1) Medium of Instruction is Turkish for students studying in the Turkish Medicine Program and English for students studying in the English Medicine Program. Medium of Instruction at the preparatory classes is English.

Foreign Language Preparatory School

ARTICLE 12 –(1) Preparatory classes are given in accordance with the provisions of the relevant legislation for students with Turkish or English medium of instruction.

(2) Preparatory class students receive their education as per the principles set out by the Senate.

(3) The education of the Faculty consists total of six phases, each covering one academic year. Thus, students who fail to pass the English Proficiency Exam at the beginning of the academic term and study in English Preparatory class cannot take a new English Proficiency Exam right within relevant academic year. English preparatory class passing grade is 80 out of 100 Students must obtain a score of minimum 60 out of 100 to be considered successful from English preparatory class.

(4) Principles set out by the relevant legislation and the Senate applied to foreign students who registered to the Faculty.

Foreign Students

ARTICLE 13 – (1) Foreign students who have qualified for registration to the Faculty are required and obligated to be successful in the Turkish profeciency test given by the jury to be appointed by the Faculty Board by the end of third year. Otherwise, those who fail this exam cannot continue their studies in fourth phase.

Period/Duration of Study

ARTICLE 14 – (1) Education in the Faculty consist total of 6 phases, each covering one academic year. Preparatory class is not included in this period. One academic year is a phase consisting of minimum thirty-two weeks. The Faculty Board entitled to extend the periods of study and change the periods of the course committees as deemed necessary.

(2) Students who fail to be successful at the end of 6 phases may continue their education as per the principles set out by the Higher Education Council, provided that such students pay their tuition.

Levels of Education at the Faculty

ARTICLE 15 –(1) Medical education at the Faculty consists of three stages:

a) Basic Medical Sciences Associate Degree Education (First and second phases): Consists of two phases, each covering one academic year. Students who successfully complete these phases may continue their education on the Undergraduate Degree for Clinical Medical

Sciences level.

b) Undergraduate Degree for Clinical Medical Sciences (Third, fourth and fifth phases): Consists of three phases, each covering one academic year and covering some basic medical sciences, clinic, polyclinic and similar applications, laboratory studies, etc.

c) Family Medicine Education (Sixth phase): Covers twelve-month period and clinic, polyclinic and fieldworks.

Form of Education

ARTICLE 16 –(1) Medical education is carried out in the form of course committees in the first, second and third phases, in the form of internship in the fourth and fifth phases, and in the form of family medicine in the sixth phase. Education in the course committees is conducted in the form of theoretical and practical course by various disciplines in such a way that the subjects related to a cell, tissue, organ, system or other medical subjects complement each other. In addition to the courses given in the course committees, students are also given additional courses to assist them to improve their knowledge and skills in various fields, and to receive the compulsory courses required by the Higher Education Council in the first and second phases.

(2) Mainly practical training is given in addition to the theoretical courses during the internships in the fourth, fifth and sixth phases.

Non-Committee Courses

ARTICLE 17 –(1) All courses which are not included in the course committees are called "Non-Committee Courses". These courses are classified as compulsory and elective. "Principles of Ataturk and History of Turkish Reforms" and "Turkish Language are compulsory courses during the freshman year; and English courses are compulsory for the students, whose medium of instruction is Turkish, and they are given during the freshman year.

(2) Additional course(s) can be introduced by the decision of the Faculty Board in all phases, and such courses may be compulsory or elective.

Pre-Requisite and Repetition of the Phase

ARTICLE 18 –(1) Each phase is the pre-requisite of next phase in the medical education. Therefore, students who fail to pass a phase or internship exams may not continue to the next phase, and such students should be obliged to repeat the failed phase or internship(s). Course passing system is implemented for the non-committee courses. Students who fail from these non-committee courses may continue to the next phase, but they must pass these courses until the end of the fifth year. Otherwise, they may not continue to the sixth phase.

Compulsory Attendance

ARTICLE 19 –(1) Students of the Faculty of Medicine are obliged to receive all courses of the academic year for which they are registered. It is compulsory to attend all practical

and theoretical courses such as laboratory, discussion, seminar, clinical studies, field studies, etc.

(2) Compulsory attendance principles regarding the theoretical courses in the first, second and third phases is applied as follows:

a) Students failing to attend more than 30% of the theoretical courses in each course committee without valid excuse are not allowed to take the exams related to such course committee in the first, second and third phases, and such students receive zero (VF) grade.

b) Students failing to attend more than 30% of the theoretical courses in total in all course committees at the end of an academic year receive zero (VF) grade and are not allowed to take the final and re-sit exams.

c) No new exam right shall be given to students failing to take the final and re-sit exams at the end of the first, second and third phases.

(3) Compulsory attendance principles regarding the practical courses in the first, second and third phases is applied as follows:

a) Students failing to attend more than 20% of the practical courses in each course committee without valid excuse are not allowed to take the practical and theoretical exams related to such course committee in the first, second and third phases, and such students receive zero (VF) grade.

b) Students failing to attend more than 20% of the practical courses in total in all course committees at the end of an academic year receive zero (VF) grade and are not allowed to take the final and re-sit exams.

c) Students failing to attend more than 20% of the total of all practical courses in each course committee, and whose excuse is accepted by the Board of Directors of the Faculty of Medicine in the first, second and third phases obliged to attend make-up for the practical courses failed to be taken due to absence on days and at times to be specified by the head of the department/field or the authorized faculty members, considering the possibilities of the respective department/field. Students failing to attend make up are not allowed to take any examinations for the relevant course committee and deemed to have received zero (VF) grade.

ç) Students, whose total days of absence from all practical courses without excuse exceeds 20% in all course committees in a specific academic year, shall be deemed to have received zero (VF) grade, and are not allowed to take the final and the re-sit exams.

(4) Compulsory attendance principles for internships is applied as follows:

a) Internship is considered as practical course and in internships for the fourth and fifth phases, if the absence rate does not exceed 20% in each internship period, such students obliged to attend make-up for the practical courses failed to be taken due to absence on days and at times to be specified by the head of the department/field or the authorized faculty members, considering the possibilities of the respective department/field. Students failing to attend make up are not allowed to take any examinations for the respective

internship(s), and deemed to have received zero (VF) grade.

b) Students failing to attend more than 20% of each internship period without excuse in the fourth and fifth phases are not allowed to take the exam and re-sit exam for that internship, and deemed to have received zero (VF) grade.

c) In the family medicine phase, students failing to attend more than 20% of each internship period without excuse and whose excuse is accepted by the Board of Directors of the Faculty of Medicine, obliged to attend make-up for the practical courses failed to be taken due to absence on days and at times to be specified by the head of the department/field or the authorized faculty members, considering the possibilities of the respective department/field. Students failing to attend make up are deemed to have received zero (VF) grade.

ç) In the family medicine phase, students failing to attend more than 20% of each internship period without excuse receive zero (VF) grade.

(5) Compulsory attendance principles for the elective courses is applied as follows:

a) Students failing to attend more than 30% of each non-committee elective course without excuse are not allowed to take the final and re-sit exams of the respective course, and receive VF grade for that course

Excuses

ARTICLE 20 –(1) In order for the absence excuses of the students studying at the Faculty of Medicine to be acceptable, such excuses must be documented and accepted by the Board of Directors of the Faculty of Medicine.

Freezing Registration

ARTICLE 21 –(1) Students having valid excuses such as health problems, military service, natural disasters, etc., and are able to submit evidencing documents to the concerned boards, as well as the students desiring to go out of the University for scholarship, internship, research, etc. purposes to contribute their education and training may freeze their registrations for maximum 2 (two) years by the decision of the Board of Directors, provided that period of each freezing is maximum 1 (one) year. Registration suspensions may be requested for two successive years.

PART FOUR

Exams

Form and Application of Exams

ARTICLE 22 –(1) The following principles must be required in the form and application of exams take place/applied in the Faculty:

a) Exam dates can only be changed by the decision of the Board of Directors once they

have been announced.

b) Exams can be applied in the form of theoretical (written, oral or both written and oral) and practical (written, oral or both written and oral).

c) Practical exams may not be held, in cases where it is deemed appropriate by the respective department in the course committees.

ç) Practical exams held prior to the theoretical exams in course committees. Students failing to take the practical exams are not allowed to take the theoretical exams.

d) Lecturers and instructors may hold quizzes with or without prior notice in groups or collectively during the practical courses. Grades obtained from such quizzes may be added to the grade of the practical exam at a specific rate to be determined by the lecturers and instructors. This rate may not exceed 50% of the practical exam grade.

e) Students obliged to take the course committee, internship, final and re-sit exams on days and at times announced. Students failing to take the exam in a timely manner receive zero grade for the course committee exams, and "FF" grade for the internship, final and re-sit exams at the end of the respective phase.

Course Committee Exams and Evaluation

ARTICLE 23 –(1) Exams are held at the end of each course committee in the first, second and third phases. Course committee exam cover all courses taken in the relative course committee. Exam grade for a course committee consist of sum of the grades obtained from the theoretical and practical exams. Grades for the practical exams in the course committees determined in such a way that it will not exceed 25% of the total grade for the respective course. Theoretical exam grade for a course committee is the sum of all grades obtained from all courses covered by the respective examination. However, if students obtain a grade below 50% for each course covered by the theoretical exam in that course committee, the threshold system is applied. Threshold system may not be applied for practical exams in course committees.

(2) Threshold system application is as follows:

a) If the number of correct answers in any one of the courses covered by the theoretical exam for the course committee is below 50%, the grade difference below 50% is deducted from the total grade for the respective course.

b) Courses having a number (grade) of theoretical questions below 7 are combined to create a threshold.

c) Decimal differences equal to 0,5 or above in the total of the theoretical and practical exam grades are rounded up.

Final, Re-Sit Exams and Their Evaluation

ARTICLE 24 –(1) A final exam covering the courses in all course committees held at the end of each phase in the first, second and third phases. The grade to be obtained from this

exam recorded as the final exam grade. Students with phase grade below 60 and students whose final exam grade is FF are qualified for taking the re-sit exam.

(2) The threshold system, specified under Article 23, is applied to the final and re-sit exams.

(3) The final exam should be held minimum 15 days later from the date of the last course committee exam, and the re-sit exam should be held minimum 15 days after at the earliest from the date of the final exam.

Internship Exams

ARTICLE 25 –(1) The fourth and fifth phases are the clinical internship period. An exam should be held at the end of each internship during the fourth and fifth phases. This exam should be in the form of theoretical (written, oral or both written and oral) and practical (written, oral or both written and oral) exams. Students failing in these exams should be entitled to take the internship re-sit exam for the internship(s) that they failed.

Internship Re-sit Exam

ARTICLE 26 –(1) Students who failed in one or more internships should be given the re-sit exams of the relevant internships. The internship re-sit examination should be held 15 days at the earliest from the date of completion of the last internship in that academic year.

(2) Students failing in the re-sit exam(s) should be entitled to repeat the respective internship(s) during the next academic year. Students failing in the exams for the repeated internships should be given a second re-sit exam for the failed internship(s) minimum 15 days at the earliest from the date of such exam. Students could not begin the next phase's internships without successfully completing the internships for a specific period.

Excuse Exam

ARTICLE 27 –(1) Excuse exams should be applied as follows:

a) Students who continue to attend courses in first, second and third phases and those who failed to enter the exam due to an excuse, must report their excuses within 5 working days following date of the respective exam. Students, whose excuses are accepted by the Board of Directors, should be entitled to take the excuse exam. Excuse exams for the course committees may be in written, oral or both written and oral form.

b) Students whose health excuses are accepted by the Board of Directors of the Faculty may not attend the courses and take exams during the period of the respective report.

c) No excuse exams held for internship exam and internship re-sit exams.

ç) Provisions of the relevant legislation is applied to students who failed to take the mid-term exams of the non-committee courses in a timely manner due to their excuses.

Family Medicine

ARTICLE 28 –(1) In the family medicine phase (the sixth phase) students are evaluated by the concerned internship supervisor based on their clinical, polyclinical, laboratory and field works, the patient histories taken, epicrisis reports prepared, attitude and attention towards patients, on-duty times, seminars attended, level of theoretical knowledge, overall behaviours, etc. at the end of the studies in each department or field individually. Students must obtain a score of minimum 60 out of 100 to be considered successful.

(2) Students failing in one or more internships during the family medicine phase should be obliged to repeat and successfully pass the respective internship(s).

Phase Grade

ARTICLE 29 – (1) Phase grade principles are as follows:

a) Phase grade is the sum of 60% of the average of all grades obtained from the course committee exams and 40% of the final or the re-sit exam in the first, second and third phases. Students must obtain a score of minimum 60 out of 100 and the final or re-sit grade must be at least 50 to be considered successful. Non-committee courses should not be taken into consideration in calculation of the phase grade.

b) Students who have a score of at least 60 on each course committee exam and whose average of the course committee exam grades is 75 and above are exempted from the final exam according to their decision. The final grade of these students is accepted as the average of the course committee grades. The last final exam grade is valid and evaluated for students who entitled to an exemption, but still take the final exam.

(2) The internship grades in the fourth and fifth phases should be calculated by evaluation of the grades obtained from the theoretical and practical exams. Proportions of the theoretical and practical exams in the internship grade should be defined by the concerned department. Passing grade for internships is minimum 60 out of 100. Phase grade is the average of the internship grades.

(3) The phase grade in the family medicine phase is the average of the internship grades.

(4) In non-committee courses, mid-term and final exams are evaluated as grade and transferred o transcript as “Passed” or “Failed”. The student should pass the mentioned lessons to be able to graduate from Faculty of Medicine.

(5) All exams held at the Faculty of Medicine are evaluated over 100 full grade.

Assessment of Exams

ARTICLE 29/A-(1) Success score range, letter grade, coefficient and descriptions applied in assessment of exams are shown below:

a) Exam grades:

Success score range	Letter Grade	Coefficient	Description
90-100	AA	4.0	Excellent
80-89	BA	3.5	Very Good-Excellent
70-79	BB	3.0	Good
65-69	CB	2.5	Average-Good
60-64	CC	2.0	Average
0-59	FF	00	Fail
0	VF	00	Unattended

b) The conversion table prepared by the Higher Education Council is used for the transformation between 4 and 100 grading systems.

(c) Descriptions of letter symbols are shown below:

a) E: Students who are successful but cannot meet the requirements of a lesson are given E. These students should get a grade by meeting the requirements until the date of the related instructor submits the exam degrees. Otherwise, E will be turned to FF.
b) M: The lessons that are taken before in other universities are named as "M" and accepted as equivalent to the related lesson, so the student does not need to take this lesson again.
c) G: "Pass" for non-committee courses.

ç) K: "Fail" for non-committee courses.

d) T: Transfer lesson and added to average.

e) ÖD: The course taken during Student Exchange Programme.

f) ERA: The course taken during Erasmus Programme.

PART FIVE

Graduation, Diploma and Titles

Graduation Grade

ARTICLE 30 –(1) Graduation grades of students is the average of the phase grades. This is the "Grade Point Average" that is the graduation grade of students.

Diploma and titles

ARTICLE 31 –(1) The following diplomas are awarded at the faculty:

a) Basic Medical Sciences Associate Degree Diploma: Associate degree diploma is awarded to the students of the Faculty of Medicine in accordance with the provisions of the "Regulations on Awarding Associate Degree Diplomas to Students Failing to Complete their Undergraduate Education or their Orientation to the Vocational School of Higher Education" as published in the Official Gazette No. 20112, dated March 18, 1989.

b) Medical Degree Diploma: Students who successfully completed the education period covering six phases required for a medical degree should be awarded a "Medical Degree Diploma" upon taking the Hippocratic Oath.

PART SIX

Miscellaneous and Final Provisions

Disciplinary Actions

ARTICLE 32 –(1) Disciplinary actions shall be as per the "Regulations on Disciplinary Actions at Institutions of Higher Eucation" as published in the Official Gazette No. 28388, dated August 18, 2012.

Provisions not included herein

ARTICLE 33 –(1) The provisions of the Higher Education Law No. 2547, dated 23/11/2012, provisions of other relevant legislation, provisions of the "İstanbul Okan University Regulations on Associate Degree and Undergraduate Degree Studies and Examinations, as well as the resolutions of the Board of Directors of the Faculty and University Senate should apply to any points not covered herein.

Execution

ARTICLE 34 –(1) These regulations take effect following the date of publication and valid from the beginning of the 2014-2015 Academic Year.

Executive power

ARTICLE 35 –(1) Provisions of these regulations executed by İstanbul Okan University Rector's Office.

Preclinic Overview Table – Year I

Class I			ECTS: 64
DISCIPLINE	**THEORETICAL HOURS**	**PRACTICAL HOURS**	**TOTAL**
BIOPHYSICS	36	-	36
BIOSTATISTICS	28	-	28
BEHAVIORAL SCIENCES	24	-	24
HISTOLOGY AND EMBRYOLOGY	35	12	47
MEDICAL BIOCHEMISTRY	78	12	90
MEDICAL BIOLOGY AND GENETICS	58	18	76
MEDICAL HISTORY AND ETHICS	16	-	16
ANATOMY	42	34	76
PHYSIOLOGY	34	8	42
CLINICAL SKILLS-I	6	6	12
TOTAL MEDICAL LECTURE HOURS	357	90	447
ENTREPRENEURSHIP	-	-	-
TURKISH LANGUAGE (Online Education)	52	-	52
HAPPY LIFE	54	-	54
BASIC ENGLISH-I	52	-	52
CAREER LIFE (Online Education)	21	-	21
ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	58	-	58
BASIC ENGLISH-II	56	-	56

Preclinic Overview Table – Year II

Class II			ECTS: 60
DISCIPLINE	**THEORETICAL HOURS**	**PRACTICAL HOURS**	**TOTAL**
HISTOLOGY AND EMBRYOLOGY	48	28	76
MEDICAL BIOCHEMISTRY	88	12	100
MEDICAL PHARMACOLOGY	21	-	21
PATHOLOGY	17	-	17
ANATOMY	87	54	141
PHYSIOLOGY	101	14	115
CLINICAL SKILLS-II	-	10	10
MEDICAL MICROBIOLOGY	115	22	137
TOTAL MEDICAL LECTURE HOURS	477	140	617
ENTREPRENEURSHIP	12	-	12
ACADEMIC ENGLISH	32	-	32

Preclinic Overview Table – Year III

Class III				ECTS: 60
DISCIPLINE	**THEORETICAL HOURS**	**PRACTICAL HOURS**	**SIMULATION HOURS**	**TOTAL**
CLINICAL BIOCHEMISTRY	16	-	-	16
CHEST DISEASES	12	-	-	12
EAR, NOSE AND THROAT	10	-	-	10
GENETICS	9	-	-	9
INTERNAL MEDICINE	58	-	4	62
ONCOLOGY	3	-	-	3
MEDICAL PHARMACOLOGY	89	-	-	89
NUCLEAR MEDICINE	14	-	-	14
PATHOLOGY	83	18	-	101
PEDIATRICS	47	-	-	47
FAMILY MEDICINE	8	-	-	8
GENERAL SURGERY	18	3	2	23
GYNECOLOGY AND OBSTETRIC	15	-	-	15
RADIOLOGY	9	-	-	9
UROLOGY	3	-	-	3
INFECTIOUS DISEASES	6	-	-	6
OPHTHALMOLOGY	8	-	-	8
CLINICAL MICROBIOLOGY	3	-	-	3
PLASTIC SURGERY	3	-	-	3
NEUROLOGY	15	-	-	15
NEUROSURGERY	7	-	-	7
ORTHOPEDICS AND TRAUMATOLOYGY	8	-	-	8
PHYSICAL MEDICINE AND REHABILITATION	4	-	-	4
PSYCHIATRY	25	-	-	25
CLINICAL SKILL	-	2	-	2
ANESTHESIOLOGY AND REANIMATION	8	-	-	8
CARDIOLOGY	18	3	-	21
CARDIOVASCULAR SURGERY	4	-	-	4
THORACIC SURGERY	2	-	-	2
PUBLIC HEALTH	42	-	-	42
FORENSIC MEDICINE	4	-	-	4
BIOSTATISTICS	4	-	-	4
EMERGENCY MEDICINE	2	-	-	2
TOTAL MEDICAL LECTURE HOURS	557	26	6	589

Clinic Overview Table – Year IV

Class IV			
DISCIPLINE	**DURATION (WEEKS)**	**CLINICAL HOURS**	**ECTS**
FORENSIC MEDICINE	**1**	**35**	**4**
RADIOLOGY AND NUCLEAR MEDICINE	**2**	**70**	**3**
ANESTHESIOLOGY AND REANIMATION	**2**	**70**	**3**
RATIONAL USE OF DRUGS	**2**	**70**	**3**
GENERAL SURGERY	**6**	**210**	**10**
PEDIATRIC HEALTH AND DISEASES	**6**	**210**	**10**
GYNECOLOGY AND OBSTETRIC	**6**	**210**	**10**
FAMILY MEDICINE	**2**	**70**	**3**
EMERGENCY MEDICINE	**2**	**70**	**3**
INTERNAL MEDICINE	**6**	**210**	**11**
TOTAL	**35**	**1225**	**60**

Clinic Overview Table – Year V

Class V			
DISCIPLINE	**DURATION (WEEKS)**	**CLINICAL HOURS**	**ECTS**
CARDIOVASCULAR SURGERY	**1**	**35**	**2**
CHEST DISEASES	**3**	**105**	**5**
THORACIC SURGERY	**1**	**35**	**2**
DERMATOLOGY	**2**	**70**	**5**
EAR, NOSE AND THROAT	**3**	**105**	**5**
INFECTIOUS DISEASES	**2**	**70**	**5**
NEUROSURGERY	**3**	**105**	**5**
PEDIATRIC SURGERY	**1**	**35**	**2**
PHYSICAL MEDICINE AND REHABILITATION	**2**	**70**	**5**
PLASTIC AND RECONSTRUCTIVE SURGERY	**1**	**35**	**2**
UROLOGY	**2**	**70**	**2**
NEUROLOGY	**3**	**105**	**4**
OPHTHALMOLOGY	**3**	**105**	**4**
ORTHOPEDICS AND TRAUMATOLOGY	**3**	**105**	**4**
PSYCHIATRY	**3**	**105**	**4**
CARDIOLOGY	**3**	**105**	**4**
TOTAL	**36**	**1260**	**60**

Internship Overview Table – Year VI

Class VI			
DISCIPLINE	**DURATION (WEEKS)**	**CLINICAL HOURS**	**ECTS**
INTERNAL MEDICINE	**8**	**280**	**10**
GENERAL SURGERY	**4**	**140**	**5**
GYNECOLOGY AND OBSTETRICS	**4**	**140**	**5**
PEDIATRIC HEALTH AND DISEASES II	**8**	**280**	**10**
PUBLIC HEALTH	**4**	**140**	**5**
EMERGENCY MEDICINE	**8**	**280**	**10**
ELECTIVE ROTATION	**4**	**140**	**5**
PSYCHIATRY	**4**	**140**	**5**
FAMILY MEDICINE	**4**	**140**	**5**
TOTAL	**48**	**1680**	**60**

Curriculum Phase I

1st SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	ECTS
TIP101	Basic Sciences Committee I	Yes	Yes	7	10
TIP103	Basic Sciences Committee II	Yes	Yes	8	10
ATA101	Atatürk's Principles and History of Turkish Revolution I	Yes	No	15	2
TRD102 / TRD 106	Turkish Language I / TurkishForForeigners I	Yes	No	15	2
ENG111	English I	No	No	15	3
ISLT222 /BBA222	Entrepreneurship Applications	Yes	No	15	2
KYP001	Career and Life Planning	Yes	No	15	1
TOTAL:					**30**

2nd SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	ECTS
TIP102	Basic Sciences Committee III	Yes	Yes	9	12
TIP104	Basic Sciences Committee IV	Yes	Yes	9	13
ATA102	Atatürk's Principles and History of Turkish Revolution II	Yes	No	15	2
TRD102 / TRD 106	Turkish Language II / TurkishForForeignersII	Yes	No	15	2
ISLT222 /BBA222	Entrepreneurship Applications	Yes	No	15	2
ENG112	English II	No	No	15	3
TOTAL:					**34**

*C: Compulsory
**A: Average

OKAN UNIVERSITY FACULTY OF MEDICINE
2019 – 2020 ACADEMIC YEAR
PHASE I
BASIC SCIENCES SUBJECT COMMITTEE-I
(TIP 101) 7 WEEK PROGRAM
(16.09.2019 – 01.11.2019)

SUMMARY OF THE COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- BIOPHYSICS	18	-	18
2- BIOSTATISTICS	14	-	14
3- BEHAVIORAL SCIENCES	12	-	12
4- HISTOLOGY AND EMBRYOLOGY	4	2	6
5- MEDICAL BIOCHEMISTRY	18	-	18
6- MEDICAL BIOLOGY AND GENETICS	16	-	16
7- MEDICAL HISTORY AND ETHICS	8	-	8
TOTAL MEDICAL LECTURE HOURS	**90**	**2**	**92**
8- CAREER LIFE (Online Education)	10	-	10
9- ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	16	-	16
10- ENTREPRENEURSHIP	-	-	-
11- TURKISH LANGUAGE (Online Education)	12	-	12
12- HAPPY LIFE	14	-	14
13- TURKISH FOR FOREIGNERS (TRD105)	12	-	12
14- ENG111: ACADEMIC ENGLISH (Online Education)	24	-	24
TOTAL	**178**	**2**	**180**

DEAN : **Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE I : **Prof. Dr. Zuhal ALTUNKAYNAK**

VICE CHIEF COORDINATOR OF PHASE I : **Assist. Prof. Dr. Hadi KARIMKHANI**

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
BIOPHYSICS	**Assist. Prof. Dr. Hümbet AHMEDOV**
BIOSTATISTICS	**Assist. Prof. Dr. Mehmet KARADAĞ**
BEHAVIORAL SCIENCES	**Prof. Dr. Mustafa SERCAN**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU**
	Prof. Dr. Zuhal ALTUNKAYNAK
	Assist. Prof. Dr. Dila ŞENER
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK**
	Prof. Dr. Gülnur ANDİCAN
	Assist. Prof. Dr. Hadi KARIMKHANI
MEDICAL BIOLOGY AND GENETICS	**Prof. Dr. Ali SAZCI** **Assist. Prof. Dr. Öznur B. EKMEKÇİGİL**
MEDICAL HISTORY AND ETHICS	**Prof. Dr. Semih BASKAN**
TURKISH LANGUAGE	**Instructor Belgin KIZILÇAY**
ATATÜRK PRINCIPLES AND HISTORY OF TURKISH REVOLUTION	**Assist. Prof. Dr. Mehmet KILIÇ**
EN111: ACADEMIC ENGLISH (Online Education)	**Instructor Papatya ÖZEN**
CAREER LIFE	**Instructor Mehmet AKSU**
TURKISH FOR FOREIGNERS	**Instructor Sevil ACIPINAR**

Course Descriptions and Learning Objectives

TIP101 Basic Science Committee I (10 credits)

The purpose of this course is to examine the main components of behavioral sciences by analyzing the reason for human behavioral nature and providing general information about theoretical subjects of psychology as defense mechanisms, psychology of learning and attitude theorizes. Students understand the intended use of laser and ultrasound in medical treatment and surgery, applying the cybernetic principles in medical practices. They learn molecular structure and function of cellular membranes, permeability specialties. The general structure of the course is to describe the chemical foundations of the human organism; a brief knowledge of basic organic chemistry is given and the structures of proteins are worked out, the chief concern being the structure-function relation. Specific emphasize has been given to gain basic terminology and background information necessary for learning the history of medicine and ethical principles relating with the medical profession. It is also aimed to examine the main component of cell biology for establishing background for medical students. Through chapters, we will discuss issues related to both inside and outside of the cell, cell environment, molecular basis of some diseases, DNA, RNA structure, function and transcriptional regulation. Students gain a basic perspective to understand the cell biology concept including microscope, microscopy and histochemical techniques, cell and its content, nucleus and cell cycle. In addition, they learn different epithelial tissue types line the human body together with functions and locations of epithelium types.

At the end of this course, the students will be able to:

- To define cellular structures, cytoskeleton, cell membrane, and organelles and explain the diseases that occur with the dysfunction of these structures; to define nucleic acids, explain transcription, translation and replication mechanisms and their regulation,
- To explain the types of microscopes commonly used in histological research, organelle structures within the cell and cell extracellular matrix interaction,
- To identify microscope parts and distinguish different types of cells under the microscope,
- To explain the importance of biostatistics in terms of health and medical sciences, classify data and summarize findings with central tendency measures, interpret findings with prevalence measures and create graphs/tables,
- To explain the place of humans in behavioral sciences; can explain the neurogenetic, cognitive, psychological, and sociocultural components of behavior,
- To define the basic features of medical ethics, and to explain important events in the history of medicine, World Health Organization regulations and patient rights,
- To explain the processes and cellular events occurring in living systems using physical laws, physical models and methods,
- To relate the basic principles of biochemistry to medical practices and to understand its role in health sciences; to understand the properties of the water molecule, acid-base balance and to evaluate buffer systems; to learn the basic chemical principles of biochemistry and to evaluate the effects of chemical bonds on biochemical functions; to learn the structures and functions of carbohydrates, understand carbohydrate metabolism and examine biological diagnosis methods.

TIP101 Basic Science Committee I (10 credits) Course Content:

Medical Biochemistry	
Theoretical	Atomic Structure and Periodic Table, Chemical Bonds, Nomenclature of Organic Compounds, Functional Groups, Alkanes and Cycloalkanes: Structures, Definitions and Reactions, Alkenes and Alkynes: Structure and Synthesis, Alcohols, Ethers, Epoxides, Aromatic Compounds, Amines, Aldehydes and Ketones Carboxylic Acids and Derivatives, Calculations in Biochemistry, Water, Fluid and Electrolyte Balance, Stereoisomerism: Optically Active Compounds
Medical Biology and Genetics	
Theoretical	Introduction to Medical Biology and Genetics, Cell, Origin of the Cell, Evolutionary Formation, Evolution of Metabolism, Molecular Compounds of the Cell, Cell Membranes, Characteristics of the Cytosol, Organelles and Structural Features, Organelle Biogenesis, Intracellular Traffic and Vesicular Transport, Nuclear Membrane Structure and Functions, Nucleus and Nucleolus
Behavioral Sciences	
Theoretical	Introduction to Behavioral Sciences, Criteria for Knowing the Individual, Self-Knowledge, Introduction, Definition and History of Psychology, The Application Areas of Psychology and its Relationship with other Sciences, The Biological Basis of Behavior and Beuroplasticity, Sense Organs, Sensation, Perceptions Consciousness, Attention, Awareness, Memory, Intelligence, Excitements, Defense Mechanisms, Evolutionary Psychology
Medical History and Ethics	
Theoretical	The Evolution of Medicine – Prehistoric Medicine, Medicine in Ancient Civilizations: Mesopotamia, Egypt Medicine in Ancient Civilizations Indian, Chinese, other, Ancient Greek Medicine: Mythological Period Ancient Greek Medicine: Hippocratic Period Medieval Medicine: Medicine in Europe, Medieval Medicine: Islamic Medicine Industrial Revolution Avicenna, Biruni, Farabi, Zahravi, others, Renaissance Medicine: 14th-19th Century in Europe Medicine, Ancient Turks and Anatolian Seljuks of Centuries, Ottoman Medicine: 14th-19th Centuries, Medical Education (1827-1933), Medicine in the Republican Era: Ministries
Biophysics	
Theoretical	Introduction to Biological and Medical Physics, Physical Measurements, Unit Standards, Biomechanics, Bioelectronics, Biooptics, Auditory System
Biostatistics	

Theoretical	Introduction Statistics and Biostatistics, Biostatistics-Descriptive Statistics, Frequency Tables, Single Variable Graphics, Continuous Probability Distribution (Standard Normal Distribution), Chi-Square Introduction to Hypothesis Testing, Hypothesis Testing About The Difference Between Two Population Means	
Histology and Embryology		
Theoretical	Types of Microscopes, Sections, Study and Preparation under Microscope, Light Microscopic Examination Methods of Cell and Tissue Structure, Detection and Staining Methods Routinely used in Histology and Pathology, Special Histochemical, Cytochemical and Immunocytochemical Methods	
Practical	Histology Laboratory: Introduction and use of light Microscope, Examination of cell properties	

OKAN UNIVERSITY FACULTY OF MEDICINE
2019 – 2020 ACADEMIC YEAR
PHASE I
BASIC SCIENCES SUBJECT COMMITTEE-III
(TIP 102) 8 WEEK PROGRAM
(27.01.2019 – 20.03.2019)

SUMMARY OF THE COMMITTEE

DISCIPLINE	THEORETICAL	PRACTICAL	TOTAL
1- ANATOMY	16	14	30
2- HISTOLOGY AND EMBRYOLOGY	16	6	22
3- PHYSIOLOGY	14	8	22
4- MEDICAL BIOCHEMISTRY	22	-	22
5- MEDICAL BIOLOGY AND GENETICS	12	6	18
6- CLINICAL SKILLS-I	6	6	12
TOTAL MEDICAL LECTURE HOURS	**86**	**40**	**126**
7- ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	14	-	14
8- TURKISH LANGUAGE (Online Education)	14	-	14
9- HAPPY LIFE	14	-	14
10- ENGLISH I (ENG 112) (Online Education)	28	-	28
11-TURKISH FOR FOREIGNERS	14	-	14
12- TURKISH CULTURE (Online Education)	14	-	14
TOTAL	**184**	**40**	**224**

DEAN : Prof. Dr. Semih BASKAN

CHIEF COORDINATOR OF PHASE I : Prof. Dr. Zuhal ALTUNKAYNAK

VICE CHIEF COORDINATOR OF PHASE I : Assist. Prof. Dr. Hadi KARIMKHANI

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE

DEPARTMENTS	*LECTURERS*
ANATOMY	Assist. Prof. Dr. Paria SHOJAOLSADATI Assist. Prof. Dr. Bengi YEGIN
HISTOLOGY AND EMBRYOLOGY	Prof. Dr. Cengiz BAYÇU
	Prof. Dr. Zuhal ALTUNKAYNAK
PHYSIOLOGY	Prof. Dr. Lamia PINAR
	Prof. Dr. Adil ALLAHVERDİYEV
	Assoc. Prof. Dr. Güldal İnal GÜLTEKİN
MEDICAL BIOCHEMISTRY	Prof. Dr. Gülden BURÇAK
	Prof. Dr. Gülnur ANDİCAN
	Prof. Dr. Dildar KONUKOĞLU
	Assist. Prof. Dr. Hadi KARIMKHANI
MEDICAL BIOLOGY AND GENETICS	Prof. Dr. Ali SAZCI
	Assist. Prof. Dr. Öznur B. EKMEKÇİGİL
	RA Pınar GÜLTEPE
CLINICAL SKILLS-I	Instructor Özlem KARATANA
ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION	Assist. Prof. Dr. Mehmet KILIÇ
TURKISH LANGUAGE	Instructor Belgin KIZILÇAY
TURKISH CULTURE	Assist. Prof. Dr. Halide Gamze İnce YAKAR
TURKISH FOR FOREIGNERS	Instructor Abdurrahman ALBAY
ENGLISH I (ENG112)	Instructor Papatya ÖZEN

Course Descriptions and Learning Objectives

TIP102 Basic Science Committee III (12 credits)

The purpose of this course is to the field and provides a survey of data and data types. To acquaire basic terminology necessary for studying anatomy, recognize the general patterns of muscles and bones is targeted. At the end of the course, student is able to describe the anatomical features of neurocranium, splanchnocranium, vertebral column, thoracic and rib bones, upper and lower extremities. It is also intended to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events and ideas. Such knowledge will better students to understand themselves and the roles they play in addressing the issues facing humanity. Biochemistry course is to give information on biochemical thermodynamics, the utilization of vitamins and minerals as co-factors of enzymes, acids, bases and buffers and the biochemical constituents of cellular membranes, their organization and dynamic features. Physiology course is to give a basic perspective to understand the cell biology concepts, introduce the major type of human tissues and explain the connection between morphology of particular cells and their functions. Understanding of basic terminology and background information necessary for learning the history of medicine and ethical principles relating with the medical profession is aimed. Examination of the genetic inheritance and molecular techniques and understanding of basic perspective of the cell biology concepts and the major type of human tissues is targeted. Connection between morphology of particular cells and their functions are emphasized. Embryology course is to give information on fertilization, implantation and continuous developmental processes in embryo including bilaminar germ disc formation, gastrulation, neurulation, and starting from 3rd month, monthly changes occur in fetus till birth. In addition, students will learn molecular mechanisms accompanying the developmental period and they gain clinically knowledge regarding developmental abnormalities, congenital birth defects and their main causes.

At the end of this course the students will be able to:

- Define termination of anatomy, general considerations of the bones and muscles, elements of neuro- and splanchnocranium, elements of thorax and ribs, upper and lower extremities and understanding the normal structures and functions of human body,
- Discuss the cultural and sexual effects on creativity and the degradation method of negative effects on this concept. At the end of this course the student will be able to describe the chemical and physical laws that govern biological processes; the biochemical functions of vitamins and bioelements and describe the concept of acids, bases and buffers and the composition, architecture and the dynamic features of membranes,
- Explain gametogenesis period, the chromosomal and genetic factors that cause the birth defects and spontaneous abortions, fertilization, implantation, the first week of development, formation of endodermal/mesodermal/ectodermal germ layers and further development of them, the fetal period, monthly changes of fetus, fetal membranes and detailed structure and functions of placenta,
- Define the role of the physician as an expert witness in the court, contributions of Mazhar Osman Uzman and Hulusi Behçet, Paracelceus, La Mettrie, Sechenov, IP Semmelweiss, Metchnikov to medicine,
- Discuss issues related to both Mendelian and non-Mendelian genetics, biotechnological approaches used in genetics, population genetics, chromosome abnormalities, genetic counseling,
- Name the different fluid compartments, electrolytes and define diffusion, osmosis, and tonicity, the resting membrane potential in the human body.

TIP102 Basic Science Committee III (12 credits) Course Content:

Anatomy	
Theoretical	Introduction to Anatomy, Overview of the Movement System (Muscle, Bone, Joint), Columna Vertebralis Bones, Upper Extremity Bones, Upper Extremity Joints, Columna Vertebralis Joints, Lower Extremity Bones, Lower Extremity Joints, Skull Bones (Neurocranium, Splanchnocranium, Inner and outer faces)
Practical	Anatomy Laboratory: Bones of the Upper Extremity and Columna Vertebralis, Joints of the Upper Extremity and Columna Vertebralis, Bones and Joints of the Lower Extremity, Neurocranium, Splanchnicranium Skull Bones (Inner and Outer Faces)
Histology and Embryology	
Theoretical	Introduction to Embryology, Gametogenesis, Week I of Development, Week II of Development, Week III of Development. Embryological Period, Development of the Fetus, Fetal Membranes and Placenta, Congenital Malformations
Medical Biochemistry	
Theoretical	Acid Base Systems, Buffers and PH, Definition, Structure and Classification of Amino Acids, Reactions of Amino Acids Peptides and Oligopeptides, Structure and Classification of Proteins, Definition, Structure and Classification of Carbohydrates, Reactions of Carbohydrates, Structure and Classification of Lipids, Fatty Acids, Storage Lipids, Glycolipids, Phospholipids, Sphingolipids, Steroids, Isoprenoids, Bile Acids, Bioenergetic and High Energy Phosphate Compounds, Biological Oxidations, Structure and Properties of Nucleotides and Nucleic Acids
Medical Biology and Genetics	
Theoretical	Cell Division and Formation of the Interphase Nucleus, Cell Cycle, Checkpoints of the Cell Cycle and Cancerization, Cell Differentiation and Apoptosis, Determination of DNA as Genetic Material, DNA Replication and its Mechanisms, Flow of Genetic Information, Genomic Organization of Prokaryotes, Operon Concept, Genomic Organization of Eukaryotes, Splicing, Mitochondrial Genetic Systems and Maternal Inheritance, Arrangement of DNA
Practical	Medical Biology Laboratory: Protein Isolation, Protein Gel Electrophoresis, Western Blotting

Clinical Skills	
Theoretical and Practical	Introduction to First Aid, Basic Life Support, Environmental Emergencies, Medical Emergencies, First Aid for Injuries, Protection from Accidents
Physiology	
Theoretical	Introduction to Physiology, Definition and Relations with other Disciplines, Homeostatic Control Systems, Body Fluids and Ion Channels, Membrane Transport Mechanisms, Membrane Receptors and Signal Transmission Mechanisms

OKAN UNIVERSITY FACULTY OF MEDICINE
2019 – 2020 ACADEMIC YEAR
PHASE I
BASIC SCIENCES SUBJECT COMMITTEE-II
(TIP 103) 8 WEEK PROGRAM
(04.11.2019 – 27.12.2019)

SUMMARY OF THE COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- BIOPHYSICS	18	-	18
2- BIOSTATISTICS	14	-	14
3- BEHAVIORAL SCIENCES	12	-	12
4- HISTOLOGY AND EMBRYOLOGY	7	4	11
5- MEDICAL BIOCHEMISTRY	20	6	26
6- MEDICAL BIOLOGY AND GENETICS	22	6	28
7- MEDICAL HISTORY AND ETHICS	8	-	8
TOTAL MEDICAL LECTURE HOURS	**101**	**16**	**117**
8- CAREER LIFE (Online Education)	14	-	14
9- ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	14	-	14
10- TURKISH LANGUAGE (Online Education)	14	-	14
11- HAPPY LIFE	14	-	14
12-TURKISH FOR FOREIGNERS	14	-	14
13- ENG111- ACADEMIC ENGLISH (Online Education)	28	-	28
TOTAL	**199**	**16**	**215**

DEAN : **Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE I : **Prof. Dr. Zuhal ALTUNKAYNAK**

VICE CHIEF COORDINATOR OF PHASE I : **Assist. Prof. Dr. Hadi KARIMKHANI**

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
BIOPHYSICS	**Assist. Prof. Dr. Hümbet AHMEDOV**
BIOSTATISTICS	**Assist. Prof. Dr. Duygu AYDIN HAKLI**
BEHAVIORAL SCIENCE	**Prof. Dr. Mustafa SERCAN**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU**
	Prof. Dr. Zuhal ALTUNKAYNAK
	Assist. Prof. Dr. Dila ŞENER
	Instructor Işınsu ALKAN
	RA Sedef ALTUNDAĞ KARA
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK**
	Prof. Dr. Gülnur ANDİCAN
	Assist. Prof. Dr. Hadi KARIMKHANI
	Assist. Prof. Dr. Sercan KAPANCIK
MEDICAL BIOLOGY AND GENETICS	**Prof. Dr. Ali SAZCI**
	Assist. Prof. Dr. Öznur B. EKMEKÇİGİL
	RA Pınar GÜLTEPE
MEDICAL HISTORY AND ETHICS	**Prof. Dr. Semih BASKAN**
	Assoc. Prof. Dr. Canan AĞARTAN
TURKISH FOR FOREIGNERS	**Instructor Sevil ACIPINAR**
ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	**Assist. Prof. Dr. Mehmet KILIÇ**
ENG111- ACADEMIC ENGLISH (Online Education)	**Instructor Papatya ÖZEN**
CAREER LIFE (Online Education)	**Instructor Mehmet AKSU**
TURKISH LANGUAGE	**Instructor Belgin KIZILÇAY**

Course Descriptions and Learning Objectives

TIP103 Basic Science Committee II (10 credits)

The purpose of this course is to identify the most accurate method for imaging the internal structures of living organisms, describe atoms, molecules, matter and tissues. Students learn and gain the ability in practicing the electrical currents on tissue in both diagnosis and therapy. Exploration of the functioning of hemoglobin as an allosteric protein; collagen, a connective tissue protein that is subject to post-translational modification; the enzymes and to describe the structures and biological functions of carbohydrates and lipids are aimed. The importance of basic terminology and background information necessary for learning the history of medicine and ethical principles relating with the medical professions are emphasized. Examination of the main component informational molecules of cell biology for establishing background for medical students are learned. From molecules to cells, students learn tissue variations and their main histological component individually.

At the end of this course, the students will be able to:

- Identify and understand differences and commonalities within diverse cultures,
- Compare the structural and functional characteristics of myoglobin and hemoglobin; describe collagen and its post-translational modification; describe the structural and functional characteristics of enzymes; describe the structures and the physiological significance's of various carbohydrates and lipids,
- Define the Hipocrates as a physician and hipocratic medicine and Galen of Pergammon, İbni Sina (Avicenna) and Razi, Pavlov and Beaumont on gastric physiology,
- Describe medicine after World War II, The Nuremberg Code and human experimentation,
- Describe atoms, molecules and matter,
- Identify the most accurate method for imaging the internal structures of living organisms,
- Explain the basic mechanisms of vision and hearing,
- Learn and gain the ability in practicing the electrical currents on tissue both in diagnosis and therapy,
- To discuss issues related to genetic code of mitochondria and cell, functional and non- functional RNA types, post-transcriptional regulation, protein synthesis steps occurring in cell, human genome organization, mutagenesis and main types, genetic control mechanisms,
- Explain histological organizations regarding common tissue types, their distribution and functions,
- Gain ability in observing the biophysical mechanisms in circulatory system and the aroused problems,
- Recognize fundamentals of biostatistics in health-related fields. Estimate population parameters from sample data and determine the appropriate test to use based on how the data was collected and outcome variable of interest,
- The student summarizes the biological effects of radiation and the basic principles of radiation safety regulations, and relates them to the physical foundations of medical imaging methods.

TIP103 Basic Science Committee II (10 credits) Course Content:

Medical Biochemistry	
Theoretical	General Properties and Classification of Enzymes, Enzyme Action Mechanisms and Kinetics, Enzyme Inhibition and Regulation of Enzyme Activity, Coenzymes, Water-Soluble Vitamins, Fat-Soluble Vitamins, Structure and Properties of Membranes, Membrane Transport Systems, Signal Transmission, Glycolysis and Oxidation of Pyruvate, Tricarboxylic Acid Cycle, Electron Transport Chain, Oxidative Transport Chain, Gluconeogenesis and Glucose Homeostasis, Glycogenesis and Glycogenolysis, Control of Glycogen Metabolism, Pentose Phosphate and Uronic Acid Pathway, Galactose Fructose and Lactose Metabolism, Metabolism of Amino Sugars and Glycosaminoglycans, Epithelial Tissue Biochemistry, Connective Tissue Biochemistry, Bone Tissue Biochemistry
Practical	Biochemistry Laboratory: Acid-Base Titration, Amino Acid Chromatography, Qualitativ Determination of Proteins and Lipids, Qualitative Determination of Carbohydrates (Color Reactio of Molish, Orsin, Benedict, Saliwanoff Purines)
Medical Biology and Genetics	
Theoretical	DNA repair Mechanisms, Transcription and Translation Mechanisms in Prokaryotes, Transcription and Translation Mechanisms in Eukaryotes, Mitosis, Meiosis, Mendelian Genetics, Genotype, Phenotype Concepts, Deviations from Mendelian Ratios, Non-Mendelian Inheritance, Inheritance Models
Behavioral Sciences	
Theoretical	Learning and Learning Theories, Thinking and Problem Solving, Basic Principles in Communication, Verbal and Non-Verbal Communication, Motivation, Listening, First Impressions, Values, Attitudes, Social and Cultural Dimensions of Attribution, Individual's Roles in Society, Me and the Others Conformity and Opposition Behaviors to the Group, Concepts of "Persuasion" and "Power" in Interpersonal Relationships, "Conflicts" and "Solutions" in Interpersonal Relationships, Attention, Love, Close Behaviors in Terms of Social Psychology, Aggression and Violence in Terms of Social Psychology
Medical History and Ethics	
Theoretical	Definition of Ethics,

	Its Functions and its Meaning, Importance and Place in Medicine, The Relationship Between Ethics, Law and Morality
Practical	Ethical Values, Values of Medicine, Virtues of Medicine, virtues of a Good Physician, Theories of Medical Ethics, Introduction to the Principles of Medical Ethics: Benevolence, Non-Abuse, Introduction to the Principles of Medical Ethics: Autonomy and Justice, Concept of Rights, Introduction to Ethical Rights
Biophysics	
Theoretical	Radiation Biophysics, Particle Radiation, Radiating Radiation, Radioisotopes, Radiobiology, Radiation Safety, Laser, Basic Concepts of Radiation Protection, Dose Limits, Principles of Time-Distance-Shielding, Protective Measures for Patients and Healthcare Workers
Biostatistics	
Theoretical	Significance Tests Basic Concepts, Significance Tests and Appropriate Test Selection, Error Level and Statistical Errors Universe, Universe Ratio Significance Test-Universe Mean Significance Test, Significance Test of the Difference Between Two Averages, Significance Test of the Difference Between Two Ratios, Chi-square Test, Parametric Test Assumptions and Non-Parametric Tests, General Approach to Multivariate Analysis
Histology and Embryology	
Theoretical	Squamous Epithelium, Gland Epithelium, Connective Tissue Histology, Cartilage Tissue Histology, Bone Tissue Histology
Practical	Histology Laboratory: Squamous Epithelium, Gland Epithelium, Connective Tissue, Cartilage Tissue, Bone Tissue, Muscle Tissue, Nervous Tissue, Skin Tissue

OKAN UNIVERSITY FACULTY OF MEDICINE
2019 – 2020 ACADEMIC YEAR
PHASE I
BASIC SCIENCES SUBJECT COMMITTEE-IV
(TIP 104) 9 WEEK PROGRAM
(23.03.2020 – 29.05.2020)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- ANATOMY	26	20	46
2- HISTOLOGY AND EMBRYOLOGY	8	-	8
3- PHYSIOLOGY	20	-	20
4- MEDICAL BIOCHEMISTRY	18	6	24
5- MEDICAL BIOLOGY AND GENETICS	8	6	14
TOTAL MEDICAL LECTURE HOURS	**80**	**32**	**112**
6- ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online Education)	14	-	14
7-TURKISH LANGUAGE	12	-	12
8- HAPPY LIFE	12	-	12
9- ENGLISH I (ENG112) (Online Education)	28	-	28
10- TURKISH FOR FOREIGNERS	12	-	12
11-TURKISH CULTURE	10	-	10
TOTAL	**168**	**32**	**200**

DEAN : Prof. Dr. Semih BASKAN

CHIEF COORDINATOR OF PHASE I : Prof. Dr. Zuhal ALTUNKAYNAK

VICE CHIEF COORDINATOR OF PHASE I : Assist. Prof. Dr. Öznur B. EKMEKÇİGİL

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
ANATOMY	**Prof. Dr. Bülent ÖZDEMİR**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU**
	Prof. Dr. Zuhal ALTUNKAYNAK
PHYSIOLOGY	**Assist. Prof. Dr. Aymen BALIKÇI**
	Assist. Prof. Dr. Zozan GÜLEKEN
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK**
	Prof. Dr. Gülnur ANDİCAN
	Prof. Dr. Murat BOLAYIRLI
MEDICAL BIOLOGY AND GENETICS	**Prof. Dr. Ender ALTIOK**
	Assist. Prof. Dr. Öznur B. EKMEKÇİGİL
	RA Pınar GÜLTEPE
TURKISH LANGUAGE	**Instructor Belgin KIZILÇAY**
ENGLISH I (ENG112)	**Instructor Papatya ÖZEN**
TURKISH FOR FOREIGNERS	**Instructor Sevil ACIPINAR**

Course Descriptions and Learning Objectives

TIP104 Basic Science Committee II (13 credits)

The purpose of this course is to gain basic terminology necessary for studying anatomy, recognize the general patterns of muscles and bones. At the end of the course, student is able to define the thoracic wall and the mediastinum and heart, arteries and veins, chambers and neural structures, pericardium and its relations. Students describe general features of pharynx, trachea, lungs, the root of neck and diaphragm. Students who complete course are expected to be able to understand and interpret all of the basic statistical methods used in scientific journals in their field of study, as well as use basic statistics in their own research. Information on the transport mechanisms through the cellular membranes, various signal transmission mechanisms, biologic oxidation and oxidative phosphorylation are emphasized. The embryology course is to provide sufficient information regarding prenatal development of human organism starting from fertilization through formation of blastocyst, neurulation, gastrulation, and organogenesis to the time of birth including monthly changes in development period, sensitivity of embryo and fetus to the common teratogenic factors. In addition, students will learn molecular mechanisms accompanying the developmental period, they gain clinically knowledge regarding developmental abnormalities, congenital birth defects and their main causes. Examination of the main component of cell biology, and genetics for establishing background for medical students are underlined. The cell biology concepts and the major type of human tissues and their explanation with the connection between morphology of particular cells and their functions are learned.

At the end of this course, the students will be able to:

- Define the thoracic wall and the mediastinum and heart, arteries and veins, chambers and neural structures, pericardium and its relations,
- Describe general features of pharynx, trachea, lungs, the root of neck and diaphragm,
- Analyze knowledge of human psychosocial development throughout the lifespan and the ways in which developmental stages can be used to understand the needs of a person whether in childhood, adolescence or in adulthood,
- Describe the solute transport mechanisms; the transmission of various signals across membranes; the enzymes functioning in biological oxidation; the elements of respiratory chain and the process of oxidative phosphorylation,
- Explain gametogenesis period, the chromosomal and genetic factors that cause the birth defects and spontaneous abortions, fertilization, implantation, the first week of development, formation of endodermal/mesodermal/ectodermal germ layers and further development of them, the fetal period, monthly changes of fetus, fetal membranes and detailed structure and functions of placenta,
- Give idea about to genetic diseases, meiotic and mitotic cell division, cell cycle regulation, cell death regulation, cancer genetics, immunogenetics,
- Name the parts of a neuron and their functions, the major classes of muscle in the body, the molecular and electrical makeup of muscle cell excitation-contraction coupling; differentiate the mechanisms for skeletal, cardiac, and smooth muscle contraction.

TIP104 Basic Science Committee IV (13 credits) Course Content:

Anatomy	
Theoretical	Superficial Back Muscles, Shoulder and Back of the Arm, Front of the Arm and Pectoral Area, Breast Anatomy and Fossa Axillaris, Plexus Brachialis, Forearm Region and Fossa Cubiti, Forearm Posterior Region, Hand Anatomy, Gluteal Region and Plexus Lumbosacralis, Back Region of the Thigh, Anterior Region of the Thigh and Adductor Muscles (Canalis Adductorius, Trigonum Femorale), Anterior and Lateral Regions of the Leg, Fossa Poplitea and the Posterior Region of the Leg, Foot Anatomy, Parotid Region, Scalp and Facial Mimic Muscles, Upper and Lower Extremity Lesions, Neck Anterior and Lateral Region, Fossa Pterygopalatina, Temporal Region and Fossa Infratemporalis, Suboccipital Region and Deep Back Muscles
Practical	Anatomy Laboratory: Superficial Back Muscles, Shoulder and Back of the Arm, Front of the Arm and Pectoral Area, Plexus Brachialis and Fossa Axillaris, Forearm Region and Fossa Cubiti, Forearm Posterior Region, Hand Anatomy, Gluteal Region, Plexus Lumbosacralis and Posterior Region of the Thigh, Anterior and Lateral Regions of the Thigh and Leg, Posterior Region of the Leg, Fossa Poplitea and Foot Anatomy, Parotid Region, Scalp and Facial Facial Muscles, Fossa Pterygopalatina, Temporal Region and Fossa Infratemporalis, Anterior and Lateral Neck Regions, Suboccipital Region and Deep Back Muscles
Histology and Embryology	
Theoretical	Muscle Tissue Histology, Nerve Tissue Histology, Skin Tissue Histology
Medical Biochemistry	
Theoretical	Amino Group Catabolism of Amino Acids and Urea Cycle, Carbon Skeleton Catabolism of Amino Acids, Non-Essential Amino Acid Biosynthesis, Conversion of Amino Acids to Special Products, Oxidation of Fatty Acids, Ketogenesis, Synthesis of Fatty Acids and Triglycerides, Phospholipid and Sphingolipid Metabolism,

	Cholesterol Metabolism, Integration of Metabolism, DNA Metabolism, Biochemistry of DNA Replication, Biochemistry of Transcription and Posttranscriptional Modification, Biochemistry of Genetic Code and Translation, Biochemistry of Posttranslational Modification, Proteolysis and Protein Turnover, Biochemical Perspective on Regulation of Gene Expression, Glycoproteins and Proteoglycans, Myoglobin and Hemoglobin, Xenobiotics
Practical	Biochemistry Laboratory: Urease, Catalase Enzyme Assay, Determination of Vitamin C, Determination of Inorganic Phosphate, Determination of Glucose in Blood
Medical Biology and Genetics	
Theoretical	Cytogenetic and Cytogenetic Methods, Chromosomal Abnormalities in Humans, Recombinant DNA Technology and Cloning Methods, FISH Diagnostic Methods, Gene Expression and Regulation, Biotechnology and Medicine, Introduction to Bioinformatics, Genome Organization and Diversity, Human Genome Project: Past, Present, Future Genetic Diseases in Humans, Mutagenesis and Carcinogenesis, Cosmic and Molecular Evolution, Evolution of Multicellularity and Sex, Human 1,2,3,4,5,6. Genetic Structure of Chromosomes, Human 7,8,9,10,11,12. Genetic Structure of Chromosomes, Human 13,14,15,16,17,18. Genetic Structure of Chromosomes, Genetic Structure of Human 19, 20, 21, 22, X, Y Chromosomes, Cultural and Genetic Evolution of Homo Sapiens
Practical	DNA Isolation From Human Lymphocytes, Electrophoresis, DNA Segmentation and Mapping and Blotting, PCR-SSCP, PCR-RFLP and Genetic Polymorphism DNA Sequencing, RNA Isolation, Electrophoresis and Northern Blotting, RT-PCR, Protein Isolation and Characterization (SDS-PAGE and MALDI) -TOF), Real-Time PCR and Its Applications DNA Sequence Analysis
Physiology	
Theoretical	Membrane Potentials, Nerve Action Potentials, Excitation and Conduction, Contraction Mechanism of Striated Muscle, Contraction Mechanism of the Heart Muscle, Neuro-Muscular Transmission, Neuromuscular Junction; Inhibition at Synapses, Facilitation with Neurotransmitters, Contraction Mechanism of Smooth Muscle, Neurotransmitters, Sensory Receptors and Conduction, Autonomic Nervous

Curriculum Phase II

1st SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	Code
TIP201	Cardiovascular and Respiratory Systems Committee	Yes	Yes	7	11
TIP203	Gastrointestinal System and Metabolism Committee	Yes	Yes	8	12
CORE201	Pre-Intermediate Academic Written English	No	No	15	3
Total:					**26**

2nd SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	Code
TIP202	Endocrine and Urogenital Systems Committee	Yes	Yes	5	10
TIP204	Nervous System Committee	Yes	Yes	7	12
TIP206	Biological Fundamentals of Diseases Committee	Yes	Yes	5	9
CORE202	Pre-Intermediate Academic Spoken English	No	No	15	3
Total:					**34**

OKAN UNIVERSITY FACULTY OF MEDICINE

2020 – 2021 ACADEMIC YEAR

PHASE II

CARDIOVASCULAR AND RESPIRATORY SYSTEM

COMMITTEE-I

(TIP 201) 7 WEEK PROGRAM

(05.10.2020 – 20.11.2020)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- ANATOMY	16	11	27
2- HISTOLOGY AND EMBRYOLOGY	10	6	16
3- MEDICAL BIOCHEMISTRY	12	6	18
4- MEDICAL MICROBIOLOGY	32	10	42
5- PHYSIOLOGY	23	6	29
TOTAL MEDICAL LECTURE HOURS	**93**	**39**	**132**
6- ACADEMIC ENGLISH (CORE 201)	Online	-	Online
7-ENTREPRENEURSHIP	12	-	12
TOTAL	**105**	**39**	**144**

DEAN **: Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE II **: Prof. Dr. Cengiz BAYÇU**

VICE CHIEF COORDINATOR OF PHASE II **: Assist. Prof. Dr. Hümbet AHMEDOV**

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
ANATOMY	**Prof. Dr. Yüksel AYDAR**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU** **Prof. Dr. Zuhal ALTUNKAYNAK**
PHYSIOLOGY	**Prof. Dr. Lamia PINAR** **Assoc. Prof. Dr. Güldal İnal GÜLTEKİN**
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK** **Prof. Dr. Gülnur ANDİCAN**
MEDICAL MICROBIOLOGY	**Prof. Dr. Ayşe Demet KAYA** **Assist. Prof. Dr. Aydın AYDINLI** **Assist. Prof. Dr. Deniz SERTEL ŞELALE**

Course Descriptions and Learning Objectives

TIP201 Cardiovascular and Respiratory System Committee (11 credits)

The purpose of this course is to gain basic anatomical knowledge of cardiovascular and respiratory systems. Students recognize the general patterns of muscles and other structures of the roots of the neck. At the end of the course, student is able to describe the anatomical features of heart, lungs, visceral and parietal coverings, mediastinum, nose, diaphragm, pharynx, larynx and trachea. Sufficient information regarding the histology and embryology of cardiovascular and respiratory systems in human body are given. The roles of plasma proteins; the biochemical pathways for synthesis and degradation of heme; the biochemical characteristics of porphyrias and jaundices and the biochemistry of erythrocytes are emphasized. Basics of medical microbiology are given. Sufficient information regarding the physiology of organ systems in human body and explanations about the physiologic mechanisms of particular systems and their functions are described. *Prerequisites: TIP101, TIP102, TIP103 and TIP104.*

At the end of this course the students will be able to:

- Define the thoracic wall and the mediastinum, heart, arteries and veins, pharynx, trachea, lungs, the root of neck and diaphragm,
- Explain the histological layers in the wall of the heart, fibrous skeleton, conducting system components in the heart; histological wall structures for large arteries, medium arteries, small arteries, capillaries and veins; the content, cellular component, the histological features of blood cells (erythrocytes, leukocytes and thrombocytes), hemopoiesis; the diffuse lymphatic tissue, lymphatic nodules, lymph nodes and their associated reticular mesh work, the general histological architecture of thymus- spleen and the detailed histological structure of the lungs,
- Define plasma proteins; discuss the structure and function of immunoglobulins; describe the acute phase reactants; describe the biosynthesis of heme; and clinical significance of porphyrias; describe the degradation of hemoglobin and the main types of jaundice; describe the cytoskeleton and the metabolic characteristics of erythrocytes,
- Define the classification of microorganisms, the morphology, structure, physiology, genetics of bacteria, culture media, stains, sterilization and disinfection, antimicrobial agents, normal microbial flora and interactions of the microbe and the host,
- Describe the structure and function of the conduction system of the heart and compare the action potentials in each part, the way the electrocardiogram (ECG) is recorded, the waves of the ECG, and the relationship of the ECG to the electrical axis of the heart; understand the pressure, volume, and flow changes that occur during the cardiac cycle. And identify the components of blood and lymph, their origins, vascular, hemotological and immune system mechanisms.

TIP201 Cardiovascular and Respiratory System Committee (11 credits) Course Content:

Anatomy	
Theoretical	Thorax Wall and Anatomy, Mediastinum, Heart and Pericardium Anatomy, Large Vessels and Formations in the Posterior Mediastinum, Diaphragm, Nose and Related Structures, Larynx and Pharynx Anatomy, Trachea and Lungs, Neck Root Anatomy Esophagus
Practical	Anatomy Laboratory: Thoracic Wall and Anatomy, Mediastinum, Heart and Pericardium, Formations in the Great Vessels and Posterior Mediastinum, Diaphragm, Nose and Related Structures, Larynx and Pharynx, Trachea and Lungs, Neck Root Anatomy and Esophagus
Histology and Embryology	
Theoretical	Cardiovascular Development, Heart Histology, Vascular Histology, Development of Fetal and Newborn Circulations, Blood Histology, Diaphragm, Hematopoiesis, Embryology and Malformations of Thymus, Spleen, Tonsils, Blood Cells that Play a Role in the Immune Response, Lymphoreticular System, Pharyngeal Arches and Facial Development, Development of the Respiratory System, Nose and Related Structures, Respiratory System Histology
Practical	Histology Laboratory: Cardiovascular, Blood Histology, Lymphoid Organs, Respiratory System
Medical Biochemistry	
Theoretical	Heart Biochemistry, Cardiac Markers, Biochemical Approach to Hematology, Erythrocyte Biochemistry, Clotting Factors
Practical	Total Protein Determination in Blood, Ketone Determination in Urine, Total Lipid and Cholesterol Determination, Preparation of Hemolysate, Determination of Hemoglobin in Urine and Blood

Medical Microbiology	
Theoretical	Introduction to Microbiology, History and Classification, Morphological Cell Structures of Bacteria, Anatomical Cell Structures of Bacteria, General Characteristics of Rickettsiae, Chlamydia and Microplasmas, Metabolism of Bacteria, Reproduction and Production of Bacteria, Bacterial Genetics, Introduction to Virology, General Characteristics and Classification of Viruses, Viral Replication and Genetics, Fungi that are Important in Human Health, Morphological Structures and Genetics of Fungi, General Characteristics of Protozoa and Helminths, Parasites Important for Human Health
Practical	Microbiology Laboratory: Morphologies and Staining Characteristics of Bacteria, Anatomical Characteristics of Bacteria (Capsule, Spore, etc.) Production and Cultural Characteristics of Bacteria Morphological and Cultural Characteristics of Fungi, Introduction of Protozoa and Helminths
Clinical Skills	
Theoretical	Clinical Skills Laboratory: Recognizing Cardiac and Respiratory Arrest, Adult Basic Life Support Application on Model
Physiology	
Theoretical	General Function of the Heart, Stimulation of the Heart and Special Conduction System, Normal ECG and ECG Changes in Arrhythmias, Biophysics of the Electrical Conduction System of the Heart and ECG, Cardiac Cycle and Heart Sounds, Cardiac Flow Volume and Affecting Factors, Systemic Circulation, Regulation of Blood Pressure, Capillary Circulation, Venous and Lymphatic Circulation, Coronary and Pulmonary Circulation, Cerebral Circulation, Pathophysiology of Shock and Hypertension, General Properties of Blood, Red Blood Cells and Red Blood Cell Production, Hemolysis, Anemia and Polycythemias, White Blood Cells and Immune Mechanisms, Platelets and Clotting Mechanisms, Anticoagulants and Fibrinolysis, Bleeding Disorders and Tests, Respiratory Mechanics, Alveolar Ventilation and Regulation of Breathing, Lung Volumes and Capacities, Conduction of Blood Gases, Periodic Respiratory and Pulmonary Disorders, Types of Hypoxias, Cyanosis and Hyperbaric Conditions,

OKAN UNIVERSITY FACULTY OF MEDICINE
2020 – 2021 ACADEMIC YEAR
PHASE II
ENDOCRINE AND UROGENITAL SYSTEM COMMITTEE-III
(TIP 202) 6 WEEK PROGRAM
(01.02.2021 – 12.03.2021)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- ANATOMY	12	8	20
2- HISTOLOGY AND EMBRYOLOGY	12	8	20
3- MEDICAL BIOCHEMISTRY	20	6	26
4- MEDICAL MICROBIOLOGY	18	2	20
5- PHYSIOLOGY	24	-	24
6- CLINICAL SKILLS	-	8	8
TOTAL MEDICAL LECTURE HOURS	**85**	**32**	**117**

DEAN : **Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE II : **Prof. Dr. Cengiz BAYÇU**

VICE CHIEF COORDINATOR OF PHASE II : **Assist. Prof. Dr. Hümbet AHMEDOV/**
Assist. Prof. Dr. Deniz SERTEL ŞELALE

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
ANATOMY	**Prof. Dr. Yüksel AYDAR**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU** **Prof. Dr. Zuhal ALTUNKAYNAK**
PHYSIOLOGY	**Prof. Dr. Lamia PINAR** **Assoc. Prof. Dr. Güldal İnal GÜLTEKİN**
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülnur ANDİCAN**
MEDICAL MICROBIOLOGY	**Assist. Prof. Dr. Aydın AYDINLI** **Assist. Prof. Dr. Deniz SERTEL ŞELALE**
CLINICAL SKILLS	**Assist. Prof. Dr. Ali Kaan ATAMAN**

Course Descriptions and Learning Objectives

TIP202 Endocrine and Urogenital System Committee (10 credits)

The purpose of this course is to gain the necessary skill and knowledge on the anatomy of the endocrine and urogenital systems and to provide sufficient information regarding the histology and embryology of endocrine and urogenital systems in human body. Information on endocrine biochemistry, body water and electrolytes, acid- base control and acid-base disorders and renal function are explained. Sufficient information regarding the physiology of organ systems in human body and explainations on physiologic mechanisms of particular systems and their functions are emphasized. Immunology and some bacteria causing human disease are described. *Prerequisites: TIP101, TIP102, TIP103 and TIP104.*

At the end of this course the students will be able to:

- Define surface anatomy and topographical landmarks of the kidney and ureters, bladder and urethra, pelvis and perineum, female and male genital organs, suprarenal glands, the thymus, the thyroid gland, the parathyroid gland,
- Explain the histological structure, functions and development process for endocrine glands, kidney, urinary bladder, urethra, organs and accessory sex glands that constitute the male reproductive system and internal and external genital organs that constitute the female reproductive system,
- Explain the general characteristics of endocrine system, the mechanisms of hormone action; describe the production, storage, release transport, metabolism and effects of hormones, the clinical features of the excess and deficiency states for hormones,
- List the main functions of the kidney; discuss the roles of kidney in electrolyte-water and acid-base balances, the abnormalities in renal function during the course of diabetes mellitus,
- Define Actinomyces, Nocardia and Mycobacterium spp, Spirochetes, Ricketsia, Chlamydia, Mycoplasma and medically important fungi and diseases caused by these microorganisms,
- Describe the structure of hormonal system, mechanisms, male and female reproductive physiology and the basic mechanisms of urological mechanisms, renal and tubular physiology.

TIP202 Endocrine and Urogenital System Committee (10 credits) Course Content:

Anatomy	
Theoretical	Kidneys and Ureters, Vesica Urinaria and Urethra, Pelvis and Perineum, Male Genital System Anatomy, Female Genital System Anatomy, Pituitary, Parathyroid, Thyroid and Adrenal Gland Anatomy
Practical	Anatomy Laboratory: Kidneyand Ureters, Vesica Urinaria and Urethra, Pelvis and Perineum, Male Genital System Anatomy, Female Genital System Anatomy, Endocrine Glands
Histology and Embryology	
Theoretical	Development of the Urinary System, Development of Male Reproductive Organs, Histology of Male Reproductive Organs, Development of Female Reproductive Organs, Histology of Female Reproductive Organs, Embryology and Malformations of the Endocrine System, Histology of the Pituitary and Pineal Glands, Thyroid and Parathyroid Glands Histology, Adrenal Gland Histology, Endocrine Pancreas and Diffuse Neuroendocrine System
Practical	Histology Laboratory: Urinary System Histology, Histology of Male Reproductive Organs, Histology of Female Reproductive Organs, Endocrine Glands
Medical Biochemistry	
Theoretical	Buffer Systems, Pregnancy Biochemistry, General Principles of Endocrine Hormones, Hypothalamus and Pituitary Hormones, Thyroid Hormones, Sex Gland Hormones, Hormones Regulating, Calcium Metabolism, Adrenal Cortex Hormones, Adrenal Medulla Hormones, Pancreatic and Gastrointestinal Tract Hormones, Prostaglandins, Hormones in Clinical Biochemistry
Practical	Biochemistry Laboratory: Protein Electrophoresis, Digestive Enzymes, Determination of Urea in Blood, Determination of Creatinine, Determination of Bilirubinand Urobilinogen in Urine,

	AST, ALT Determination, Complete Urine Analysis
Medical Microbiology	
Theoretical	Introduction to Microbiology: Host-Parasite Relationships, Normal Microflora, Virulence and Pathogenicity Factors in Microorganisms, Sterilization and Disinfection Principles, Introduction to Immunology and Immune Mechanisms, Cells that play a role in the Immune Response, Immune Mechanisms, Tissues and Organs of the Immune System, Cell Migration and Inflammation, Complement System and Activation, Structure and Properties of Antibodies, T Cell Receptors and MHC Complex, Antigen Presentation and T Cell Activation, Cytokines and Cytokine Receptors, Humoral Immune Mechanisms, Mononuclear Phagocytes in Immune Response, Cellular Cytotoxicity, Regulation of Immune Response, Immunological Tolerance and Response to Viruses, Immune Response Against Bacteria and Fungi, Vaccines and Serums, Primary and Secondary Immunodeficiency, Tumor Immunology, Transplantation Immunology, Hypersensitivity Reactions, Autoimmunityand Autoimmune Diseases, Immunological Examinations
Practical	Microbiology Laboratory: Sterilization and Disinfection, Normal Human Microflora, Antibiogram Construction and Evaluation, Immunological Examinations I-II
Clinical Skills	
Theoretical	Clinical Skills Laboratory: Hand Washing Skill, Ability to put on and take off Sterile Gloves
Physiology	
Theoretical	Physiological Anatomy and Blood Flow of the Kidney, Glomerular Filtrate Formation and Control of Filtration Rate, Urine Formation and Content, Regulation of Blood Volume and Extracellular Fluid in the Kidneys, Renal Mechanisms in the Control of Osmolality and Na Concentration, Regulation of Acid-Base Balance, Renal Function Tests, Renal Physiopathology, Male Reproductive System, Female Reproductive System
Practical	Physiology Laboratory: Pregnancy Test and Semen Analysis

OKAN UNIVERSITY FACULTY OF MEDICINE

2020 – 2021 ACADEMIC YEAR

PHASE II

GASTROINTESTINAL SYSTEM AND METABOLISM COMMITTEE-II

(TIP 203) 8 WEEK PROGRAM

(23.11.2020 – 15.01.2021)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- ANATOMY	18	12	30
2- HISTOLOGY AND EMBRYOLOGY	14	8	22
3- MEDICAL BIOCHEMISTRY	38	-	38
4- MEDICAL MICROBIOLOGY	25	6	31
5- PHYSIOLOGY	22	4	26
TOTAL MEDICAL LECTURE HOURS	**117**	**30**	**147**

DEAN : **Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE II : **Prof. Dr. Cengiz BAYÇU**

VICE CHIEF COORDINATOR OF PHASE II : **Assist. Prof. Dr. Hümbet AHMEDOV/**
Assist. Prof. Dr. Deniz SERTEL ŞELALE

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
ANATOMY	**Prof. Dr. Yüksel AYDAR**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU** **Prof. Dr. Zuhal ALTUNKAYNAK** **Assist. Prof. Dr. Dila ŞENER**
PHYSIOLOGY	**Prof. Dr. Lamia PINAR** **Assoc. Prof. Dr. Güldal İnal GÜLTEKİN**
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK** **Prof. Dr. Gülnur ANDİCAN** **Prof. Dr. Dildar KONUKOĞLU**
MEDICAL MICROBIOLOGY	**Prof. Dr. Ayşe Demet KAYA** **Assist. Prof. Dr. Aydın AYDINLI** **Assist. Prof. Dr. Deniz SERTEL ŞELALE**

Course Descriptions and Learning Objectives

TIP203 Gastrointestinal System and Metabolism Committee (12 credits)

The purpose of this course is to identify and illustrate the gastrointestinal system anatomy, recognize the patterns of mimic muscles and the parts of the gastrointestinal tract and to provide sufficient information regarding the histology and embryology of gastrointestinal system in human body. Metabolism of carbohydrates, lipids and proteins are given and the clinical situations that arise from the derangement are discussed. Sufficient information regarding the physiology of organ systems in human body and explanations about the physiologic mechanisms of particular systems and their functions are emphasized. Some bacteria and fungi causing infectious diseases are described. *Prerequisites: TIP101, TIP102, TIP103 and TIP104.*

At the end of this course the students will be able to:

- Define the mimic muscles, temporomandibular joints and muscles of mastication, abdominal wall, the great vessels and parts of the peritoneum, oesophagus, stomach, liver, gall bladder and the biliary ducts, pancreas, spleen,
- Recognize the rectum, anal canal, the inguinal canal, vessels and the nerves of the digestive tract and the portal system,
- Explain the histological features, functions and difference of the organs located in oral cavity, major salivary glands and general histological stratification pattern for esophagus, stomach, small and large intestine and explain the functions-blood supply-structural organization of liver, gallbladder, exocrine and endocrine pancreas in accordance with detailed developmental process of digestive system,
- Discuss the digestion, absorption and the metabolism of carbohydrates, proteins, and fats,
- To describe adaptive immunity, hypersensitivity reactions, immunological diagnostic tests, Gram(+)cocci, Gram(-)cocci, Gram (-)bacilli, Gram(+) bacilli and spor forming rods,
- Understand the functional significance of the gastrointestinal system, and in particular, its roles in nutrient assimilation, excretion, and immunity.

TIP203 Gastrointestinal System and Metabolism Committee (12 credits): Course Content:

Anatomy	
Theoretical	Cavum Oris and the Structures Inside it, Art. Temporamandibularis and Masticatory Muscles, Anterior Abdominal Wall, Canalis Inguinalis, Anterior Abdominal Wall Topography, Peritoneum, Stomach and Duodenum, Intestinum Crassium, Jejunum and Ileum, Rectum and Canalis Analis, Liver and Biliary Tract, Portal System and Portocaval Anastomoses, Pancreas and Spleen, Gastrointestinal System Vessels and Posterior Abdominal Wall
Practical	Anatomy Laboratory: Art. Temporomandibularis and Chewing Muscles, Anterior Abdominal Wall, Canalis Inguinalis, Peritoneum, Stomach, Duodenum, Jejunum and Ileum, Intestinum Crassium, Liver and Bile Ducts, Pancreas and Spleen, Gastrointestinal System Vessels and Posterior Abdominal Wall
Histology and Embryology	
Theoretical	Digestive System Development, Salivary Glands, Embryology and Malformations of the Liver, Gall Bladder and Pancreas, Histology of the Liver, Gall Bladder and Pancreas
Practical	Histology Laboratory: Salivary Glands, Digestive System, Liver and Gall Bladder, Pancreas
Medical Biochemistry	
Theoretical	Nitrogenous Compounds, Digestion of Carbohydrates and Fats, Transport of Digested Nutrients, Carbohydrate Metabolism, Lipid Metabolism, Amino Acid Metabolism, Protein Metabolism, Blood Proteins and Immunoglobulins, Biochemistry of Major (Macro) Elements, Porphyrin and Bile Pigments, Biochemistry of Trace Elements, Nucleotide Metabolism
Medical Microbiology	
Theoretical	Introduction and Basic Principles of Medical Microbiology, Normal Human Microflora, Virulence and Pathogenicity Factors in Microorganisms, Streptococcus Microbiology and Virulence Mechanisms Staphylococcal Microbiology and Virulence Mechanisms, Microbiology and Disease-Causing Mechanisms of Gram (+) Aerobic and Sporeless Bacilli Non-Fermentative Bacteria Microbiology and Virulence Mechanisms, Microbiology and Virulence Mechanisms of Neisseria Meningitis, Microbiology and Virulence Mechanisms of Legionella, Francisella.

	Microbiology and Virulence Mechanisms of Haemophilus and Bordotella, Microbiology and Virulence Mechanisms of Brucella, Microbiology and Disease-Causing Mechanisms of Mycobacteria (Tbc, Leprosy), Microbiology and Disease-Causing Mechanisms of Rickettsiae, Mycoplasma, Chlamydia Microbiology and Virulence Mechanisms, Actinomyces and Nocardia Microbiology, Microbiology and Disease-Causing Mechanisms of Anaerobic Bacteria, Bacteriology with Cases I-II, Oncogenic Viruses and Oncogenesis, Microbiology and Disease-Causing Mechanisms of Staphylococci, Poststreptococcal Infection Mechanisms, Introduction to Medical Virology and Basic Principles Adenoviruses, Poxviruses and the Diseases they Cause, Herpes Group Viruses and Their Disease-Causing Mechanisms, Measles, Mumps, Rubella Viruses and Their Infection Mechanisms, RSV, Parainfluenza, Coronavirus, Metapneumovirus, Arboviruses, Transmission Routes and Disease Mechanisms, Influenza Viruses Parvovirus, Rhabdoviruses and Rabies, Picornaviruses and Virulence Mechanisms, Prions and Virulence Mechanisms, General Characteristics of Oncogenic Viruses and Mechanisms in Oncogenesis, Diagnostic Methods and Evaluation of Results in Virus Diseases
Practical	Microbiology Laboratory: Normal Human Microflora, Microbiological Examination of Gram (+) Cocci and Diphtheria Bacilli, Microbiological Examination of Neisseria, Haemophilus and Anthrax Bacilli, Microbiological Examination of Anaerobic Bacteria and Mycobacteria, Microbiology Laboratory: Microbiological Examination of Viruses Diagnostic Methods Used in Viral Diseases
Clinical Skills	
Theoretical	Measuring Body Temperature from the Axillary Region, Checking The Pulse from the Radial Artery, Blood Pressure Arterial (Blood Pressure) Measurement, Nasogastric Tube Insertion Application, Venous Blood Collection from the Antecubital Region
Physiology	
Theoretical	Motor Functions of Chewingand Swallowing, General Rules of Gastrointestinal Motility, Gastric and Pancreatic Secretion, Small Intestine and Large Intestine Movements, Digestive Tract Secretions, Bile and Intestinal Secretion and Gastrointestinal Absorption, Gastrointestinal Disorders and Liver Functions, Regulation of Nutrition, Metabolic Rate, Regulation of Body Temperature
Practical	Physiology Laboratory: Biofeedback Experiment, Body-Mass Index Calculation, Calculation of Fat Percentage with Body Circumference Measurements

OKAN UNIVERSITY FACULTY OF MEDICINE
2020 – 2021 ACADEMIC YEAR
PHASE II
NERVOUS SYSTEM AND COMMITTEE-IV
(TIP 204) 7 WEEK PROGRAM
(15.03.2021 – 30.04.2021)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- ANATOMY	41	23	64
2- HISTOLOGY AND EMBRYOLOGY	12	6	18
3- MEDICAL BIOCHEMISTRY	4	-	4
4- MEDICAL MICROBIOLOGY	22	2	24
5- PHYSIOLOGY	32	4	36
6- CLINICAL SKILLS	-	2	2
TOTAL MEDICAL LECTURE HOURS	**111**	**37**	**148**

DEAN : **Prof. Dr. Semih BASKAN**

CHIEF COORDINATOR OF PHASE II : **Prof. Dr. Cengiz BAYÇU**

VICE CHIEF COORDINATOR OF PHASE II : **Assist. Prof. Dr. Hümbet AHMEDOV/**
Assist. Prof. Dr. Deniz SERTEL ŞELALE

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
ANATOMY	**Prof. Dr. Yüksel AYDAR**
HISTOLOGY AND EMBRYOLOGY	**Prof. Dr. Cengiz BAYÇU** **Prof. Dr. Zuhal ALTUNKAYNAK** **Assist. Prof. Dr. Dila ŞENER**
PHYSIOLOGY	**Prof. Dr. Lamia PINAR** **Assoc. Prof. Dr. Güldal İnal GÜLTEKİN**
MEDICAL BIOCHEMISTRY	**Prof. Dr. Dildar KONUKOĞLU**
MEDICAL MICROBIOLOGY	**Prof. Dr. Ayşe Demet KAYA** **Assist. Prof. Dr. Aydın AYDINLI**
CLINICAL SKILLS	**Assist. Prof. Dr. Ali Kaan ATAMAN**

Course Descriptions and Learning Objectives

TIP204 Nervous System Committee (12 credits)

The purpose of this course is to gain the necessary skill and knowledge on the anatomy of the nervous systems. Sufficient knowledge regarding the histology and embryology of nervous system in human body and information on cerebrospinal fluid and the neurotransmitter systems in the central nervous system including the functions of norepinephrine, dopamine, acetylcholine, serotonin, GABA and glutamate are discussed. General characteristics of viruses, classification of viruses and the infections caused by the viruses with clinical presentations, diagnosis and treatment are defined. Information regarding the physiology of organ systems in human body and explanations about the physiologic mechanisms of particular systems and their functions are emphasized. *Önkoşullar: TIP101, TIP102, TIP103 and TIP104.*

At the end of this course the students will be able to:

- Define subdivisons of the central nervous system, structure of spinal cord ascending and the descending tracts, brainstem and divisions; medulla oblongata, pons, mesencephalon, diencephalon, hypothalamus, hypophysis and the basal ganglia, thalamus, cerebral hemispheres, cerebral cortex areas, the brain ventricles, cerebrospinal fluids, vessels of the central nervous system, olfactory pathways, the limbic system and the rhinencephalon, cranial nerves. the orbit and the eyeball, the visual pathways, the ear and the vestibular system, the auditory and the vestibular pathways,
- Explain the neuron cells, supporting glial cell types, histological structure and developmental process of organs that comprise the central and peripheral nervous system, histological content of meninges and the blood-brain barrier together with the histology and embryology of integumentary system and sensory organs,
- Describe the biochemical characteristics of the blood-brain barrier in prevention of substances in blood from entering the CSF, the normal composition of cerebrospinal fluid; the relationship of CSF protein and glucose levels to their serum levels; appreciate that the high metabolic rate of the brain is dependent upon a constant supply of glucose and describe briefly the metabolism of primary neurotransmitters,
- Define the characteristics of viruses and the diseases caused by DNA, RNA viruses and prions,
- Describe the general organization of central and peripheric nevous sytem, senses, learning, memory formation, limbic sytem, basal ganglia, spinal cord, reflexes and general organization of peripheral nervous sytem, autonomic nervous system mechanisms.

TIP204 Nervous SystemCommittee (12 credits) Course Content:

Anatomy	
Theoretical	Introduction to the Central Nervous System (CNS) and General Morphology of the CNS, Medulla Spinalis, The Ascending and Descending Roads, Cerebellum and Formatio Reticularis, Cranial Nerves (I-VII), Ventricular System and Liquor Cerebrospinalis, Diencephalon, Hypothalamus, Cerebral Hemispheres, Motor and Sensory Areas, White Matter Limbic System Anatomy, Basal Ganglia, Rhinencephalon and Olfactory Tracts, Meninges and Dural Sinuses, CNS Vessels, Eye Anatomy (Bulbus Oculi, Orbita and its Contents), Visual Pathways, Ear Anatomy, Hearing Pathways, Autonomic Nervous System
Practical	Anatomy Laboratory: Medulla Spinalis, Brainstem, Cranial Nerves, Cerebellum and Vertricular System, Diencephalon and Pituitary, Limbic System, Rhinencephalon, Basal Ganglia, Meninges, Dural Sinuses and Cerebral Hemispheres, CNS Vessels, Eye Anatomy, Ear Anatomy
Histology and Embryology	
Theoretical	Development of the Nervous System, Histology of the Nervous System, Brain Stem, Eye Development, Eye Histology, Ear Development, Ear Histology Adult Stem Cells
Practical	Histology Laboratory: Nervous System Histology, Skin Histology
Medical Biochemistry	
Theoretical	Muscle Tissue Biochemistry, Nervous Tissue Biochemistry, Vision Biochemistry
Medical Microbiology	
Theoretical	Superficial Mycoses and Infection Mechanisms, Spirochetes and Infection Mechanisms, Subcutaneous Mycosis, Opportunistic Mycoses and Infection Mechanisms, Neisseria Gonorrhoeae and Infection Mechanisms, Mycoplasma, Ureaplasma, Chlamydia and Their Infection Mechanisms, Polymomavirus, Papillomavirus and Their Infection Mechanisms, HIV (Human Immunodeficiency Virus) and its Infection Mechanisms

Practical	Microbiology Laboratory: Dermatophytes and Opportunistic Mycoses Agents
Clinical Skills	
Theoretical	Urinary Catheterization Application in Men and Women, Intramuscular Injection Application in the Gluteal Region, Injection Application Under the Skin in the Shoulder Area, Preparation of Drugs in Ampoules for Injection, Preparation of the Drugs in the Vial for Injection, Preparation of Liquids in Bags for Intravenous Infusion, Introduction to Sterilization and Disinfection Concepts, Infection Risk Classification and Sterilization Practices of Medical Devices and Materials
Physiology	
Theoretical	General Structure of the Nervous System, Nerve Fiber Types, Synaptic Transmission and Synaptic Remodeling, Somatic Senses and Somatosensory Cortex, Motor Functions of the Spinal Cord, Reflex Arc and Reflexes, Outgoing Pathways and Features of the Spinal Cord, Physiological Role of the Brain Stem, Cortical Control of Motor Functions, Pyramidal and Extrapyramidal System, Functions of the Cerebellum, Basal Ganglia and Hypothalamus, Limbic System Physiology, Functions of Specific Cortex Areas, Learning and Memory, Dominant Hemisphere Concept and Speech, Brain Electrical Waves, Sleep and Wakefulness, Epilepsy and the Blood Brain Barrier, Physics Principles of Vision, Cerebrospinal Fluid Formation and Functions, Neuronal Function of the Retina, Central Vision, Neurophysiology of Hearing, Sense of Taste and Smell
Practical	Physiology Laboratory: Examination of Reflexes in Humans and Frogs, Total Reflex and Reaction Time Measurement EEG, EMG, Polysomnography, Detection of Visual Field and Blind Spot, Visual Acuity and Color Blindness, Hearing Tests

OKAN UNIVERSITY FACULTY OF MEDICINE
2020 – 2021 ACADEMIC YEAR
PHASE II
BIOLOGICAL FUNDAMENTALS OF DISEASE COMMITTEE-V
(TIP 206) 6 WEEK PROGRAM
(03.05.2021 – 11.06.2021)

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- MEDICAL BIOCHEMISTRY	14	-	14
2- MEDICAL MICROBIOLOGY	18	2	20
3- MEDICAL PHARMACOLOGY	21	-	21
4- PATHOLOGY	17	-	17
TOTAL MEDICAL LECTURE HOURS	70	2	72
5- ACADEMIC ENGLISH (Core 202)	32	-	32
TOTAL	102	2	104

DEAN : **Prof. Dr. I. Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE II : **Prof. Dr. Cengiz BAYÇU**

VICE CHIEF COORDINATOR OF PHASE II : **Assist. Prof. Dr. Kevser ATALIK /**
Assist. Prof. Dr. Hümbet AHMEDOV

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	**LECTURERS**
MEDICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK** **Assist. Prof. Dr. Sercan KAPANCIK**
MEDICAL MICROBIOLOGY	**Prof. Dr. Ayşe Demet KAYA** **Assist. Prof. Dr. Aydın AYDINLI** **Assist. Prof. Dr. Kevser ATALIK**
MEDICAL PHARMACOLOGY	**Assist. Prof. Dr. Fuat Nihat ÖZAYDIN**
PATHOLOGY	**Prof. Dr. Ayşe Nimet KARADAYI**

Course Descriptions and Learning Objectives

TIP206 Biological Fundamentals of Diseases Committee (9 credits)

The purpose of this course is to give information on inborn errors of metabolism; clinical application of enzymes; free radicals, antioxidants and oxidative stress; the effects of mitochondrial DNA mutations and the relationship of type 2 Diabetes mellitus with obesity and the metabolic syndrome and finally a biochemical approach to aging is presented. Parasitic infections are described by reviewing the causes of human parasitic infections, their characteristics and the clinical manifestations. Basic perspective to understand the basic pathology concepts and introduce the basic type pathological processes with basic pathological events and processes with and histopathological perspective are reviewed and supported with lab sessions. General epidemiological and pathophysiological aspects of cancer will be reviewed. Definitions regarding drug, pharmaceutical forms, routes of administration, the absorption of the applied changes on the body and the basic concepts related to excretion during the course of processing are discussed. In addition, the students gain knowledge about of the concept of receptor and post-receptor events and mechanisms of action of drugs. Students taking the course will learn the rules of pharmacokinetics and pharmacodynamics in general before examining specific groups of drugs. They will have information about principles of prescribing, the rational use of medicines, pharmacovigilance and pharmacogenetics. *Prerequisites: TIP101, TIP102, TIP103 and TIP104.*

At the end of this course the student will be able to:

- List disorders of metabolism of amino acids, fatty acids and carbohydrates including the laboratory investigations; state the biologic function of the clinically significant enzymes; identify the main sources of oxygen radicals in the body, describe the effects of ROS on biomolecules and the diseases associated; describe the defense mechanisms that protect against radical damage; discuss the biochemical features of type 2 Diabetes mellitus, obesity, the metabolic syndrome and aging,
- Define the general characteristics of parasites, classification, pathology, clinical presentations, diagnosis, treatment, prevention and epidemiology of infectious diseases caused by protozoa, helmints and arthropods,
- Define cell injury and the mechanisms, hyperplasia, hypertrophy, atrophy and metaplasia, hemostasis and thrombosis thromboembolism, ischemia and infarct hemorrhagic considerations, acute and chronic inflammation, properties of benign and malign neoplasias, epithelial and non-epithelial tumors; steps of cancer generation,
- Classify the stages of drug development and naming, pharmaceutical forms of medications,
- Explain pharmacokinetic, pharmacodynamic properties, pharmacovigilance, pharmacogenetics, toxicology and drug side effects,
- Explain the principles of drug use in special situations such as pregnancy, lactation and old age,
- Illustrate prescribing rules and the rational use of medicines.

TIP206 Biological Fundamentals of Diseases Committee (9 credits)

Medical Biochemistry	
Theoretical	Body Fluids, Urinary Tract, Kidney Functions, Clinical Importance of Enzymes, Liver Functions, Muscle and Bone Functions, Preventing Errors in Clinical Biochemistry Analyses, Cancer, Cancer Genes and Growth Factors, Tumor Markers, Cytokines, Biochemical Basis of Neuropsychiatric Disorders
Medical Pharmacology	
Theoretical	Introduction to Pharmacology and General Definitions, Mechanisms of Action of Antibiotics, Resistance Mechanisms Against Antibiotics, Absorption of Drugs, Places of Application of Drugs, Distribution of Drugs, Metabolism of Drugs, Excretion of Drugs; Receptor Concept in Pharmacology and Drug-Receptor Interaction, Dose-Concentration Effect Relationship, Mechanisms of Action of Drugs, Factors that Change the Effect of Drugs and Bioavailability, Drug Interactions, Toxic Effects of Drugs, Basic Principles in Thetreatment of Drug Poisoning, Pharmacogenetics, Pharmaceutical Forms of Drugs, Histamine and Antihistamines, Prostaglandins and Leukotrienes, Biological Amines and Peptide Structured Autocoids, Drugs that Regulate the Immune System, Serotonin and Antiserotonergic Drugs, Nitric Oxide and Endothelin-1, Using Medicine with Care
Medical Microbiology	
Theoretical	Microbiology of Gram (-) Enteric Bacteria, Salmonella, Shigella, Yersinia Microbiology and Pathogenic Mechanisms, Disease-Causing Mechanisms of Non-Fermentative Bacteria, Microbiology and Virulence Mechanisms of Vibrios, Microbiology of Campylobacter and Helicobacter, Rotavirus, Norwalk Virus and other Caliciviruses, Classification of Hepatitis Viruses, General Characteristics, Introduction to Medical Parasitology and Basic Principles, Urogenital and Gastrointestinal System Protozoa, Toxoplasma Gondii and Toxoplasmosis, Parasitic Disease Agents that cause Fever and Anemia (Plasmodium Spp, Babesia Spp, Leishmania Spp.), Cestodes and Their Diseases, Nematodes and Their Diseases, Trematodes and Their Diseases, Arthropods and Their Medical Importance, Opportunistic Parasites, Immune Response to Parasites
Practical	Microbiology Laboratory: Microbiological Examination of Enteric Bacteria I-II, Stool Examination Methods and Examination of Intestinal Protozoa,

	Microbiology of Spiral and Coiled Bacteria, Blood Preparation Preparation, Staining, Examination of Blood and Tissue Protozoa, Examination of Nematodes, Cestodes, Trematodes and Arthropods
Pathology	
Theoretical	Introduction to Pathology, Its Historical Development and Basic Principles, Cell Injury, Cellular Adaptation Mechanisms and Cellular Aging, Apoptosis, Intracellular Accumulations and Pathological Calcification, Immunopathology, Cellular Aging, Exposure to Radiation and Physical Agents, Hemodynamic Disorders

Curriculum Phase III

1st SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	ECTS
TIP301	Neoplasia and Hematopoietic Systems Diseases Committee	Yes	Yes	4	8
TIP303	Microorganism and Their Diseases Committee	Yes	Yes	4	8
TIP305	Cardiovascular and Respiratory Systems Diseases Committee	Yes	Yes	5	9
TIP307	Gastrointestinal System Diseases Committee	Yes	Yes	4	8
Total:					**33**

2nd SEMESTER COURSE PLAN

Code	Course Title	*C	**A	Duration (Week)	ECTS
TIP302	Urogenital and Endocrine System Diseases Committee	Yes	Yes	6	9
TIP304	Neuroscience, Psychiatry and Musculoskeletal System Diseases Committee	Yes	Yes	7	10
TIP306	Public Health, Forensic Medicine and Medical Ethics	Yes	Yes	4	8
Total:					**27**

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
NEOPLASIA AND HEMATOPOETIC SYSTEM DISEASES COMMITTEE-I
(TIP 301) 4 WEEK PROGRAM
(04.10.2021 – 29.10.2021)

SUMMARY OF THE COMMITTEE

DISCIPLINE	THEORETICAL	PRACTICAL	TOTAL
1- CLINICAL BIOCHEMISTRY	6	-	6
2- CHEST DISEASES	2	-	2
3- EAR, NOSE AND THROAT	2	-	2
4- GENETICS	4	-	4
5- INTERNAL MEDICINE	6	-	6
6- ONCOLOGY	3	-	3
7- MEDICAL PHARMACOLOGY	6	-	6
8- NUCLEAR MEDICINE	4	-	4
9- PATHOLOGY	10	2	12
10- PEDIATRICS	12	-	12
11- FAMILY MEDICINE	4	-	4
MEDICAL LECTURES TOTAL HOURS	**59**	**2**	**61**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Nilay ETİLER**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI / Assist. Prof. Dr. Sercan KAPANCIK**

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
CLINICAL BIOCHEMISTRY	Prof. Dr. Gülden BURÇAK Prof. Dr. Gülnur ANDİCAN
CHEST DISEASES	Assoc. Prof. Dr. Fidan YILDIZ
EAR, NOSE AND THROAT	Prof. Dr. Ozan Seymen SEZEN
GENETICS	Assist. Prof. Dr. Öznur B. EKMEKÇİGİL
INTERNAL MEDICINE	Assist. Prof. Dr. Hasan AÇIK
ONCOLOGY	Assist. Prof. Dr. Tayfun HANCILAR Assist. Prof. Dr. Sedenay OSKEROĞLU KAPLAN
MEDICAL PHARMACOLOGY	Prof. Dr. Semil Selcen GÖÇMEZ Assist. Prof. Dr. Fuat Nihat ÖZAYDIN
NUCLEAR MEDICINE	Prof. Dr. Kerim SÖNMEZOĞLU
PATHOLOGY	Prof. Dr. Nimet KARADAYI Assist. Prof. Dr. Ali KOYUNCULAR
PEDIATRICS	Prof. Dr. Emin ÜNÜVAR Assoc. Prof. Dr. Şenol BOZDAĞ Assist. Prof. Dr. Sultan KABA
FAMILY MEDICINE	Prof. Dr. Dilek TOPRAK

TIP301 Neoplasia and Hematopoietic Systems Diseases Committee (8 Credits)

The purpose of this course is to learn the genetic mechanisms and the clinical features of the neoplastic and hematologic system diseases; the pathologic basis of them; the diagnostic tools in radiology and nuclear medicine, and the medical (pharmacological) and surgical treatment modalities for these diseases. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Understand the normal structures and functions of human body,
- Develop clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge,
- Describe the features of the medications used for the treatment of the neoplastic and the hematolologic diseases,
- Learn laboratory techniques in hematology, special diagnostic methods and their interpretation,
- Understand the role and methods of biopsy in hematological and neoplastic disases,
- Describes the medical and radiation oncology methods used in neoplastic and hematological diseases,
- Gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center.

TIP301 Neoplasia and Hematopoietic Systems Diseases Committee (8 Credits) Course Content:

Clinical Biochemistry	
Theoretical	Hemoglobinopathies And Thalassemias, Biochemical Aspects Of Anemia, Circulating Tumor Markers: Basic Concepts And Clinical Applications
Thoracic Surgery	
Theoretical	Thorax Surgical Anatomy, Physical Examination and Diagnostic Methods, Solitary Pulmonary Nodule, Thoracic Wall Diseases, Mediastinum and Surgical Diseases, Thoracentesis (on Model), Approach to Chest Trauma, Emergencies, Pneumothorax, Foreign Body Aspirations, Thoracic Outlet Syndrome, Trachea Diseases, Tube Thoracostomy (on the Model), Surgical View of Lung Cancer, Cystic and Cavitary Diseases of the Lung, Hydatid Cyst, Reading AC Radiograph, Malignant Pleural Effusion and Mesothelioma, PrimaryHyperhidrosis and Thoracic Sympathectomy, Diaphragm Diseases and Hernias, Empyema, Bronchiectasis, Suppurative Diseases of the Lungs, Benign Diseases of the Esophagus
Ear, Nose and Throat	
Theoretical	Head And Neck Tumors
Genetics	
Theoretical	Diagnostic Methods of Genetic Diseases, Emerging Gene Technologies, Chromosomal Diseases, Cancer Genetics and Immunogenetics, Single Gene Diseases, Non-Mendelian Inheritance
Hematology	
Theoretical	Hematopoietic System and Approach to Anemias, Iron Deficiency Anemia in Adults, Hemolytic Anemias in Adults, Hematological Changes in Systemic Diseases, Hemostasis and Disseminated Intravascular Coagulation, Plasma Cell Disease, Bone Marrow Failure Tables, Chronic Myeloproliferative Neoplasms, Acute Leukemia, Lymphocytosis and CLL
Internal Medicine	
Theoretical	Microcytic Anemia, Normocytic Anemia, Macrocytic Anemia, Blood Groups and Transfusion, Megaloblastic Anemias Hemostasis Disorders, Thrombocytopenia And Platelet Dysfunction
Medical Oncology	

Theoretical	Introduction to Medical Oncology, Adult Patient Anamnesis in Adult Patients, The Pathophysiology Of Cancer
Medical Pharmacology	
Theoretical	Mechanisms of Action of Antibiotics, Mechanisms of Resistance to Antibiotics, Antiviral Drugs, Basic Properties of Chemotherapeutics, Pharmacokinetic and Pharmacodynamic Approach, Beta Lactam Antibiotics, Penicillins, Sulfonamides, Cotrimaxazole, Fluoroquinolones, Cephalosporins and other Beta-Lactam Antibiotics, Glycopeptide Antibiotics, Nitroimidazoles, Polymyxins, Tetracyclines and Chloramphenicol, Antibiotics and Others Used Against Fungi, Antiseptics and Disinfectants, Drugs Used in the Treatment of Tuberculosis and Other Mycobacterial Infections, Macrolides, Lincosamides and Streptogramins, Aminoglycosides, Drugs used in Cancer Treatment, Medicines used Against Anemia
Nuclear Medicine	
Theoretical	Introduction to Nuclear Medicine, Scintigraphic Imaging in Oncology, Radionuclide Treatments in Oncology
Pathology	
Theoretical	Introduction to Hematopathology and Reactive Lymph Node Diseases, Hematopoietic System Infections, Lymphoproliferative Diseases and Lymphomas, Myeloproliferative Diseases, Plasma Cell Diseases and Leukemias, Neoplasia I (Definitions, Benign-Malignant Distinction), Molecular Basis of Cancer and Carcinogenesis, Neoplasia II (Grading, Staging, Epidemiology) Carcinogenic Factors
Theoretical	Pathology Laboratory: Hematopathology, Lymphoproliferative and Myeloproliferative Diseases Cell Damage, Substance Accumulations Microscopic Examples of Acute and Chronic Fire, Microscopic Examination of Benign-Malignant Neoplasia Samples, Neoplasia Staging
Pediatrics	
Theoretical	Hematopoiesis, Red Blood Cell Metabolism and Enzyme Deficiencies, Immune Deficiency in Children, Anemias Related to Malnutrition in Children, Phagocytic System and Complement System Diseases in Childhood, Hemolytic Anemias in Children, Hemoglobinopathies, Bleeding Diathesis and Hemophilias
Radiation Oncology	
Theoretical	Clinical Radiation Oncology Physics; Head and Neck Cancers, Childhood Cancers, Leukemias and Lymphomas

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
UROGENITAL AND ENDOCRINE SYSTEM DISEASES
COMMITTEE-V
(TIP 302) 6 WEEK PROGRAM
(14.02.2022 – 25.03.2022)

SUMMARY OF THE COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- GENERAL SURGERY	5	1	6
2- INTERNAL MEDICINE (NEPHROLOGY)	17	-	17
3- INTERNAL MEDICINE (ENDOCRINOLOGY)	13	-	13
4- GYNECOLOGY AND OBSTETRICS	15	-	15
5- CLINICAL BIOCHEMISTRY	2	-	2
6- NUCLEAR MEDICINE	3	-	3
7- PATHOLOGY	21	4	25
8- PEDIATRICS	4	-	4
9- RADIOLOGY	3	-	3
10- MEDICAL PHARMACOLOGY	14	-	14
11- UROLOGY	3	-	3
MEDICAL LECTURES TOTAL HOURS	**100**	**5**	**105**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Dilek TOPRAK**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI /**
Assist. Prof. Dr. Sercan KAPANCIK/
Lecturer Doğukan ÖZBAY

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
GENERAL SURGERY	**Prof. Dr. Semih BASKAN** **Assist. Prof. Dr. Taner KIVILCIM** **Assist. Prof. Dr. Ferhat FERHATOĞLU** **Assist. Prof. Dr. Kaan GÖKÇE**
INTERNAL MEDICINE	**Assoc. Prof. Dr. Fidan YILDIZ** **Assoc. Prof. Dr. Yusuf AYDIN** **Assist. Prof. Dr. Hasan AÇIK**
GYNECOLOGY AND OBSTETRICS	**Prof. Dr. Ayşe Ender YUMRU** **Prof. Dr. Levent TÜTÜNCÜ** **Assist. Prof. Dr. Servin ERGIN** **Assist. Prof. Dr. Gökçenur GÖNENÇ**
CLINICAL BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK**
NUCLEAR MEDICINE	**Prof. Dr. Kerim SÖNMEZOĞLU**
PATHOLOGY	**Prof. Dr. Nimet KARADAYI** **Prof. Dr. Ahmet MİDİ**
PEDIATRICS	**Prof. Dr. Ayşe ÖNER**
RADIOLOGY	**Assist. Prof. Dr. Üyesi Fatih Karagüzel** **Assist. Prof. Dr. Kaan Alişar**
MEDICAL PHARMACOLOGY	**Prof. Dr. Semil Selcen GÖÇMEZ** **Assist. Prof. Dr. Fuat Nihat ÖZAYDIN**
UROLOGY	**Assist. Prof. Dr. Erkan ERBAY** **Assist. Prof. Dr. Ali YILDIZ**

TIP302 Urogenital and Endocrine System Diseases Committee (9 Credits)

The purpose of this course is to recognize endocrine and urogenital systems diseases, learn their pathogenesis and treatment. Students learn to take the story and the examination methods and develop their clinical skills on simulated patients. Diagnostic techniques related with endocrine and urogenital systems diseases and the application of these methods are discussed. Genetic screening issues, organ transplantation, approach to the renal insufficiency, malign and vascular diseases of the endocrine and genitourinary systems diseases; life threatening conditions like thyroid storm, miscarriages, complicated pregnancies are discussed. Long term maintenance of the pediatric renal or endocrine patients are discussed. Clinical problem solving in cases with acid-base imbalance are given. The pathological basis of these problems are reviewed in detail. A special emphasizes given to general principle of pathophysiological basis of diseases. Diagnostic modalities and different techniques of imaging methods related with the diseases entities are also learned. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Diagnosis normal and pathological structures of the urogenital system,
- Knows the pathophysiology of endocrine and urogenital system diseases,
- Define Hypothalamo-Hypophysial System,
- Explain the general characteristics of endocrine system, the mechanisms of hormone action; describe the production, storage, release transport, metabolism and effects of hormones, the clinical features of the excess and deficiency states for hormones,
- Describe acute and chronic renal failure and their treatment,
- Defines Diabetes mellitus, knows the type of DM, diagnosis and treatment,
- Explain family planning methods, pregnancy status and diagnosis, birth and puerperium,
- Describe obstetric and gynecological emergencies and explain diagnosis and treatment,
- Explain the effects of drugs used in endocrine and urogenital system diseases, their side effects, doses and drug interactions,
- Gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center.

TIP302 Urogenital and Endocrine System Diseases Committee (9 Credits) Course Content:

General Surgery	
Theoretical	Semiology of Liver and Pancreas Disease; Semiology of Gallbladder and Biliary Diseases, Thyroid- Parathyroid Examination, Semiology of Breast Disease, Breast Examination
Internal Medicine (Nephrology+Endocrinology)	
Theoretical	Kidney Function Tests, Acute and Chronic Renal Failure, Kidney and Hypertension, Adult Fluid Electrolyte Acid and Base Disorders, Pigmenturia, Anuria, Clinical Syndromes in Nephrology, Nephrotic Syndrome and Edema, Polyuric Syndromes, Tubulointerstitial Nephritis, Hematuria and Proteinuria, Definitions in Endocrinology, Diabetes Insipidus and Inappropriate ADH Syndrome, Pituitary Disorders, Thyroid Hormone Synthesis and Diagnostic Tests, Euthyroid Goiter, Thyroid Neoplasms, Thyrotoxicosis and Hyperthyroidism, Hypothyroidism, Calcium Metabolism, Hypo- and Hypercalcemia, Addison's Disease, Osteoporosis, Cushing's Syndrome, Osteomalacia and Paget's Disease, Pheochromocytoma, Diabetes Mellitus, Acute Complications of Diabetes, Chronic Complications of Diabetes, Hyperlipidemia, Hormonal Contraception, Non-Hormonal Contraception, Dysfunctional Bleeding
Gynecology and Obstetrics	
Theoretical	Menstruation Physiology and Ovulation, Premenstrual Syndrome and Dysmenorrhea, Ovulation Disorders, Polycystic Ovary Syndrome, Hyperandrogenism, Amenorrhea, Endometriosis, Pregnancy Formation, Pregnancy Endocrinology, Fetus and Placenta Physiology, Maternal Physiology, Lactation Physiology, Normal Birth Physiology and Mechanism, Patient Examination, Symptoms and Diagnostic Methods in Gynecology, Pregnant Examination Methods, Screening Tests and Evaluation of Fetal Well-Being in Obstetrics, Menopause, Diagnostic Methods in Infertility
Clinical Biochemistry	
Theoretical	Biochemical Evaluation of Metabolic Bone Disease
Nuclear Medicine	
Theoretical	Radionuclide Treatments in Endocrine System and Urogenital Systems
Pathology	
Theoretical	Introduction to Urinary Systempathology and Congenital Developmental Disorders of the Kidney, Pathology of Glomerulonephritis, Tubulointerstitial Diseases Pathology, Vascular Diseases of the Kidney, SLE and Amyloidosis, Pathology of Kidney Tumors,

	Pathology of Prostate Diseases, Pathology of Bladder and Urethra Diseases, Diseases of Testicles, Penis and Scrotum, Pathology of the Pineal Gland and Pituitary Diseases, Goiter, Thyroiditis, Causes of Hypo- and Hyperthyroidism, Thyroid Tumors and MEN, Parathyroid Diseases, Adrenal Gland Diseases, Pathology of Endocrine Pancreas and Diabetes Mellitus, Breast Diseases, Vulva and Vagina Diseases, Pathology of Uterus and Uterine Tube Diseases, Cervix Diseases, Ovarian Disease Pathology, Placental and Trophoblastic Diseases
Practical	Pathology Laboratory: Urinary System Pathology, Vascular Diseases of the Kidney, SLE and Amyloidosis, Pathology of Kidney Tumors, Pathology of Bladder and Prostate Diseases, Pathology of Testicles, Penis and Scrotum Diseases, Pathology of Pineal Gland and Pituitary Diseases, Pathology of Tyroid and Parathyroid Gland Diseases, Pathology of Pancreas and Adrenal Gland Diseases, Pathology of Breast Diseases, Pathology of Uterus and Tube Uterine Diseases, Pathology of Cervix Diseases, Pathology of Vulva and Vaginal Diseases, pathology of Ovarian Diseases, Placental Diseases Pathology
Pediatrics	
Theoretical	Fluid-Electrolyte, Acid and Base Disorders in Children, Acute Kidney Failure in Children, Hypertension in Children, Poststreptococcal Acute Glomerulonephritis, Vasculitis and Kidney, Nephrotic Syndrome in Children, Urinary Tract Infections in Children, Hypothalamus and Pituitary Diseases in Children, Congenital Hypothyroidism, Calcium and Phosphorus Metabolism Disorders in Children, Diabetes in Childhood, Childhood Hypoglycemia, Ambigius Genitale and Adrenogenital Syndrome, Childhood Obesity (Obesity), Growth Disorders, Puberty Disorders
Radiology	
Theoretical	Introduction to Urinary System Radiology, Introduction to Male Reproductive System Radiology, Introduction to Endocrine System Radiology, Introduction to Female Reproductive System Radiology
Medical Pharmacology	
Theoretical	Diuretic Drugs, Drugs used in Fluid Electrolyte Imbalance Disorders, Drugs used in Acid-Base Imbalance Disorders and Solutions that Expand Plasma Volume, Renin-Angiotensin-Aldosterone System Pharmacology, Drugs used in the Treatment of Urinary Infections, Introduction to Endocrine System Pharmacology, Pituitary and Hypothalamic Hormones,

	Thyroid Hormones and Antithyroid Drugs, ACTH and Corticosteroids, Drugs used to Regulate Calcium Balance, Insulin and other Drugs Used Against Diabetes, Androgens and Antiandrogenic Drugs, Estrogens, Progestins and Antagonists, Drugs that Increase the Mobility of the Uterine Smooth Muscle, Oral Contraceptive Medications
Urology	
Theoretical	Urinary System Semiology and Symptomatology, Micturition Physiology, Incontinence and Neurogenic Bladder, Nonspecific Infections of the Urinary System, Specific and Sexuallytransmitted Infections of the Urinary System, Urinary System Stone Disease, Benign Prostatic Hyperplasia, Prostate Cancer, Bladder Tumors and Urothelial Tumors, Reproduction and Infertility

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
MICROORGANISM AND THEIR DISEASES
COMMITTEE-II
(TIP 303) 4 WEEK PROGRAM
(01.11.2021 – 26.11.2021)

SUMMARY OF THE COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- INFECTIOUS DISEASES	6	-	6
2- GENERAL SURGERY	4	2	4
3- OPHTHALMOLOGY	8	-	8
4- EAR, NOSE AND THROAT	4	-	4
5- NUCLEAR MEDICINE	1	-	1
6- PATHOLOGY	10	2	12
7- PEDIATRICS	8	-	8
8- MEDICAL PHARMACOLOGY	18	-	18
9- CLINICAL MICROBIOLOGY	3	-	3
10- PLASTIC SURGERY	3	-	3
MEDICAL LECTURES TOTAL HOURS	**65**	**4**	**69**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Nilay ETİLER**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI /**
Assist. Prof. Dr. Sercan KAPANCIK

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
INFECTIOUS DISEASES	**Dr. Servet ÖZTÜRK**
GENERAL SURGERY	**Assist. Prof. Dr. Taner KIVILCIM** **Assist. Prof. Dr. Ferhat FERHATOĞLU** **Assist. Prof. Dr. Kaan GÖKÇE**
OPHTHALMOLOGY	**Assist. Prof. Dr. Serdar ÖZATEŞ**
EAR, NOSE AND THROAT	**Prof. Dr. Ozan Seymen SEZEN**
NUCLEAR MEDICINE	**Prof. Dr. Kerim SÖNMEZOĞLU**
PATHOLOGY	**Prof. Dr. Nimet KARADAYI** **Prof. Dr. Ahmet MİDİ**
PEDIATRICS	**Prof. Dr. Emin ÜNÜVAR** **Prof. Dr. Ayşe ÖNER** **Prof. Dr. Ahmet AKÇAY** **Dr. Serkan ATICI**
MEDICAL PHARMACOLOGY	**Prof. Dr. Semil Selcen GÖÇMEZ** **Assist. Prof. Dr. Fuat Nihat ÖZAYDIN**
CLINICAL MICROBIOLOGY	**Assist. Prof. Dr. Aydın AYDINLI**
PLASTIC SURGERY	**Dr. Barış ÇİN**

TIP303 Microorganisms and Their Diseases Committee (8 Credits)

The purpose of this course is to learn the genetic mechanisms of the infectious diseases in children and adults; the clinical and pathological features of them and the correlation of them with the microorganisms. Each student gains knowledge about the medical (pharmacological) and surgical treatments of these diseases and certain laboratory techniques. This course also describes some infectious diseases with their pathogenesis, clinical characteristics, diagnosis, treatment, prevention. Clinical skills are gained before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Define the pathogenesis of infections, approach to the patient, interpret the laboratory results and some clinically important infections,
- Define normal floras of the human body and describe changings of normal flora in pathological conditions,
- Explain parasitologic infestations and regional distribution and specifications of them; diagnostic inquiry and treatment of parasitic conditions,
- Describe viral infections and preventative measures in viral infections. Treatment of viral conditions,
- Define sterilization and other hygiene methods,
- Explain effects and side effects of antibiotics and other treatment modalities,
- Explain the surgical methods used in the treatment of infectious diseases,
- Gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center.

TIP303 Microorganisms and Their Diseases Committee (8 Credits) Course Content:

Pediatrics	
Theoretical	Approach to Child with Fever, Skin Rashes in Children, Vaccines in Pediatrics, Vaccination Program, Vaccination Problems, Urinary Tract Infections, The Basic Structure of the Immune System, Immunodeficiencies, Rash Infections, Intrauterine Infections, Epidemiological and Genetic Characteristics and Biopsy of Childhood Cancers, Treatment Principles in Childhood Cancers
Clinical Microbiology	
Theoretical	Principles of Diagnostic Medical Microbiology, Infections in Special Hosts, Laboratory Findings in Infectious Diseases, Pathogenesis of Infectious Diseases, History and Principles of Blood Banking and Transfusion, Screening Tests in Blood Banking, Blood Products and Labelling
Ophthalmology	
Theoretical	Anatomy of the Eye and Orbit, Optics and Light, Red Eye and Differential Diagnosis, Ocular Trauma, Infections of the Eye, Ocular Fundus Examination
Infectious Diseases	
Theoretical	Anamnesis and Physical Examination in Infectious Diseases, Routine and Specific Diagnostic Methods in the Diagnosis of Infectious Diseases, Fever and Fever of Unknown Origin, General Characteristics of Hospital Infections, Nosocomial Infections, Septic Shock, Systemic Diseases Caused by Parasites, Laboratory Diagnosis in Parasitic Diseases, Jaundice due to Infections, Infectious Diarrhea, Sexually Transmitted Diseases, Urinary Tract Infections, Specific / Non-Specific Infections of the Urinary System, HIV, AIDS Clinical Features, Laboratory Diagnosis, Rabies, Tetanus Approach to Respiratory Tract Infections
Ear, Nose and Throat	
Theoretical	Principles of Diagnosis and Treatment in ENT Infections, Pharynx and Deep Neck Infections, Autogenic and Rhinogenic Infections, Future Concepts in ENT Infectious Diseases
Medical Pharmacology	
Theoretical	Principles of Antimicrobial Therapy, Antifungal Drugs, Antiprotozoal Drugs, Antimycobacterial Drugs, Antiseptics and Disinfectants, Anthelmintic Drugs, Cell Wall Inhibitors, Antiviral Drugs, Quinolones, Folic Acid Antagonists, Urinary Tract Antiseptics Treatment of HIV Infection, Drug Used in Dermatological Disease,

	Protein Synthesis Inhibitors, The Module also Includes Principles of Medical Hygine and Infection Control, Topics Cover Sterilization and Disinfection Methods, Hand Hygiene, Hospital-Acquired Infections and Preventetion Strategies in Healthcare Institutions
Pathology	
Theoretical	General Principles of Microbial Pathogenesis, Viral Diseases, Bacterial Diseases, Fungal and Parasite Diseases
General Surgery	
Theoretical	Anamnesis and General Terms in General Surgery, Asepsis, Antisepsis, Semiology of Surgical Infections, Simulated Patient Application, General Surgery
Nuclear Medicine	
Theoretical	Scintigraphic Imaging of Infection/Inflammation

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
NEUROSCIENCE AND PSYCHIATRY AND MUSCLE SKELETON SYSTEM DISEASES COMMITTEE-VI
(TIP 304) 7 WEEK PROGRAM
(28.03.2022 – 13.05.2022)

SUMMARY OF THE COMMITTEE

DISCIPLINE	THEORETICAL	PRACTICAL	TOTAL
1- EAR NOSE AND THROAT	2	-	2
2- GENETICS	3	-	3
3- INTERNAL MEDICINE	6	-	6
4- MEDICAL PHARMACOLOGY	20	-	20
5- NEUROLOGY	15	-	15
6- NEUROSURGERY	7	-	7
7- NUCLEAR MEDICINE	2	-	2
8- ORTHOPEDICS AND TRAUMATOLOGY	8	-	8
9- PATHOLOGY	14	4	18
10-PEDIATRICS	8	-	8
11- PHYSICAL MEDICINE AND REHABILITATION	4	-	4
12- PSYCHIATRY	21	-	21
13- RADIOLOGY	3	-	3
14- CLINICAL SKILL	-	2	2
MEDICAL LECTURES TOTAL HOURS	**113**	**6**	**119**

DEAN : Prof. Dr. İbrahim Bülent BUTTANRI

CHIEF COORDINATOR OF PHASE III : Prof. Dr. Dilek TOPRAK

VICE CHIEF COORDINATOR OF PHASE III : Assist. Prof. Dr. Duygu AYDIN HAKLI / Assist. Prof. Dr. Sercan KAPANCIK/ Lecturer Doğukan ÖZBAY

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE

DEPARTMENTS	*LECTURERS*
EAR NOSE AND THROAT	Prof. Dr. Ozan Seymen SEZEN
GENETICS	Assist. Prof. Dr. Hilal Eren Gözel
INTERNAL MEDICINE (Rheumatology)	Dr. Turgay ALTINDİLEK
MEDICAL PHARMACOLOGY	Prof. Dr. Semil Selcen GÖÇMEZ Assist. Prof. Dr. Fuat Nihat ÖZAYDIN
NEUROLOGY	Dr. Hakan ÇAVUŞ
NEUROSURGERY	Assist. Prof. Dr. Gülden Demirci OTLUOĞLU
NUCLEAR MEDICINE	Prof. Dr. Kerim SÖNMEZOĞLU
ORTHOPEDICS AND TRAUMATOLOGY	Prof. Dr. Hasan Hilmi MURATLI Dr. İftikhar Gurbanov
PATHOLOGY	Prof. Dr. Nimet KARADAYI Prof. Dr. Ahmet MİDİ
PEDIATRICS	Prof. Dr. Ayşe ÖNER Dr. Canan YILDIRIM
PHYSICAL MEDICINE AND REHABILITATION	Dr. Meryem Zare
RADIOLOGY	Assist. Prof. Dr. Demet DOĞAN
PSYCHIATRY	Prof. Dr. Mustafa SERCAN
CLINICAL SKILLS	Prof. Dr. Semih BASKAN Dr. İsmail ÖZSAN

TIP304 Neuroscience, Psychiatry and Musculoskeletal System Diseases Committee (10 Credits)

The purpose of this course is to gain the necessary skills and knowledge on the clinical anatomy of the nervous system, skeleton, articulations and bones. Disease mechanisms and histopathological considerations in these systems are discussed in details in pathophysiology and pathology courses. Diagnostic information on cerebrospinal fluid and the neurotransmitter systems in the central nervous system including the diagnosis of neurotransmitters are discussed. Genetic diagnosis of neurological diseases are given. Mental disorders and examination of the psychiatric patient summarized in general. Principles of examination and approach to the patients with musculoskeletal problems and their special treatment methods are summarized also. Special issues of internal medicine related with neurology, orthopedics, physical medicine and the psychiatry are discussed. Approach to the child patient and their special treatment differences are given. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Describe the composition and functions of the nervous system,
- Describe the composition and functions of the Musculoskeletal system,
- Define mental activities, behavioral aspects of human,
- Describe the pathology and histopathological findings of nerve and musculoskeletal system diseases,
- Describe examination methods in clinical neurology, psychiatry, orthopedics and physical medicine and rehabilitation. Know diagnosis methods, interpret biochemical and radiological examination results,
- Define diagnostic modalities in these pathological processes, application of techniques and interpretation of the results,
- Describe special therapeutic interventions in musculoskeletal diseases,
- Explain effects and side effects of pharmacological agents related with central nervous system, mood altering drugs, pain treatment and anesthetics,
- Gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center,
- Define pathophysiological mechanisms of the issues and histopathological findings in diseases.

TIP304 Neuroscience, Psychiatry and Musculoskeletal System Diseases Committee (10 Credits)
Course Content:

Ear, Nose and Throat	
Theoretical	Neurological Diseases of the Head and Neck
Genetics	
Theoretical	Genetic Counseling, Prenatal Diagnosis, Genetic Mechanisms in the Development of Neurodegenerative Disorder, Common Neuromuscular Disorders, Genetic Mechanisms in the Development of Neuromuscular Disorders
Internal Medicine	
Theoretical	Medical History and Physical Examination in Rheumatology, Acute Arthritis, Clinical Approach to Chronic Arthritis, Vasculitic Disorders, Connective Tissue Disorders, Bedside Diagnostic Examination of Patient with Rheumatic Disorder, Central Nervous System Infections Musculoskeletal Infections
Medical Pharmacology	
Theoretical	Introduction to Central Nervous System Pharmacology, Drugs used in the Treatment of Epilepsy, Alcohols, Drugs used in Parkinson's Disease, Drugs used in the Treatment of Depression and Mania, General Anesthetic Drugs, Drug and Substance Addiction, Central Nervous System Stimulant Drugs, Local Anesthetic Drugs, Neuroleptic Drugs, Drugs that Cause Drowsiness, Narcotic Painkillers, Non-Narcotic Painkillers, Drugs used in Gout, Drugs that Stop Nerve-Muscle Transmission, Centrally Acting Muscle Relaxants
Neurology	
Theoretical	Central Nervous System Semiology, 1st and 2nd Motor Neuron, Extrapyramidal System Diseases, Consciousness Disorders and Coma, Cranial Nerves, Epilepsy and EEG, Multiple Sclerosis and Optic Neuropathy, Peripheral Neuropathies, Cognitive Disorders and Delirium, Stroke, TIA and Carotid Stenosis, Medulla Spinalis Diseases, Approach to the Patient with Headache, Migraine and Other Headaches, Cerebellar and Spinocerebellar System Diseases, Muscle-Nerve Junction Diseases
Neurosurgery	
Theoretical	Introduction to Neurosurgery, Neuroanatomy and Neurophysiology,

	Neurological Examination, Intracranial Pressure(ICP) and Increased ICP and Hydrocephalus, Head Trauma–Evaluation and Management, Cerebrovascular Diseases: Intracerebral Hematomas and Subarachnoid Hemorrhage, Brain Tumors – Diagnosis and Treatment Method, Congenital Cranial Anomalies, Spinal Anomalies, Spinal Trauma and Medulla Spinalis Injuries, Spinal Deformities, Degenerative Spine Diseases, Tumors of Spine and Spinal Cord Tumors, Peripheral Nerve Injury and Trap Neuropathies, Cranial and Spinal Infections, Neuromodulation
Nuclear Medicine	
Theoretical	Nuclear Medicine in Neuropsychiatric Diseases
Orthopedics and Traumatology	
Theoretical	Introduction to Orthopedics and Traumatology, Patient Evaluation in Orthopedics and Traumatology, Musculoskeletal Development; Bone, Skeletal Muscle and Joint Biology, Fractures: General Knowledge and Classification, Radiologic Examination in Orthopedics, First Aid in Trauma, Approach to Open Fractures, Physical Examination of the Upper Limb; Hip and Spine; Knee; Foot and Ankle, Practical Session (History Taking & Symptomatology, Lab Request & X-Ray, Evaluation, Local Anesthesia & Tourniquet Application, Medical Dressing & Surgical Glove Training), Physical Examination in Children, Pediatric Fractures (Lower and Upper Extremity), Practical Session (Casting in Pediatric Patients), Fractures of the Spine, Fractures of the Pelvis & Traumatic Dislocation of the Hip, Practical Session (Physical Examination of the Spine, Pelvis & Hip), Fractures and Dislocations of the Shoulder and Elbow, Hand and Wrist Fractures, Practical Session (Physical Examination of the Elbow, Wrist and Shoulder), Developmental Dyspepsia of the Hip, Pes Equinovarus & Childhood Lower Extremity Problems, Perthes and Other Osteochondroses, Practical Session (Pelvic Harness Application – Casting in PEV), Fractures of the Proximal and Shaft of Femur, Around the Knee, Tibial Shaft and Foot & Ankle, Practical Session (Lower Extremity Casting), Complications of Fractures and Dislocations, Musculoskeletal Infections, Spinal Infections (Pott and Spondylodiscitis), Practical Session (Musculoskeletal Case Discussion), Osteoporosis and Osteomalacia, Metabolic Disorders, Degenerative Joint Diseases (primary and secondary), Neuromuscular Disorders -1-2, Practical Session (Neuromuscular Exam & Normal Gait), Entrapment Neuropathies,

	Tendinitis and Soft Tissue Injuries, Introduction to Bone and Soft Tissue Tumors & Evaluation, Benign Bone Tumors, Malignant and Metastatic Bone Tumors, Scoliosis, Adolescent Kyphosis, Spinal Stenosis and Infections, Sports Medicine (Shoulder and Knee), Practical Session (Video Presentation Knee and Shoulder), Biomaterials and Principles of Osteosynthesis, Hallux Valgus-Rigidus and Other Foot Disorders, Sports Medicine Foot and Ankle, Practical Session (Arthroscopic Ankle Anatomy Presentation)
Pathology	
Theoretical	Introduction to Central Nervous System Pathology and Congenital Developmental Disorders, Basic Lesions in the Central Nervous System, Pathology of Increased Intracranial Pressure, Head Traumas and Cerebrovascular Diseases, Demyelinating and Metabolic Diseases, Degenerative Diseases, Central Nervous System Infections, Central Nervous Systemtumors, Peripheral Nervous System Diseases, Pathology of Neurocutaneous Syndromes and Melanocytic Diseases, Pathology of Fracture Healing, Pathology of Joint Diseases, Congenital Diseases and Infections of the Skeletal System, Soft Tissue Tumors, Pathology of Bone Tumors
Practical	Pathology Laboratory: Central Nervous System Diseases Pathology, Peripheral Nervous System Diseases Pathology Pathology Laboratory: Musculoskeletal System Pathology
Pediatrics	
Theoretical	Acute Meningitis and Encephalitis in Children, Normal Developmental Stages in Children and Evaluation of Development, Mother-Infant Relationship and Attachment, Mental Disorders in Childhood, School Failure, In Case of Illness, the Child, Family and Physician
Physical Medicine and Rehabilitation	
Theoretical	Epidemiological Approach in Musculoskeletal Diseases, Differential Diagnosis in Musculoskeletal Diseases, Upper Extremity Functional Anatomy, Examination Methods and Upper Extremity Pain, Functional Anatomy of the Lower Extremity, Examination Methods and Lower Extremity Pain, General Approach and Rehabilitation Principles for Rheumatoid Arthritis and Seronegative Spondyloarthropathies, General Approach and Rehabilitation Principles of Osteoarthritis and Fibromyalgia, Physical Medicine and Rehabilitation Applications in Musculoskeletal System Diseases, Exercise Physiology and Therapeutic Exercises,

	Functional Anatomy of the Neck, Examination Methods and Neck Pain, Osteoporosis, Functional Anatomy of the Waist, Examination Methods and Low Back Pain, Rheumatoid Arthritis and Related Disorders, The Importance of Physical Therapy and Rehabilitation and Disability, 1. Motor and 2. Motor Neuron Diseases and Rehabilitation
Psychiatry	
Theoretical	Development of Psychiatry and Psychiatric Classifications, Neurobiology of Behavior and Neuronal Plasticity, Psychosocial Foundations of Behavior, Psychobiological Dimensions of Suicide, Organic Mental Disorders, Mood Disorders, Principles of Psychiatric Interview, Psychiatric Signs and Symptoms, Anxiety Disorders, Psychobiological Dimensions of Psychological Trauma, Psychoses, Personality Disorders, Addiction Syndromes, Sexual Disorders, Sleep Psychophysiology and Sleep Disorders, Somatoform Disorders, Principles and Methods in Psychotherapy, Development and Basic Principles of Somatic Therapies
Radiation Oncology	
Theoretical	Central Nervous System Neoplasms, Musculoskeletal System Cancers
Radiology	
Theoretical	Introduction to Nervous System Radiology, Introduction to Respiratory System Radiology, Introduction to Circulatory System Radiology, Introduction to Musculoskeletal Radiology

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
CARDIOVASCULAR AND RESPIRATORY SYSTEM DISEASES
COMMITTEE-III
(TIP 305) 5 WEEK PROGRAM
(29.11.2021 – 30.12.2021)

SUMMARY OF THE COMMITTEE

DISCIPLINE	THEORETICAL	PRACTICAL	TOTAL
1- FAMILY MEDICINE	2	-	2
2- ANESTHESIOLOGY AND REANIMATION	8	-	8
3- CARDIOLOGY	18	3	21
4- CARDIOVASCULAR SURGERY	4	-	4
5- CHEST DISEASES	10	-	10
6- THORACIC SURGERY	2	-	2
7- CLINICAL BIOCHEMISTRY	4	-	4
8- EAR NOSE AND THROAT	2	-	2
9- GENETICS	2	-	2
10-MEDICAL PHARMACOLOGY	23	-	23
11- NUCLEAR MEDICINE	2	-	2
12- PATHOLOGY	16	4	20
13- PEDIATRICS	9	-	9
MEDICAL LECTURES TOTAL HOURS	**100**	**7**	**107**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Dilek TOPRAK**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI /**
Assist. Prof. Dr. Sercan KAPANCIK

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
FAMILY MEDICINE	Prof. Dr. Dilek TOPRAK
ANESTHESIOLOGY AND REANIMATION	Assist. Prof. Dr. Gülen AÇIK
CARDIOLOGY	Prof. Dr. Nihat ÖZER Assoc. Prof. Dr. Süha ÇETİN Assist. Prof. Dr. Rengin Çetin GÜVENÇ Assist. Prof. Dr. Ceyhan TÜRKKAN
CARDIOVASCULAR SURGERY	Assoc. Prof. Dr. Erhan KAYA
CHEST DISEASES	Prof. Dr. Feyza ERKAN
THORACIC SURGERY	Prof. Dr. Bülent KARGI
CLINICAL BIOCHEMISTRY	Prof. Dr. Gülden BURÇAK
EAR NOSE AND THROAT	Prof. Dr. Ozan Seymen SEZEN
GENETICS	Assist. Prof. Dr. Öznur B. EKMEKÇİGİL
MEDICAL PHARMACOLOGY	Prof. Dr. Semil Selcen GÖÇMEZ
NUCLEAR MEDICINE	Prof. Dr. Kerim SÖNMEZOĞLU
PATHOLOGY	Prof. Dr. Nimet KARADAYI Prof. Dr. Ahmet MİDİ
PEDIATRICS	Prof. Dr. Ahmet AKÇAY Prof. Dr. Taner YAVUZ Prof. Dr. Emin ÜNÜVAR

TIP305 Cardiovascular and Respiratory System Diseases Committee (9 Credits)

The purpose of this course is to explain the genetic mechanisms and etiology of the cardiovascular system diseases of the children and adults, besides their clinical and pathological features. Questioning of the patient and examination methods are shown to the students. Students also learn how to use medical and surgical treatments and diagnostic tools. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center.
Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.

At the end of this course the student will be able to:

- Explain main cardiac and lung diseases, and their physiopathological mechanism,
- Learn anamnesis, and examination methods of Cardiovascular and respiratory system related illnesses and can examine this patient,
- Define examination methods in cardiovascular and respiratory system diseases diseases,
- Describe diagnostic methods in cardiovascular and respiratory system diseases,
- Define examination methods and different specifications other than adult population of children in cardiovascular and respiratory diseases,
- Explain the medical and surgical treatment of cardiovascular and respiratory system diseases,
- Explain the effects, side effects, mechanism of actions, dosages and drug interactions of drugs used in cardiovascular and respiratory system diseases,
- Understand and explain the main principles of radiodiagnostics, nuclear medicine and radiation oncology,
- Gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center.

TIP305 Cardiovascular and Respiratory System Diseases Committee (9 Credits) Course Content:

Anesthesiology and Reanimation	
Theoretical	CPR Applications, Patients In Intensive Care Unit, Introduction to Anesthesiology, Pain, Type of Anesthesia, Monitoring in Anesthesia, Preoperative Preparation and Premedication, Airway Management; Simulated Patient Application; Anesthesiology and Reanimation
Cardiology	
Theoretical	History of Heart Diseases, Physical Examination in Heart Diseases, Heart Sounds and Murmurs in Adults, Normal ECG Findings, Diagnostic Methods in Cardiology, Abnormal ECG Findings, Pathophysiology of Arrhythmias, Systemic Hypertension, Pathophysiology of Coronary Heart Diseases, Heart Failure Pathophysiology and Clinical Findings, Myocarditis and Cardiomyopathies, Valve Diseases and Infective Endocarditis, Shock Pathophysiology and Cardiogenic Shock, Pericardial Diseases
Cardiovascular Surgery	
Theoretical	Emergency Interventions in Open Heart Surgery, Arterial Surgery, and Venous Sur
Chest Diseases	
Theoretical	Respiratory System Anatomy, Physiology and Physical Examination, Approach to Symptoms of the Respiratory System, Diagnostic Methods in Respiratory Diseases, Chronic Obstructive Pulmonary Diseases, Bronchial Asthma, Pulmonary Tuberculosis, Case Reports, Lower Respiratory Tract Infections, Pleural Fluid, Oxygen and other Treatment Gases
Thoracic Surgery	
Theoretical	Mediastinal Anatomy and Diseases, Invasive Diagnostic Methods in Thoracic Surgery, Pneumothorax, Foreign Body Aspirations, Hemoptysis, Solitary Pulmonary Nodule
Clinical Biochemistry	
Theoretical	Disorders of Lipoprotein Metabolism, Biochemistry of Endothelial Cells: Atherosclerosis, The Assessment of Cardiac Function
Ear, Nose and Throat	
Theoretical	Chemical Senses Olfaction and Taste, Acute Airway Obstruction: Causes and Treatment in Ear Nose and Throat, Larynx Physiology and Disorders
Genetics	

	Theoretical	The Molecular Basis of Cardiovascular Development, Specific Cardiovascular Genetic Disorders
	Medical Pharmacology	
	Theoretical	Introduction to Autonomic Nervous System Pharmacology, Parasympathomimetic Drugs and Anticholinesterases, Mushroom Poisonings, Parasympatholytic Drugs, Sympatholytic and Ganglion Blocking Drugs, Drugs used in Arrhythmia, Treatment of Angina Pectoris and Incongestive Heart Failure, Blood Pressure Lowering Drugs and Their Basic Mechanisms of Action, Antiplatelet Drugs, Peripheral Vasodilator Drugs, Hyperlipidemic Drugs, Other Drugs that Relax the Bronchi and are used in the Treatment of Asthma, Cough Suppressants, Expectorants and Mucus Removers
	Nuclear Medicine	
	Theoretical	Nuclear Cardiology, Scintigrafic Imaging in the Chest Diseases
	Pathology	
	Theoretical	Inflammatory Lesions and Tumors of the Oral Cavity, Pathology of Upper Respiratory Tract Diseases, Blood vessels, Atherosclerosis and Hypertensive Changes, Congenital Diseases and Infections of the Lungs, Pathophysiology of Ischemic Heart Disease, Valvular, Endomyocardial Diseases, Cardiomyopathies, Pleural Diseases, Pathology of Venous Diseases and Vascular Tumors, Cardiac tumors and Pericardial Diseases
	Practical	Pathology Laboratory: Oral Cavity Inflammatory Lesions and Tumors, Pathology of Upper and Lower Respiratory Tract Diseases, Atherosclerosis, Changes in Blood Vessels due to Hypertension, Ischemic Heart Disease Pathology vascular Tumors, Cardiac Tumors
	Pediatrics	
	Theoretical	Circulatory System Examination in Children, Heart Sounds and Murmurs, Hemodynamic Changes in Congenital Heart Diseases, Upper Respiratory Tract Infection in Children, Reactive Airway Disease and Bronchial Asthma in Children, Acyanotic and Cyanotic Congenital Heart Diseases, Acute Rheumatic Fever
	Radiation Oncology	
	Theoretical	Lung Carcinoma

OKAN UNIVERSITY FACULTY OF MEDICINE
2021 – 2022 ACADEMIC YEAR
PHASE III
PUBLIC HEALTH COMMITTEE-VII
(TIP 306) 4 WEEK PROGRAM
(16.05.2022 – 10.06.2022)

SUMMARY OF THE COMMITTEE			
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**TOTAL**
1- PUBLIC HEALTH	40	-	40
2- MEDICAL PHARMACOLOGY	2	-	2
3- FORENSIC MEDICINE	4	-	4
4- PSYCHIATRY	4	-	4
5- BIOSTATISTICS	4	-	4
MEDICAL LECTURES TOTAL HOURS	**54**	**-**	**54**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Dilek TOPRAK**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI /**
Assist. Prof. Dr. Sercan KAPANCIK/
Lecturer Doğukan ÖZBEY

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
PUBLIC HEALTH	**Prof. Dr. Mithat KIYAK** **Prof. Dr. Nilay ETİLER** **Assoc. Prof. Dr. Aslı DAVAS**
MEDICAL PHARMACOLOGY	**Assist. Prof. Fuat Nihat ÖZAYDIN**
FORENSIC MEDICINE	**Dr. Fatih Hitami USLUOĞULLARI**
PSYCHIATRY	**Prof. Dr. Mustafa SERCAN**
BIOSTATISTICS	**Assist. Prof. Duygu AYDIN HAKLI**

TIP306 Public Health, Forensic Medicine and Medical Ethics Subject Committee (8 Credits)

Informations about the introductory forensic issues are given. General principles of public health, epidemiology and medical ethics are discussed. Information on general knowledge about disease prevention, immunization programs, sanitary preventions, clear water and purification systems, principles of quarantine and controlling of epidemics, general principles of community health, and biostatistical issues are learned. General pharmacology and environmental toxicology issues are discussed. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Have knowledge about the forensic medicine, the location of the subject in the World and Turkey, forensic autopsy, the definition of death,
- Describe the primary health care, preventive medicine and also the principles of health education, applications in health care and health insurance and also critically analyze current medical issues and future advances,
- Evaluate critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values,
- Explain general knowledge about disease prevention, immunization programs, sanitary preventions, clear water and purification systems, principles of quarantine and controlling of epidemics, general principles of community health, and biostatistical issues are learned,
- Explain the treatment principles in dermatological diseases and explain the mechanisms, effects, side effects, dosages and drug interactions of drugs used in dermatological diseases,
- Discuss information on general pharmacology, toxicology and environmental toxicology issues,
- Explain features of blood banking and transfusions, blood transfusion products and storage, transfusion reactions and their treatments,
- Within the scope of hygiene and environmental health, the student oversees water safety and purification, food hygiene, and the implementation of community immunization.

TIP306 Public Health, Forensic Medicine and Medical Ethics Subject Committee (8 Credits) Course Content:

Biostatistics	
Theoretical	Clinical Tests-Sensitivity and Specificity and Predictive Value, Evaluation of Diagnostic and Screening Tests, Validity and Reliability
Infectious Diseases	
Theoretical	Lymphoreticular System Infections, Transfusion Transmitted Diseases, Vaccination in Adults and Immunosuppressive Patients
Public Health	
Theoretical	Methods, Group Work and Group Presentations in Public Health, Public Health - Social Medical Sciences, Turkey's Administrative Structure, Team Service in Health, Community Participation, History of Health Services and Basic Health Services, history of Health Services in Turkey, Health Systems: General Approach, Country Examples, What is Health Planning? Why is it Necessary, History of Planning in Turkey, Health Law, Goals of Health Reform, Management of Health Services, Inpatient Treatment Institutions, Services Carried Out in the Health Center, Situation Determination and Getting to Know the Region, Status of Women's Health in Turkey, Family Planning Concept and Services, Prenatal Care Services, Why is Demographics Necessary, Today, Social Policy, Social Health Indicators, Status and Control of Infectious Diseases, Scientific Method and Responsibilities of Scientists, What is Epidemiology, Causal Relationship in Medicine, Concepts in Environmental Health, Environment-Development Relationship and Political Economy, Climate Change and Health, Research Techniques: Descriptive Epidemiology, Cross-Sectional Studies, Epidemic Investigation, Vaccination Services, Case-Control Studies, Cohort Studies, Outdoor Air Pollution, Health Services Management in Extraordinary Situations, Rapid Health Assessment in Extraordinary Situations, Political Economy of Water, Water Hygiene, Ionizing Radiation and Health, Experimental Research, Methodical Research, Research Planning, Health Economics: Definitions and Concepts, Disposal of Liquid and Solid Waste, Electromagnetic Radiation and Health, Health Education, Medical Education in the World and in Turkey, Social Diseases: Tuberculosis, AIDS Epidemiology, Social Diseases: Malaria Epidemiology, Occupational Health and Safety: Concepts and History, Indoor Air Pollution, Transportation and Health, Industrial Revolution and Modes of Production, Occupational Physiology and Special Working Styles, Occupational Hygiene, Ergonomics, School Health, Health of Healthcare Workers, Food Hygiene, Occupational Health and Safety Legislation, Occupational Medicine, Special Groups in Working Life (Child Workers, Women, Disabled people),

	Vector Struggle, Nutrition-Health Relationship, Adequate and Balanced Nutrition, Nutritional Problems in Turkey and the World, Food and Agriculture Policies and Nutrition in the World, Work Accidents and Occupational Diseases, Occupational Health and Safety in Turkey: Institutions and organization, War and Health, Migrations and Health, In Terms of Public Health, Old Age, Epidemiology of Chronic Diseases, Situation of Child Health in Turkey, Acute Diarrhea in Children, Breast Milk and Infant Feeding, Rash Diseases in Children, Mumps and Whooping Cough, Immunization (Vaccination) in Children, Adolescent Nutrition and Health
Medical Pharmacology	
Theoretical	Antihistamines, Drugs for Dermatologic Disorders
Psychiatry	
Theoretical	Approach to Preventive Mental Health, Mental Health Problems of Children and Adolescent, Mental Healthcare Needs in Disasters, Organization of Mental Health Services at National and Local Level, Social Aspect of Chronic Mental Diseases, Social Aspect of Addiction, Rehabilitation Programs
Forensic Medicine	
Theoretical	Forensic Medicine Services at Primary Level in Living Cases, Primary Forensic Services in Death Cases
Clinical Microbiology	
Theoretical	History and Principles of Blood Banking and Transfusion, Infectious Diseases Testing, Blood Products and Labelling, Blood Donation, Component Preparation and Storage of Blood Products, Transfusion and Transfusion Reactions

OKAN UNIVERSITY FACULTY OF MEDICINE

2021 – 2022 ACADEMIC YEAR

PHASE III

GASTROINTESTINAL SYSTEM DISEASES COMMITTEE-IV

(TIP 307) 5 WEEK PROGRAM

(03.01.2022 – 11.02.2022)

SUMMARY OF THE COMMITTEE				
DISCIPLINE	**THEORETICAL**	**PRACTICAL**	**SIMULATION**	**TOTAL**
1- EMERGENCY MEDICINE	2	-	-	2
2- FAMILY MEDICINE	2	-	-	2
3- BIOCHEMISTRY	4	-	-	4
4- MEDICAL PHARMACOLOGY	6	-	-	6
5- INTERNAL MEDICINE (Gastroenterology)	16	-	4	20
6- GENERAL SURGERY	9	-	2	11
7- PUBLIC HEALTH	2	-	-	2
8- NUCLEAR MEDICINE	2	-	-	2
9- PATHOLOGY	12	2	-	14
10- PEDIATRICS	6	-	-	6
11- RADIOLOGY	3	-	-	3
MEDICAL LECTURES TOTAL HOURS	**64**	**2**	**6**	**72**

DEAN : **Prof. Dr. İbrahim Bülent BUTTANRI**

CHIEF COORDINATOR OF PHASE III : **Prof. Dr. Dilek TOPRAK**

VICE CHIEF COORDINATOR OF PHASE III : **Assist. Prof. Dr. Duygu AYDIN HAKLI /**
Assist. Prof. Dr. Sercan KAPANCIK/
Lecturer Doğukan ÖZBEY

LIST OF PARTICIPANTS IN THE SUBJECT COMMITTEE	
DEPARTMENTS	***LECTURERS***
EMERGENCY MEDICINE	**Assist. Prof. Dr. Ali Kaan ATAMAN**
FAMILY MEDICINE	**Prof. Dr. Dilek TOPRAK**
BIOCHEMISTRY	**Prof. Dr. Gülden BURÇAK**
MEDICAL PHARMACOLOGY	**Assist. Prof. Dr. Fuat Nihat ÖZAYDIN**
INTERNAL MEDICINE (Gastroenterology)	**Prof. Dr. Hakkı Celal ULAŞOĞLU**
GENERAL SURGERY	**Assist. Prof. Dr. Ferhat FERHATOĞLU** **Assist. Prof. Dr. Taner KIVILCIM** **Assist. Prof. Dr. Kaan GÖKÇE**
PUBLIC HEALTH	**Assoc. Prof. Dr. Aslı DAVAS**
NUCLEAR MEDICINE	**Prof. Dr. Kerim SÖNMEZOĞLU**
PATHOLOGY	**Prof. Dr. Nimet KARADAYI** **Prof. Dr. Ahmet MİDİ**
PEDIATRICS	**Prof. Dr. Emin ÜNÜVAR** **Assist. Prof. Dr. Serkan ATICI**
RADIOLOGY	**Assist. Prof. Dr. Kaan ALİŞAR** **Assist. Prof. Dr. Demet DOĞAN**

TIP307 Gastrointestinal System Diseases Committee (8 Credits)

The purpose of this course is to recognize gastrointestinal system diseases, learn pathogenesis, biochemical pattern and treatment. Students learn to take the story and the examination methods and develop their clinical skills on simulated patients. Diagnostic techniques related with gastrointestinal system diseases and the application of these methods are discussed. Organ transplantation issues, approach to the acute abdomen, malign and vascular diseases of the gastrointestinal disease; life threatening conditions like hepatic coma are discussed. They gain clinical skills before entering the clinic rotations by performing examinations and procedures with simulated patient in the simulation center. *Prerequisites: TIP201, TIP202, TIP203, TIP204 and TIP206.*

At the end of this course the student will be able to:

- Know and explain pathogenesis, biochemical pattern and treatment of gastrointestinal system diseases,
- Learn to take the story and the examination methods of gastrointestinal system diseases,
- Discuss diagnostic techniques related with gastrointestinal system diseases and the application of these methods,
- Explain to the acute abdomen, malign and vascular diseases of the gastrointestinal disease; life threatening conditions like hepatic coma. Describe medical and surgical treatments in these situation,
- Explain the effects, side effects, dosages and drug interactions of drugs used in gastrointestinal system diseases,
- Develop their clinical skills on simulated patients.

TIP307 Gastrointestinal System Diseases Committee (8 Credits) Course Content:	
Clinical Biochemistry	
Theoretical	The Assessment of Hepatic, Pancreatic and Gastroinestinal Function
Gastroenterology	
Theoretical	Motor Diseases of the Esophagus and Difficulty Swallowing, Gastritis, Stomach-Duodenum Diseases, Malabsorption Syndromes, Inflammatory Bowel Diseases, Gastrointestinal System Parasitic Diseases and Diverticulosis, Acute Hepatitis, Alcohol and Liver, Non-Alcoholic Fatty Liver Diseases, Drugs and Liver, Chronic Hepatitis, Cirrhosis, Other Cholestatic Diseases
Practical	Simulated Patient Application
General Surgery	
Theoretical	The Approach to Trauma, Emergency Principles, Semiology of Burn and Shock Acute Abdomen Liver Diseases, Extrahepatic Biliary Tract Diseases, Small Intestine, Colon, Rectum and Perianal Area Diseases, Abdominal Wall Examination and Semiology of Pain, Semiology of Esophagus, Stomach and Duodenal Diseases, Semiology of Nutrition and Metabolism, Fluid and Electrolyte, Semiology of Arterial and Senous Diseases, Bleeding and Hemostasis
Practical	Simulated Patient Application
Medical Pharmacology	
Theoretical	Medicines used in the Treatment of Peptic Ulcers and Digestive Aids, Stool Softeners and Diarrhea- Inducing Drugs, Antidiarrheal Drugs, Drugs used against Worms and Other External Parasites, Antiamoebic and Other Antiprotozoal Drugs, Medicines used to Treat Malaria, Medicines that Cause Nausea and Vomiting and Prevent Nausea and Vomiting
Nuclear Medicine	
Theoretical	Scintigraphic Applications in Gastrointestinal System, Scintigraphic Imaging in Hepatobiliary System
Pathology	
Theoretical	Inflammatory Diseases and Tumors of the Esophagus, Gastritis and Peptic Ulcer, Stomach Tumors, Malabsorption Syndrome, Chronic Inflammatory Bowel Diseases, Inflammation and Tumors of the Appendix and Peritoneum, Small Intestine and Colon Tumors, Pathology of Viral and Autoimmune Hepatitis and Cirrhosis, Familial Toxic Alcoholic and Metabolic Diseases of the Liver and Non-Alcoholic Steatohepatitis, Jaundice, Cholestatic Liver Diseases, Liver Tumors, Gallbladder and Pancreatic Diseases,
Practical	Gastrointestinal System Inflammatory Diseases and Tumors, Hepatobiliary System Inflammatory Diseases and Tumors, Hematopathology, Lymphoproliferative and Myeloproliferative Diseases
Pediatrics	

Theoretical	Peptic Diseases and Gastroesophageal Reflux in Childhood, Malabsorption, Malnutrition, Bilirubin Metabolism and Neonatal Jaundice,
Pediatric Surgery	
Theoretical	Abdominal Pain and Examination, Undescended Testicle
Radiation Oncology	
Theoretical	Gastrointestinal Track Cancers
Radiology	
Theoretical	Introduction to Gastrointestinal System Radiology, Hepatobiliary System Radiology, The Role of Interventional Radiology in GIS Diseases

Curriculum Phase IV

COURSE PLAN

Code	Course Title	*C	**A	ECTS
TIP401	Forensic Medicine	Yes	Yes	**4**
TIP406	Radiology and Nuclear Medicine	Yes	Yes	**3**
TIP407	Anesthesiology and Reanimation	Yes	Yes	**3**
TIP408	Rational Use of Drugs	Yes	Yes	**3**
TIP421	General Surgery	Yes	Yes	**10**
TIP422	Pediatric Health and Diseases	Yes	Yes	**10**
TIP423	Gynecology and Obstetrics	Yes	Yes	**10**
TIP424	Family Medicine	Yes	Yes	**3**
TIP425	Emergency Medicine	Yes	Yes	**3**
TIP426	Internal Medicine	Yes	Yes	**11**
Total:				**60**

*C: Compulsory
**A: Average

OKAN UNIVERSITY FACULTY OF MEDICINE 4TH GRADE INTERNSHIP PROGRAM

INTERNSHIP	DURATION/WEEKS	GR1	GR2
INTERNAL MEDICINE	6	26.09/6.11	7.11/18.12
PEDIATRIC HEALTH AND DISEASES	6	7.11/18.12	26.09/6.11
GENERAL SURGERY	6	19.12/29.01	13.02/26.03
GYNECOLOGY AND OBSTETRIC	6	13.02/26.03	19.12/29.01
RADIOLOGY AND NUCLEAR MEDICINE	2	27.03/09.04	10.04/23.04
ANESTHESIOLOGY AND REANIMATION	2	10.04/23.04	27.03/09.04
EMERGENCY MEDICINE	2	24.04/07.05	08.05/14.05
FORENSIC MEDICINE	1	08.05/14.05	24.04/07.05
RATIONAL USE OF DRUGS	2	15.05/28.05	29.05/09.06
FAMILY MEDICINE	2	29.05/09.06	15.05/28.05
29.01.-11.02.2023 SEMESTER HOLIDAY			
19.06-23.06.2023 MAKE-UP EXAMS			

TIP401 Forensic Medicine (4 credits)

The purpose of this course is to gain information on the forensic medicine and the criminal issues. This program includes introduction to thanatology, methods of autopsy, basic forensic toxicology, basic forensic pathology, basic criminal diagnostics, methods of forensic examination and medical examiner reporting and basic knowledge on Turkish law and legislation's related with the forensic issues. In accordance with the Turkish Criminal Code and the legislation's related with the practice of medicine in Türkiye, student has to recognize the legal limitations of the medical practice in the face of medical malpractice. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the student will be able to:

- Know better the terminology of forensic medicine in medical practice,
- Recognize the types of clinical forensic case,
- Perform forensic examination,
- Can edit a forensic report,
- Can autopsy,
- Organize forensic autopsy,
- Know the health legislation,
- Discuss the concepts of health law.

Course Content:

Forensic Medicine
Introduction and Scope of Forensic Medicine, Legal Situations Regarding the Concept of Death and Organ Transplantation, Burial License in Judicial Deaths, Postmortem Changes, Wounds, Examining the Dead and Writing a Forensic Report Regarding the Death, Sexual Crimes, Domestic Violence and Child Abuse, Sexual Assault and Legal Report Writing, Violence Against Women, Sudden Unexpected Deaths, Child-Maternal Deaths, Postmortem Interval and Sampling, Deaths as a Result of Anoxia-Hypoxia, Hanging, Hand Strangulation and Tie Strangulation, Oral-Nasal Congestion, Drowning, Carbon Monoxide Poisoning, Unusual Conditions and Forensic Medicine, Human Rights Violations and Reporting, Istanbul Protocol, Minnesota Autopsy Protocol, Gunshot Wounds, Forensic Traumatology and Forensic Report Preparation, Forensic Biology, Forensic Toxicology, Narcotic Substances, Legal Responsibilities of the Physician, Deaths and Electric Shock in a Fire Environment, Identification, Forensic Psychiatry, Addiction, Malpractice Criminal Liability, Malpractice-Complication Distinction

TIP426 Internal Medicine (11 credits)

The purpose of this course is to gain information on the internal medicine and related skills of internal medicine clinics. This rotation theoretical battery is in line with the previously given clinical course information; to synthesize, update and consolidate the internal medicine information obtained from different branches, teach and practice history taking and basic physical exam rules in the clinic, ensure that the students can formulate an appropriate differential diagnosis and effective treatment plans, teach how to reach necessary resources to combine the symptoms and clinical findings. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the student will be able to:

- To develop the physical examination and clinical skills required of a medical student in general internal medicine practice, including the ability interpret information relative to normal and abnormal structure, function and physiology,
- To apply historical and clinical information for problems solving to advance the health of the patient,
- To develop the psycho-social and communication skills and competencies that are required to communicate with, and treat a wide diversity of patients in acute, outpatient and institutional settings,
- To develop the ability to research medical literature and scientific resources for information that affects the patient's condition, treatment and outcomes and the ability to evaluate and apply scientifically valid information to maximize the outcome of the patient,
- Performing a physical examination for a patient in a logical, organized, respectful, and thorough manner, giving attention to the patient's general appearance, vital signs, and pertinent body regions.

Course Content:

Internal Medicine
Taking Anamnesis, Extremity Examination, Head and Neck Examination, Thorax Examination, Abdominal Examination, Peptic Ulcer Disease and its Treatment, Urinary System Infections, Fluid-Electrolyte Disorders Rheumatoid Arthritis, Current Treatments in Inflammatory Bowel Diseases, Urology Cancers, Gastrointestinal System Cancers, Current Treatments in Chronic Viral Hepatitis, Diagnosis and Treatment of Urinary Tuberculosis, Diabetes Mellitus, Clinic and Treatment, Systemic Lupus Erythematosus, Liver Function Tests, Portal Hypertension, Acid and its Complications, Treatment of Acute Complications of Diabetes, Hemolytic Uremic Syndrome, Idiopathic Thrombocytopenic Purpura, Diabetes and Pregnancy, Obesity, Gallbladder and Biliary Tract Diseases, Approach to the Patient with Jaundice, Osteoporosis: Clinic and Treatment, Thyroid Nodules, Familial Mediterranean Fever, Vasculitis, Sjögren's Syndrome, Gastrointestinal System Bleeding, Approach to Patients with Hematuria, Hereditary Nephropathies, Kidney and Hypertension, Clinical Approach to the Nephrological Patient, Oncological Emergencies, Leukemias, Acute Renal Failure due to Malignancy and Malignancy Treatment, Cystic Disease of the Kidney, Gastroesophageal Reflux Disease, Progressive Systemic Sclerosis, Acute Nephritic Syndromes, Chronic Renal Failure, Acute and Chronic Pancreatitis, Pancreatic Tumors Pregnancy and Gastroenterohepatological Diseases, Wilson's Disease and Hemochromatosis, Hemoglobinopathies and Thalassemias

OKAN UNIVERSITY FACULTY OF MEDICINE 4TH YEAR INTERNSHIP PROGRAMS

IV. GRADE INTERNAL MEDICINE PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introducing and Orientation	Basic ECG	Acute Coronary Syndrome	Hypertension	AC Edema
10.30-12.00	Approach to Chest Pain	Arrhythmia's	Syncope	Heart Failure	Infective Endocarditis
12.20-13.00	**Lunch Break**				
13.00-15.00	Basic Diagnostic Methods in Cardiology	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE INTERNAL MEDICINE PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Multiple Myeloma	Anemia's	Plasma Cell Disorders	Lymphomas	Indications and Complications of Transfusion
10.30-12.00	Hematologic Emergencies	Thrombocytopenia and Platelet Disorders	Bone Marrow Failure	Myeloproliferative Diseases	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Independent Study

IV. GRADE INTERNAL MEDICINE PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Diabetes Mellitus: Diagnosis and Classification Complications-Type 2 DM Treatment	Obesity, Metabolic Syndrome	Neurohypophysis Diseases	Gastrointestinal Symptoms Gastrointestinal Diagnostic Methods-Upper Gastrointestinal Diseases	Malabsorption and Celiac Disease-Inflammatory Bowel Diseases
10.30-12.00	Thyroid Diseases: Hypothyroidism, Thyrotoxicosis, Hyperthyroidism	Hirsutism, Polycystic Ovary Syndrome	Adrenal Gland Hypofunction: Addison's Disease	Gastrointestinal Bleeding Functional Gastrointestinal Diseases	Acute Liver Failure
12.20-13.00	**Lunch Break**				
13.00-15.00	Parathyroid Diseases Hypoparathyroidism, Hyperparathyroidism	Diseases with Pituitary Hyperfunction	Osteoporosis and Osteomalacia Gastroenterology	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Independent Study	Clinical Practice	Clinical Practice

IV. GRADE INTERNAL MEDICINE PROGRAM-4TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Vasculitis-1-2	Behcet's Disease	SLE	Seronegative Spondyloarthropathies	Clinical Practice
10.30-12.00	FMF-Acute Rheumatic Fever	Polymyocyte, Dermatomyocyte	Systemic Sclerosis and Sjorgen Syndrome	Rheumatoid Arthritis	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Clinical Practice

IV. GRADE INTERNAL MEDICINE PROGRAM-5TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Cancer Epidemiology and Prevention	Chemotherapy Side Effects	Oncologic Emergencies	Lung Cancer	Breast Cancer
10.30-12.00	Principles of Treatment in Cancer	Palliative Treatments in Cancer	Polyclinic Practice	Lung Cancer	Polyclinic Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Diagnosis-Treatment Practices	Independent Study	Diagnosis-Treatment Practices	Independent Study	Diagnosis-Treatment Practices
15.00-16.00	Clinical Practice	Independent Study		Independent Study	

IV. GRADE INTERNAL MEDICINE PROGRAM-6TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Acid-Base Balance and Disorders	Glomerular Diseases	Tubulointerstitial Diseases	Diabetic Nephropathy	EXAM
10.30-12.00	Nephrotic and Nephritic Syndrome	Acute and Chronic Renal Failure	Fluid-Electrolyte Balance and Disorders	FMF-Amyloidosis	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

TIP421 General Surgery (11 credits)

The purpose of this course is to gain information on the general surgical disease and related issues. It Provides general information about general surgery, explains the pathophysiological basis of diseases, their diagnosis and surgical treatments, teaches the treatment principles for the pre-operative, post-operative and injured individuals. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Demonstrate the ability to obtain an accurate surgical history,
- Demonstrate knowledge and understanding of common surgical problems,
- Understand the indications for, and the limitations of, essential diagnostic studies used to evaluate patients with surgical problems,
- Evaluate and assess patients with surgical diseases,
- Understand and possibly perform various basic procedures, such as: venipuncture, placement of intravenous catheter, insertion of urethral (Foley) catheter, insertion of nasogastric tube, removal of surgical drains, closure of surgical incisions, removal of suture/staples, dressing changes,
- Understand how to and possibly apply specific protocol in the operating room (scrubbing, gowning, gloving, prepping and draping).

Course Content:

General Surgery
History of Surgery, Anamnesis in Surgical Patients, Preoperative Preparation, Postoperative Complications and Management, Hemostasis, Surgical Bleeding, Transfusion, Shock, Metabolic, Endocrine Response to Trauma, Fluid-Electrolyte Therapy, Acid Base Balance, Wound Healing and Wound Care, Surgical Infections, Sepsis, Surgical Nutrition, Burns, Frostbites, Benign Diseases of the Esophagus, Malignant Tumors of the Esophagus, Benign and Malignant Tumors of the Stomach, Physiopathology and Surgery of Peptic Ulcer, Post Gastrectomy Syndromes, Upper and Lower Gastrointestinal Tract Bleeding, Abdominal Examination, Small Bowel Diseases, Peritonitis and Intra-Abdominal Abscesses, Endoscopic Procedures, Colon Polyps, Malignant Tumors of the Colon, Inflammatory Bowel Diseases, Mesenteric Artery Diseases, Surgical Spleen Diseases, Anorectal Region Diseases, Acute Appendicitis, Acute Abdomen, Acute and Chronic Pancreatitis, Intestinal Obstructions, Abdominal Traumas, Liver Abscesses, Hydatid Cysts, Liver Tumors, Adrenal Diseases, Extrahepatic Biliary Tract Diseases, Gallbladder Diseases, Portal Hypertension, Pancreatic Periampullary Region Tumors, Pancreatic Endocrine Tumors, Transplantation, Hernias and Hernia Examination, Breast examination and Diagnostic Methods, Benign Breast Diseases, Breast Cancers, Treatment of Breast Cancers, Soft Tissue Tumors, Benign Thyroid Diseases, Thyroid Cancers, Parathyroid Diseases, Sterilization, Decontamination and Antisepsis

IV. GRADE GENERAL SURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Management of Upper Gastrointestinal Bleeding	Homeostasis, Surgical Bleeding and Transfusion	Wound Healing	Benign Liver Diseases
10.30-12.00	Gallbladder Diseases	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE GENERAL SURGERY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Burns	Perianal Region Diseases	Fluid and Electrolyte Management of the Surgical Patient	Pancreatitis	Malignant Tumors of the Stomach and Esophagus
10.30-12.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE GENERAL SURGERY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Management of Lower Gastrointestinal Bleeding	Bile Duct Diseases	Benign Thyroid Diseases	Malignant Diseases of the Colon and Rectum	Benign Esophageal Diseases
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Independent Study	Clinical Practice	Independent Study
15.00-16.00	Independent Study	Clinical Practice	Independent Study	Clinical Practice	Independent Study

IV. GRADE GENERAL SURGERY PROGRAM-4TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Biopsy Techniques in General Surgery	Malignant Thyroid Diseases	Benign Diseases of the Stomach and Duodenum	Malignant Pancreatic Tumors	Parathyroid Diseases
10.30-12.00	Diaphragmatic Hernia	Clinical Practice	Clinical Practice	Malignant Liver Diseases	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Independent Study
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice

IV. GRADE GENERAL SURGERY PROGRAM-5TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Management of Obstructive Jaundice	The Abdominal Wall, Omentum, Mesentery and Retroperitoneal Diseases	Intestinal Obstructions	Diseases of the Small Intestine	Management of Abdominal Trauma
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Independent Study

IV. GRADE GENERAL SURGERY PROGRAM-6TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Adrenal Gland Diseases	Benign and Malignant Breast Diseases	Antibiotic use in General Surgery	Abdominal Wall Hernia	EXAM
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Diabetic Foot	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	END OF INTERNSHIP FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

TIP422 Pediatric Health and Diseases (11 credits)

The purpose of this course is to gain information on the pediatrics and related issues. It provides basic knowledge and skills of pediatrics. The purpose of the pediatric clerkship is to provide the medical student with the knowledge and clinical experience necessary to develop basic skills in the evaluation and management of health and disease in infants, children and adolescents. The core pediatric clerkship is an introduction to the care of healthy children and emphasizes those aspects of pediatrics which should be understood and mastered by all physicians, regardless of ultimate career goals. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Demonstrate the ability to generate an age-appropriate differential diagnosis based on the interview and physical examination,
- Describe the components of a pediatric health supervision visit including health promotion and disease and injury prevention, the use of screening tools, and immunizations for newborns, infants, toddlers, school aged children, and adolescents,
- List the differential diagnosis for common symptoms or patient presentations such as abdominal pain, abnormal growth pattern, ALTE, respiratory distress, jaundice, vomiting, diarrhea, wheezing, and seizures,
- Describe the clinical features of common acute and chronic medical conditions such as asthma, anemia, atopic dermatitis, AD/HD, bronchiolitis, Kawasaki disease, cellulitis, cerebral palsy, child abuse, croup, dehydration, diabetes, strep pharyngitis, meningitis, epilepsy, urinary tract infection, osteomyelitis, gastroenteritis, gastroesophageal reflux, otitis media, viral URI,
- Demonstrate an ability to perform an age-appropriate history and physical examination in children of all ages,
- Interpret the results of common diagnostic tests with an emphasis on age related norms,
- Understand and possibly perform various basic procedures, such as: venipuncture, placement of intravenous catheter insertion of urethral (Foley) catheter insertion of nasogastric tube removal of surgical drains, placement of nasogastric tube.

Course Content:

Pediatric Health and Diseases
Ethics in Pediatrics and Approach to the Sick Child, History and Patient Management in Pediatrics, Vital Signs and Head and Neck Examination, Introduction of Department Units and Access to Information in Pediatrics, Eye, Ear, Nose and Throat, Circulatory and Respiratory System Examination, Physiological Characteristics of Newborns and Premature Babies, Newborn Examination, Genital Area Examination and Puberty Evaluation, Skin and Extremity Examination, Abdominal and Neurological Examination, Evaluation of Neuromotor Development, Prematurity and Intrauterine Growth Retardation, Upper Respiratory Tract Infection and Otitis, Pneumonia in Children, Newborn Jaundice, Clinical Approach to Neonatal Jaundice, Blood Gases, Neonatal Sepsis and Meningitis, Metabolic Problems of the Newborn, Follow-Up and Discharge Criteria of a Normal Newborn, Oxygen System of the Newborn, Respiratory Distress of the Newborn, Hematological problems of the Newborn, Allergic Rhinitis, Atopic Dermatitis, Urticaria, Angioedema, Recurrent Lung Diseases in Childhood, Humoral Immune Deficiencies, Approach to Chronic Cough in Childhood

Asthma in Childhood,
Cellular Immune Deficiencies,
Treatment of Fluid-Electrolyte Disorders,
Acid-Base Disorders, Acute Rheumatic Fever,
Congestive Heart Failure,
Acyanotic Congenital Heart Diseases,
Cyanotic Congenital Heart Diseases,
Collagen Tissue Diseases,
Vasculitides,
Approach to Acute Altered Consciousness in Children,
Acute Renal Failure, Hypertension,
Perinatal Asphyxia (Asphyxia at Birth, Fetal Distress at Birth),
Nutrition During Infancy,
Rash Diseases,
Vaccination in Children,
Nephrotic Syndrome,
Diabetes Insipidus and Tubulopathies,
Approach to Neuromuscular Diseases in Children,
Epileptic and Non-Epileptic Paroxysmal Events,
Diagnosis and Treatment of Epilepsy,
Myocarditis and Cardiomyopathies,
Endocarditis, Pericarditis,
Diagnosis of Anemia, Treatment of Anemia,
Childhood Adrenal Diseases, Acute Diarrhea in Children,
Approach and Treatment to the Bleeding Patient,
Thrombocytopenia,
Bone Marrow Deficiencies and Leukemias,
Acute Meningitis,
Tuberculosis in Children,
Endocrinology and Evaluation of Growth,
Approach to Short Stature,
Vitamin D Deficiency and Rickets,
Diabetic Ketoacidosis and its Treatment in Childhood,
Newborn Reanimation Preparation,
Neonatal Reanimation,
Solid Tumors,
Treatment of Childhood Cancers,
Lymphadenopathy and Lymphomas, Approach to a Child with Cancer,
Approach to Chronic Diarrhea in Children,
Acquired Thyroid Diseases in Childhood,
Acute Hepatitis and Liver Failure,
Chronic Liver Disease and Portal Hypertension,
Approach to the Child with Fever,
Healthy Child Monitoring,
Peptic Disease, Gastro-Esophageal Reflux and Gastrointestinal Bleeding,
Genetics and Basic Concepts,
Intestinal Parasites in Children,
Approach to Congenital Metabolic Diseases,
Poisonings History of Medicine and Deontology (Pediatric Ethics)

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Anemias, Iron Deficiency Anemia-Nutrition and Vitamin Requirements of the Infant	Approach to the Child with Fever-Acute Otitis Media	Evaluation of a Child with Lymphadenopathy	Cyanotic Congenital Heart Disease-Asyanotic Congenital Heart Disease Diseases
10.30-12.00	Principles of Monitoring Child Health-Principles of Breastfeeding	Routine Vaccination Applications-1 Routine Vaccination Applications-2	Lower Respiratory Tract Infections	Acute Tonsillopharyngitis-Acute Bronchiolitis	Congestive Heart Failure
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Urinary Tract Infections-and Electrolyte Balance	Dysrhythmias	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	Clinical Practice

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Acute Joint Rheumatism	Cystic Fibrosis	Gastroesophageal Reflux-Acute Gastroenteritis and Dehydration	Mechanisms of Homeostasis Bleeding Problems of the Newborn	Urticaria, Anaphylaxis
10.30-12.00	Myocarditis and Cardiomyopathies	Food Allergies-Diabetic Ketoacidosis	Atopic Dermatitis	Common Factor Deficiencies	Basic Characteristics of the Newborn
12.20-13.00	**Lunch Break**				
13.00-15.00	Primary Immune Deficiencies-1-Primary Immune Deficiencies-2	Acute Asthma-Chronic Asthma	Clinical Practice	Clinical Practice	Neonatal Sepsis
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Problems of the Preterm Newborn	Childhood Epilepsies	Respiratory Failure-RDS	Disorders of Amino Acid Metabolism	Short Stature
10.30-12.00	Neonatal Jaundice	Childhood Leukemias and Lymphomas	Perinatal Asphyxia	Carbohydrate/Lipid Metabolism Disorders	Cushing's Syndrome
12.20-13.00	**Lunch Break**				
13.00-15.00	Birth Trauma	Solid Tumors of Childhood Neuroblastoma- Willms Tumor	Clinical Practice	Hypothyroidism	Addison's Disease
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-4TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Parathyroid Gland Diseases and Vitamin D Metabolism	Disorders of Sex Development	Rickets	Diabetes Mellitus	SIRS-Sepsis
10.30-12.00	Diabetes Insipidus	Congenital Adrenal Hyperplasia	Obesity	Tuberculosis and Aseptic Meningitis	HIV Infection
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Clinical Practice	Differential Diagnosis of Arthritis, Osteomyelitis/Septic Arthritis	Clinical Practice
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-5TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Approach to Rash Diseases	Tuberculosis	Current Infectious Diseases (Crimean Congo Hemorrhagic Fever)	Hypertension	Acute Glomerulonephritis
10.30-12.00	Common Parasitic Diseases	Acute Bacterial Meningitis	Current Infectious Diseases (COVID-19)	Clinical Practice	Nephrotic Syndrome
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice	Acute Renal Failure
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE PEDIATRIC HEALTH AND DISEASES PROGRAM-6TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Kawasaki Disease	Wilson's Disease	Muscle Diseases and Demyelinating Diseases	Clinical Practice	EXAM
10.30-12.00	Hepatitis	Febrile Convulsions, Cerebral Palsy, Chorea and Athetosis	Battered Child Syndrome	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Constipation-Chronic Diarrhea and Malabsorption	Hypotone Baby	Independent Study	END OF INTERNSHIP AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

TIP423 Gynecology and Obstetrics (11 credits)

The purpose of this course is to gain information on the gynecology, obstetrics and related issues. It provides sufficient knowledge and skills to diagnose and treat gynecological and obstetrics diseases as expected from a medical doctor. The student will recognize the value of routine health surveillance as part of health promotion and disease prevention. Student demonstrate the ability to perform an accurate pelvic exam in a sensitive manner and properly obtain specimens to detect sexually transmitted infections. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Develop competence in the medical interview and physical examination of women and incorporate ethical, social, and diverse perspectives to provide culturally competent health care,
- Explain the normal physiologic changes of pregnancy including interpretation of common diagnostic studies,
- Know the methods of protection against infectious diseases,
- Describe examination techniques and common problems in obstetrics,
- Demonstrate knowledge of intrapartum care,
- Demonstrate knowledge of postpartum care of the mother and newborn,
- Describe menstrual cycle physiology, discuss puberty and menopause and explain normal and abnormal bleeding,
- Demonstrate knowledge of common benign gynecological conditions,
- Formulate a differential diagnosis of the acute abdomen and chronic pelvic pain,
- Demonstrate knowledge of perioperative care and familiarity with gynecological procedures.

Course Content:

Gynecology and Obstetrics
Genital System Anatomy and Embryology, Formation and Diagnosis of Pregnancy, Pregnancy Endocrinology, Maternal Physiology, Placenta and Fetal Membrane Physiology and Diseases, Normal Birth Mechanisms and Assistance, Normal Puerperium and its Diseases, Operative Birth and Birth Traumas, Postpartum Hemorrhages, Early Pregnancy Complications, Presentation Anomalies, Premature Labor and Premature Rupture of Membranes, Dystocias, Evaluation of Antenatal Fetal Well-Being, Prenatal Diagnosis, Recurrent Pregnancy Losses, Third Trimester Bleeding, Hypertensive Diseases of Pregnancy, Prenatal Care, Pelvic Relaxation, Uterine Malposition, Urinary Incontinence, Intrauterine Growth Retardation, Gestational Diabetes, Pregnancy and Diabetes Mellitus, Malignant Tumors of the Ovary, Sexually Transmitted Diseases, Rh Incompatibility, Trophoblastic Diseases, Multiple Pregnancies, Medical and Surgical Diseases During Pregnancy, Diagnostic and Examination Methods in Gynecology and Obstetrics, Ectopic Pregnancy, Malignant Diseases of Vulva and Vagina, Menstrual Cycle Physiology,

Puberty and its anomalies,
Benign Diseases of the Uterus,
Malignant Diseases of the Corpus Uteri,
Postterm Pregnancies,
Hyperandrogenism,
Diagnosis and Treatment of Infertility,
Benign Tumors of the Ovary,
Amenorrhea,
Dysmenorrhea and Chronic Pelvic Pain,
Abnormal Uterine Bleeding,
Menopause, Malignant Diseases of the Cervix,
Endometriosis,
Pelvic Inflammatory Disease and Genital Tuberculosis,
Benign Diseases of the Vulva and Vagina,
Contraception Methods

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Pelvic Reconstructive Surgery	Assisted Reproductive Techniques (in Vitro Fertilization)	Malignant Lesions of the Vagina and Vulva	Premalignant and Malignant Lesions of the Cervix
10.30-12.00	Dystocia and Operative Delivery	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Endometrium Cancer	Gestational Trophoblastic Diseases	Ectopic Pregnancy	Abnormal Cervical Cytology and Management, Patient for HPV Testing Selection	Preoperative Patient Evaluation and Postoperative Care in Gynecology
10.30-12.00	Ovarian Cancer	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Evaluation of Colposcopy Findings	Preterm and Postterm Pregnancies	Amenorrhea	GDM	Pelvic Inflammatory Diseases
10.30-12.00	Clinical Practice	Hypertensive Diseases of Pregnancy	Clinical Practice	Abnormal Uterine Bleeding	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-4TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Sexually Transmitted Diseases	Benign Lesions of the Vulva and Vagina	Approach to the Infertile Patient	Chronic Pelvic Pain and Endometriosis	Recurrent Pregnancy Losses
10.30-12.00	Clinical Practice	Myoma Uteri	Clinical Practice	Benign Ovarian Tumors	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-5TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Oligohydramnios Polyhydramnios	Antepartum Assessment	Normal Birth	Intrapartum Assessment	Premenstrual Syndrome
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	PCOS	Abortions
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Clinical Practice

IV. GRADE GYNECOLOGY AND OBSTETRICS PROGRAM-6TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Menopause	Intrauterine Growth Retardation and Management	Teratology	Multiple Pregnancies	EXAM
10.30-12.00	Clinical Practice	Antenatal Visit and Anamnesis	Obstetric Bleeding	Puerperium	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	END OF INTERNSHIP AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

TIP406 Radiology and Nuclear Medicine (3 credits)

The purpose of this course is to give a basic information about the radiological methods and radiological procedure used in general radiology and prepare the student to the internship. Utilization of radiology as an educational resource carries great potential. Accreditation bodies, physicians and medical students deem it important for a well- rounded medical curriculum. An overview of clerkship objectives and structure is followed by discussion on lessons learn during the initial three years of institution. Development of assessable objectives, integration of radiology with other specialties, and supervised radiological learning tailored for undergraduate students are emphasized. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course (Radiology) the students will be able to:

- To define the working principles of devices used in basic radiological imaging,
- In emergency clinic, define which radiological imaging and where to use it,
- Learn to interpret radiography of lung, abdomen and bone,
- Describe radiological imaging and findings in pediatric patients,
- Describe where and how interventional radiology is used,
- Describe how interventional radiology procedures are done.

This course (Nuclear Medicine) will cover most of the well-known diagnostic and therapeutic applications of nuclear medicine. The essential purpose of this course is to give sufficient knowledge on fundamental principles of commonly used nuclear medicine tests and therapeutic applications followed by their most relevant indications in routine clinical use. In addition, the basic knowledge about radiation protection and also some information of nuclear medicine imaging instrumentation will be given to the students.

At the end of this course the students will be able to:

- Distinguish between the major forms of radioactive decay,
- Have an understanding of radiation protection basics in related to different types of radiation,
- Have an understanding of the principle of developing radiopharmaceuticals, i.e., labeling radionuclides with different chemicals,
- Have an understanding of underlined pathophysiological processes of commonly used diagnostic and therapeutically nuclear medicine applications,
- Describe common nuclear medicine tests and their indications in the most relevant diseases,
- Describe the main features and mode of operation of gamma cameras and PET scanner.

Course Content:

Radiology and Nuclear Medicine
Definition of the Radiology Department and its Devices, Radiology Physics, Biological Effects of Radiation and Radiation Protection, Imaging Methods and Pathways, Neuroradiology, Head and Neck Radiology and Radiograph Applications, Brain and Spinal CT-MR Applications, Respiratory System Radiology, Lung CT and PA Chest Radiography Applications, Gastrointestinal System and Hepatobiliary System Radiology, Abdomen CT- MR Applications, Applications of Barium GIS Radiographs, Musculoskeletal System Radiology and CT-MRI Applications Direct Bone Radiographs Applications, Pediatric Radiology, Direct Radiography Applications and Contrast-Enhanced Radiography in Pediatric Radiology, CT-MRI Applications in Pediatric Radiology

Urogenital System Radiology,
Urogenital System CT-MRI Applications,
Contrast-Enhanced Urinary System Radiographs Applications,
Cardiovascular System Radiology,
Interventional Radiology,
Breast Diseases Radiology,
Mammography Applications,
Radiological Approach to Trauma
Introduction to Nuclear Medicine,
Radiation, Radiation Protection,
Nuclear Medicine in Endocrine System Diseases,
Nuclear Medicine in Musculoskeletal Diseases,
Nuclear Medicine in Cardiovascular System/Respiratory System Diseases,
Nuclear Medicine in Gastrointestinal System/Genitourinary System Diseases,
Positron Emission Tomography Non-Endocrine Radionuclide Treatments,
Basic Radiation Physics / Basic Radiation Biology,
Radiotherapy in Gynecological Cancers,
Radiotherapy in Breast Cancer,
Radiotherapy in Urinary System Cancers,
Radiotherapy for Head and Neck Cancers,
Radiotherapy for Gastrointestinal System Cancers,
Radiotherapy for Lung Cancers,
This Clerkship Integrates a One-Week Focus on Radiation Safety,
Training Includes Radiation Doses in Diagnostic and Interventional Radiology, use of Protective Equipment, and Legal Regulations Regarding Radiation Protection in Healthcare,
The student applies the ALARA principle, radiation dose thresholds, patient and staff safety measures, and appropriate imaging algorithms in emergency settings

TIP407 Anesthesiology and Reanimation (3 credits)

The purpose of this course is to teach trainees the basic theoretical knowledge and practical applications on anesthesia, intensive care and pain issues. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and for foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Demonstrate the ability to assess a patient in the preoperative period and formulate a basic management plan,
- Demonstrate the ability to take a focused history and physical examination, including anesthetic history and airway exam,
- Develop a plan for preoperative investigations and interpret these investigations,
- Understand and explain the risks and benefits associated with regional versus general anesthesia,
- Develop an approach to acute resuscitation including appropriate fluid therapy,
- Develop an approach to perioperative pain management, intensive care patients and the care of the post- op patients,
- Demonstrate competency in airway management and other procedural skills relevant to the perioperative period.

Course Content:

Anesthesiology and Reanimation
Introduction to Anesthesia and Inhalation Anesthetic Agents, Anesthesia Preparation and Premedication, Intravenous Anesthetics and Muscle Relaxants, Blood Products and Their Complications, Regional Anesthesia, Fluid-Electrolyte and Acid-Base Balances, Monitoring, Local Anesthetics and their Toxic Reactions, Cardiopulmonary Resuscitation, Airway Safety and Alternative Methods, Mechanical Ventilation, Advanced Life Support, Pediatric Life Support, Long-Term Life Support, Pain and its Treatment, Oxygen Therapy, Postoperative Anesthesia Complications, Nutrition, Intensive Care Criteria and Brain Death

TIP408 Rational Use of Drugs (3 credits)

The purpose of this course is to teach students how to write out a prescription in accordance with the rules of pharmacology and that is supported by rational data; to teach detecting patient's problem (communicating with patients and their relatives and provide them with the right information), explaining the rational pharmacotherapy, examining the effectiveness of drugs, how to apply the drug doses (I.V. injection, I.V. infusion, subcutaneous injection and local administration applications). *Prerequisites: TIP301, TIP302, TIP303, T1P304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Write a prescription in accordance with the rules of pharmacology and that is supported by rational data,
- Grasp the patient's problem (communicating with patients and their relatives and provide them with the right information),
- Explaining the pharmacotherapy (decide on a rational pharmacotherapy),
- Examining the effectiveness of drugs, how to apply the drug doses (IV. Injection, IV. Infusion, subcutaneous injection and local administration applications),
- Write a complete and correct prescription by using personal drug list.

Course Content:

Rational Use of Drugs
"Groningen" Model in Rational Pharmacotherapy Education, Principles of Rational Pharmacotherapy, Personal Medications, Introduction of "MAUA" Forms, Rational Treatment Optimization Analysis Application, Prescribing Rules, Good and Bad Prescription Examples, Use of Resources (STTR, Formulas etc.) in Prescribing, Urinary Tract Infection, Diagnosis, Treatment Targets, Non-Pharmacological and Pharmacological Treatment Methods, Urinary Tract Infection, Personal Drug Selection, Urinary Tract Infection Case Studies, Personal Drug Selection for Asthma Treatment, Asthma Case Analyses, Development of New Drugs, Essential Hypertension, Treatment Targets, Pharmacological Treatment Methods and Antihypertensive Drugs, Treatment of Essential Hypertension, Creation of Individual Drug Groups, Essential Hypertension Case Studies, Diabetes Treatment Targets, Pharmacological Treatment Methods and Antidiabetic Drugs, Personal Drug Selection for Diabetes Treatment, Diabetes Case Analyses, Personal Drug Selection for Osteoarthritis, Osteoarthritis Case Analyses, Personal Drug Selection for Acute Peptic Gastralgia, Case Studies for Acute Peptic Gastralgia, Personal Drug Selection for Acute Tonsillopharyngitis, Acute Tonsillopharyngitis Case Analyses, Dysmenorrhea and Case Studies, Medicines used in Emergency Services, Allergic Events and Anaphylactic Reactions, Personal Drug Selection for Hyperlipidemia, Hyperlipidemia Case Solutions

IV. GRADE RATIONAL USE OF DRUGS PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Pharmacovigilance Definition and Applications	What is a Prescription and Electronic Prescription? What is Non-Prescription Medicines? What Should be Considered When Using Multiple Medications?	Rational Use of Drugs in Special Situations 2- Rational Drug Use in Children	Rational Drug Use in People with Chronic Diseases 1: Drugs Used in the Treatment of Hypertension, Medicines the Treatment of Asthma/COPD
10.30-12.00	Basic Information on Rational Drug Use; Rational Drug Use in the World and Turkey	Clinical Practice	Rationalization of Medicines in Special Situations Usage 1- Rational Use in Pregnant and Breastfeeding Medication Use	Rational Use of Drugs in Special Situations 3- Advanced Rational Drug Use in Elderly Patients	Rational Use of Medicines in People with Chronic Diseases 2: Medicines Used in the Treatment of Diabetes Drugs, Hyperlipidemia Medicines Used in Treatment
12.20-13.00	**Lunch Break**				
13.00-15.00	Duties of Healthcare Professionals in Rational Use; Public Role in Rational Use	Independent Study	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

IV. GRADE RATIONAL USE OF DRUGS PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Rational Drug in People with Chronic Diseases Psychiatric and Neurological Diseases Medicines Used in Treatment	Rational Antibiotic Use	Poisoning and Antidote Therapy	Independent Study	EXAM
10.30-12.00	Rational Use of Analgesics, Vitamins, Minerals and Dietary Supplements	Errors and Examples of Application Errors	Poisoning with Herbal Products and Interactions	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Poisoning and Antidote Therapy	Clinical Practice	Independent Study	END OF INTERNSHIP FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	

TIP424 Family Medicine (2 credits)

To protect and improve individual, family and community health; The aim of this course is to meet the patient at the primary level in accordance with the principles of medical ethics, to take anamnesis, to make an examination, to plan the diagnosis and treatment, to evaluate the emergencies, to provide the necessary knowledge, skills and attitudes put referral indications. *Prerequisites: TIP301, TIP302, TIP303, TIP304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Communicates effectively with patients and their relatives and receives anamnesis for general and systems,
- Perform general and detailed physical and mental examinations,
- Pre-diagnoses based on the anamnesis and physical examination findings, selects the necessary diagnostic tests to test the preliminary diagnoses and make differential diagnosis,
- Describes the priorities and limitations of diagnostic tests, evaluates the results of tests,
- Makes a differential diagnosis by evaluating the results of anamnesis, physical examination and diagnostic tests and diagnoses at the primary level,
- Plan treatment at primary level in accordance with diagnosis,
- Perform basic interventional procedures for diagnosis and treatment (such as catheter insertion, blood collection, vascular access, injection),
- Explains the diagnosis and treatment approaches of diseases at primary level,
- Explains the mechanism of action, indications, contraindications, side effects and drug interactions of drugs used at primary level and arranges prescriptions in accordance with rational drug principles,
- Recognizes emergency situations, makes the first attempts to provide basic life support,
- Explain referral indications for further examination and treatment and appropriate referral principles under appropriate conditions,
- Explains epidemiology, etiology, physiopathological mechanisms and clinical features of diseases,
- Explains the basic ethical issues encountered in clinical practice,
- Reach information according to learning needs, critically evaluate the information,
- Explain the dead examination and reporting processes.

Course Content:

Family Medicine
Definition and Basic Principles of Family Medicine, Family-Health Relationship, Genogram Preparation and Interpretation, Biopsychosocial Approach, Fundamentals of Communication, Aging and its Problems in Family Medicine, Home Care, Functional Health Status, Evidence-Based Medicine, Introduction to Adult Education Principles and Patient Education, Continuity of Care and Family Medicine, Patient-Physician Meeting, Patient Education and its Importance in Primary Care, Clinical Problem Solving in Primary Care, Quality Management in Primary Care, In primary care, the student provides guidance on work-related diseases and occupational risk counseling, including PPE use and vaccinations (tetanus, HBV, etc.).

IV. GRADE FAMILY MEDICINE PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Basic Principles of Communication	Patient-Physician Interview Other Part of the Story Elements of the Interview Finishing	Reports in Primary Care	AH in the World and Turkey
10.30-12.00	Definition and History of Family Medicine	Empathy	Building Rapport with the Patient	Patient Physician Difficult Situations in his Interview	Record Keeping
12.20-13.00	**Lunch Break**				
13.00-15.00	Principles of Family Medicine	Patient-Physician Interview Patient Perspective on Primary Care	Clinical Method in Family Medicine	Delivering Bad News	Approach to Angry Patients and Relatives
15.00-16.00	Clinical Practice (General FM)	Clinical Practice (Neurological Examination)	Clinical Practice (Cardiologic)	Clinical Practice (Urogenital Examination)	Clinical Practice (Head and Neck Examination)

IV. GRADE FAMILY MEDICINE PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Family-Oriented Care	Story in Different Age Groups	Primary Care Approach to URTI and LRTI	Palliative Care	EXAM (Written exam, file-based assessment, mini clinical exam)
10.30-12.00	Violence in Health	Elderly Patient Physical Examination	Periodic Health Assessment	BioPsychoSocial care	EXAM (Written exam, file-based assessment, mini clinical exam)
12.20-13.00	**Lunch Break**				
13.00-15.00	End-of-Life Care	Rational Drug Use	Contextual Care	Independent Study (Patient File preparation)	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Clinical Practice (GIS Examination)	Clinical Practice (Musculoskeletal system Examination	Clinical Practice (General Examination in Pediatric Patients)	Independent Study (Patient File preparation)	

TIP425 Emergency Medicine (2 credits)

The purpose of this course is to gain essential emergency medicine knowledge. Students should integrate the knowledge they have obtained in medical school so far to focus on evaluation and treatment of acute presentations. Students describe the importance of effective communication at all levels for patient care in the emergency department, and demonstrate effective communication skills. Students appreciate the clinical challenge of managing multiple patients simultaneously, each at different stages of evaluation and treatment. *Prerequisites: TIP301, TIP302, TIP303, T1P304, TIP305, TIP306, TIP307 and For foreign students; pass The Turkish Language Exam.*

At the end of this course the students will be able to:

- Describe frequent medical presentations and their evaluation and treatment,
- Diagnose and treat frequently encountered surgical problems,
- Perform emergency surgical procedures like placement of thoracal tube, tracheotomy, lumbar punction, blood-gas analysis, and intubation.,
- Applicate casting and bandages for common orthopedic problems,
- Perform suturing of the wounds and their appropriate care.

Course Content:

Emergency Medicine
Patient Care Principles in the Emergency Department, Cardiopulmonary Resuscitation, Approach to the Patient with Multiple Trauma, Airline Management, Triage, Basic ECG, Tachycardia-Bradycardia Algorithms, Practical Training Program, The Faculty Member Consists of Bedside Visits

IV. GRADE EMERGENCY MEDICINE PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Approach to Shortness of Breath	Brain Death-Sepsis	Approach to the Stroke Patient in the Emergency Department	Introduction to Toxicology
10.30-12.00	Shock-Syncope	Oxygenation Methods	Advanced Cardiac Life Support	Approach to the Patient with Seizure in the Emergency Department	Basic ECG
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Approach to Headache	Approach to Abdominal Pain	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	Clinical Practice

IV. GRADE EMERGENCY MEDICINE PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	ECG in Acute Coronary Syndromes	Right/Left Bundle Branch Block	Approach to the Patient with Head Trauma-Patient with Cervical Trauma Approach	Approach to Pediatric Head Trauma	EXAM
10.30-12.00	Differential Diagnosis of ST Elevation	Tachycardias	Approach to the Patient with Thoracic Trauma-Abdominal Trauma Approach to the Patient	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	ECG in Chest Pain	Approach to the Multiple Trauma Patient	Maxillofacial Traumas	Independent Study	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

Curriculum Phase V

COURSE PLAN

Code	Course Title	*C	**A	ECTS
TIP501	Cardiovascular Surgery	Yes	Yes	**2**
TIP502	Chest Diseases	Yes	Yes	**5**
TIP503	Thoracic Surgery	Yes	Yes	**2**
TIP504	Dermatology	Yes	Yes	**5**
TIP505	Ear, Nose and Throat	Yes	Yes	**5**
TIP506	Infectious Diseases	Yes	Yes	**5**
TIP508	Neurosurgery	Yes	Yes	**5**
TIP511	Pediatric Surgery	Yes	Yes	**2**
TIP512	Physical Medicine and Rehabilitation	Yes	Yes	**5**
TIP513	Plastic and Reconstructive Surgery	Yes	Yes	**2**
TIP515	Urology	Yes	Yes	**2**
TIP519	Neurology	Yes	Yes	**4**
TIP535	Ophthalmology	Yes	Yes	**4**
TIP536	Orthopedics and Traumatology	Yes	Yes	**4**
TIP537	Psychiatry	Yes	Yes	**4**
TIP541	Cardiology	Yes	Yes	**4**
			Total:	**60**

*C: Compulsory
**A: Average

OKAN UNIVERSITY FACULTY OF MEDICINE 5TH GRADE INTERNSHIP PROGRAM

INTERNSHIP	Duration/Week	TIP 1	MED 1	TIP 2	MED 2
CARDIOLOGY	3	25.09/13.10	16.10/03.11	06.11/24.11	27.11/15.12
CHEST DISEASES	3	16.10/03.11	25.09/13.10	27.11/15.12	06.11/24.11
ENT DISEASES	3	27.11/15.12	06.11/24.11	25.09/13.10	16.10/03.11
NEUROLOGY	3	06.11/24.11	27.11/15.12	16.10/03.11	25.09/13.10
CARD. V. SURGERY	1	18.12/22.12	25.12/29.12	01.01/05.01	08.01/12.01
THORACIC SURGERY	1	25.12/29.12	18.12/22.12	08.01/12.01	01.01/05.01
PEDIATRIC SURGERY	1	01.01/05.01	08.01/12.01	18.12/22.12	25.12/29.12
PLASTIC REC. SURGERY	1	08.01/12.01	01.01/05.01	25.12/29.12	18.12/22.12
DERMATOLOGY	2	15.01/26.01	05.02/16.02	19.02/01.03	04.03/15.03
PHYSICAL MED. AND R.	2	05.02/16.02	15.01/26.01	04.03/15.03	19.02/01.03
INFECTION DISEASES	2	04.03/15.03	19.02/01.03	15.01/26.01	05.02/16.02
UROLOGY	2	19.02/01.03	04.03/15.03	05.02/16.02	15.01/26.01
ORTHOPEDICS AND T.	3	18.03/05.04	08.04/26.04	29.04/17.05	20.05/07.06
NEUROSURGERY	3	08.04/26.04	18.03/05.04	20.05/07.06	29.04/17.05
PSYCHIATRY	3	20.05/07.06	29.04/17.05	18.03/05.04	08.04/26.04
OPHTHALMOLOGY	3	29.04/17.05	20.05/07.06	08.04/26.04	18.03/05.04
29.01.-02.02.2024 SEMESTER HOLIDAY MAKE-UP EXAMS (ALL SECTIONS)					
17.06.-21.06.2024 MAKE-UP EXAMS (ALL SECTIONS)					

TIP501 Cardiovascular Surgery (2 credits)

The purpose of this course is to learn of cardiac valvulopathies, e.g., mitral valve disease, aortic insufficiency, etc. Students understand difference of biologic and mechanic valvular prosthesis. They learn cyanotic and acyanotic congenital heart disease e.g. ASD, VSD, TOF, TGA, etc. Students acquire essential knowledge on the cardiopulmonary bypass. They understand atherosclerotic heart disease, coronary artery bypass surgery and cardiovascular emergencies. Students learn general vascular problems including varicose veins, limb ischemia. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Learn of cardiac valvulopathies, e.g., mitral valve disease, aortic insufficiency, etc.,
- Describe the difference of biologic and mechanic valvular prosthesis,
- Describe the cyanotic and acyanotic congenital heart disease e.g., ASD, VSD, TOF, TGA, etc.,
- Describe the essential knowledge on the cardiopulmonary bypass,
- Describe atherosclerotic heart disease, coronary artery bypass surgery and cardiovascular emergencies,
- Learn of general vascular problems including varicose veins, limb ischemia.

Course Content:

Cardiovascular Surgery
Cardiopulmonary Bypass Physiology and Working Mechanism, Surgical Treatment of Ischemic Heart Diseases, Surgical Treatment of Mechanical Complications of Ischemic Heart Diseases, Valve Diseases, Cardiac Radiology, Valve Diseases and Bacterial Endocarditis Surgery, Surgical Treatment of Congenital Heart Diseases, Surgical Treatment of Aortic Aneurysms and Dissections, Approach to Arterial Injuries, Venous System Diseases, Approach to Venous Injuries

IV. GRADE CARDIOVASCULAR SURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Heart-Lung Machine	Aortic Aneurysms and Dissection	Coronary Artery Diseases and Surgical Treatment-Aortic Valve Diseases and Surgical Treatment	EXAM
10.30-12.00	Cardiovascular System Anamnesis, Examination and Diagnostic Tests	Congenital Heart Diseases-Peripheral Artery Diseases-Carotid Artery Diseases	Cardiopulmonary Bypass, Myocardial Protection and Resuscitation	Adult Intensive Care Patient Monitoring and Evaluation	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Mitral and Tricuspid Valve Diseases and Surgical Treatment	Heart and Great Vessel Injuries Venous System and Lymphatic System Diseases	Pericardial Diseases and Heart Tumors	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	

TIP502 Chest Diseases (5 credits)

The purpose of this course is to learn diagnose and treatment of the respiratory diseases. Practical sessions aim to teach the evaluation of respiratory symptoms and findings, principles of physical examination so that a proper dialogue between the physician-to be and patient could establish. Respiratory diseases are the most common diseases that physician can come across during clinical practice. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Diagnose and treatment of the respiratory diseases,
- Understand the evaluation of respiratory symptoms and findings,
- Describe the principles of physical examination so that a proper dialogue between the physician-to be and patient could establish,
- Define and treatment respiratory diseases that are the most common diseases physician would come across during clinical practice,
- Define spirometric examination and evaluation of the results.

Course Content:

Chest Diseases
Introduction to Chest Diseases, Anamnesis, Respiratory System Radiology, Nuclear Medicine in Respiratory System Diseases, Approach to Hemoptysis, Approach to Respiratory Failure, Tobacco and Lung, Occupational Lung Diseases, Pulmonary Thromboembolism, Pleural Diseases, Lung Tumors, Bronchial Asthma, Respiratory System Emergencies, COPD Diagnosis and Treatment, Cor Pulmonale, ARDS and Pulmonary Edema, Pulmonary Tuberculosis, Diagnosis of Sleep Breathing Disorders, Treatment of Sleep Breathing Disorders, Pneumonia, Sarcoidosis, Pleural Effusion, Bronchiectasis, Interstitial Lung Diseases, Lung Abscess

V. GRADE CHEST DISEASES PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Physical Examination	Asthma	Acute Bronchitis, Bronchiolitis , Community Acquired Pneumonia	Tuberculosis
10.30-12.00	Respiratory Physiology	Lung Radiology and Other Imaging Techniques	COPD	Hospital Pneumonia Lung Abscess	Sleep Respiratory Disorders
12.20-13.00	**Lunch Break**				
13.00-15.00	Respiratory System Anamnesis	Lung Radiology and Other Imaging Techniques	Asthma-COPD Interactive	Independent Study	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice

V. GRADE CHEST DISEASES PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Respiratory Function Test	Pulmonary Embolism	Bronchoscopy, Lung Cancer	Bronchiectasis	Respiratory Failure
10.30-12.00	Arterial Blood Gas Collection	Pulmonary Hypertension Cor Pulmonale	Independent Study	Clinical Practice	ARDS
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Independent Study	Independent Study	Clinical Practice

V. GRADE CHEST DISEASES PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Interstitial Lung Diseases	Hypersensitivity Pneumonia	PPD Test	Ability to Perform Pleural Puncture/ Thoracentesis	EXAM
10.30-12.00	Sarcoidosis	Pleura and Mediastinum Diseases	Clinical Practice	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

TIP503 Thoracic Surgery (2 credits)

The purpose of this course is to diagnose and treat diseased or injured organs in the thorax. It mainly includes the diseases of the lungs in which a general practitioner has to know and recall main pathologies. This clerkship aims to teach practical methods for diagnosis and major rules of clinical approach to a patient with thoracic trauma. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Diagnose and treat diseased or injured organs in the thorax,
- Describe diseases of the lungs in which a general practitioner has to know and recall main pathologies,
- Describe practical methods for diagnosis and major rules of clinical approach to a patient with thoracic trauma,
- Describe chest tube application,
- Describe lung biopsy procedures.

Course Content:

Thoracic Surgery
Clinical Evaluation of the Musculoskeletal System, Anamnesis and Approach to Pain in the Musculoskeletal System, Neurological and Spine Examination, Approach to the Patient with Neck and Chest Pain, Cervical and Lumbar Region Examination, Upper and Lower Extremity Examination, Pharmacological Treatment in Rheumatic Diseases, Pharmacological Treatment Methods, FTR Modalities in Medical Rehabilitation, Therapeutic Exercises, Occupational Therapy, Orthotics-Prostheses and Spa Treatment, Paraplegia-Tetraplegia; Etiology, Treatment and Rehabilitation, Rheumatoid Arthritis, Seronegative Spondyloarthropathies, Ankylosing Spondylitis, Acute Joint Rheumatism, Osteoarthritis, Cerebral Palsy, Stroke Patient Examination, Stroke Rehabilitation, Examination of Patients with Spinal Cord Injury, Local and Systemic Effects of Immobility, Osteoporosis, Osteomalacia, Paget's Disease, Motor Neuron Diseases and Rehabilitation, Upper Extremity Pain, Extra-Articular Rheumatic Diseases, Neurogenic Bladder and Bowel Dysfunction, Neck and Low Back Pain, Fibromyalgia Syndrome, Radiological Evaluation in FTR Orthopedic Diseases and Rehabilitation, Intermittent Arthropathies, Lower Extremity Pain, Musculoskeletal System Findings in Collagen Tissue Diseases, Musculoskeletal Findings in Endocrine, Hematological and Malignant Diseases

V. GRADE THORACIC SURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Surgical Approach to Thoracic Surgery Emergencies	Surgical Treatment of Diaphragm, Pleura and Mediastinum Diseases	Empyema, Lung Abscess, pulmonary Hydatid Cyst and Surgical Treatment	EXAM
10.30-12.00	Respiratory System Examination	Pulmonary Surgical Treatment of Embolism	Hyperhidrosis and its Surgical Treatment	Thoracic Exit Syndrome and its Surgical Treatment	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Pneumothorax – Hemothorax – Chylothorax and Emergency Approach	Surgical Treatment of Tracheal Diseases and Bronchiectasis	Chest Wall Deformities and Diseases	Lung transplantation	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	

TIP504 Dermatology (5 credits)

The purpose of this course is to provide a learning environment for the student to develop basic dermatology skills. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to

- Obtain a relevant dermatological history,
- Perform physical examination of the integument system,
- Describe accurately morphology of lesions and eruptions on patients and treatment them.

Course Content:

Dermatology
The Structure of the Skin, its Functions and Dermatological Examination, Primary and Secondary Elemental Lesions, Viral Skin Infections, Superficial Fungal Infections of the Skin, Bacterial Infections of the Skin, Dermatoses due to Physical Factors, Dermatological Treatment Principles, Dermatitis, Genetically Transmitted Skin Diseases, Parasitic Diseases of the Skin, Recognition of Elementary Lesions, Psoriasis, Other Skin Diseases with Erythematous Squama, Dermatological Treatment Methods, Urticaria, Reactive Skin Diseases, Topical Treatment Principles, Acne Vulgaris and Rosacea, Other Skin Appendage Diseases, Examination of Skin Appendages, Benign Skin Tumors, Malignant Skin Tumors, Syphilis and Other Sexually Transmitted Diseases, Review of Skin Reactions, Behcet's Disease, Bullous Skin Diseases, Protection Against Skin Infections and Infestations, Approach to the Itchy Patient, Diagnostic Methods in Skin Diseases, Dermatological Emergencies, Approach to Patients with Acne, Sun Protection, Case Evaluations, Prescription Writing

V. GRADE DERMATOLOGY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Dermatological Examination and Topical Treatment	Bacterial Skin Diseases	Acne Vulgaris , Seborrheic Dermatitis, Rosacea	RAS and Behcet's Disease
10.30-12.00	Clinical Practice	Elementary Lesions	Clinical Practice	Urticaria, Angioedema	Viral Skin Diseases
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Fungal Diseases
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Papulosequamous Diseases

V. GRADE DERMATOLOGY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Atopic Dermatitis	Bullous Diseases	Skin Cancers and Precancerous Lesions	Parasitic Diseases	EXAM
10.30-12.00	Venereal Diseases	Clinical Practice	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	

TIP505 Ear, Nose and Throat (5 credits)

The purpose of this course is to teach about ear, nose, throat, head and neck region, covered by auditory, vestibular system, facial nerve, salivary glands, face region, paranasal sinuses, nasopharynx, oral cavity, oropharynx, hypopharynx, larynx anatomy, physiology, and diagnosis and treatment of diseases that they will encounter in their professional life. Students learn basic audiology knowledge and audiometry devices and the basic examination methods. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Describe the clinical anatomy of ear, nose, throat, head and neck region, covered by auditory, vestibular system, facial nerve, salivary glands, face region, paranasal sinuses, nasopharynx, oral cavity, oropharynx, hypopharynx, and larynx,
- Define physiology of hear in normal and pathological condition,
- Recognize common disease of ear nose and throat,
- Describe basic audiology knowledge, audiometry devices and the basic examination methods,
- Define the technique and indications of trachea and laryngotomy,
- Describe the management of endotracheal tube.

Course Content:

Ear, Nose and Throat
Ear, Nose and Throat (ENT) Physical Examination, Hearing and Assessment, Audiology Balance and Evaluation, Outer and Middle Ear Diseases, Acute and Chronic Otitis Media, Otitis Complications, Inner Ear Diseases, Otoscopic Examination, Tuning Fork Tests, Hearing Loss and Evaluation of Sudden Hearing Loss, Dizziness, Approach to Sore Throat, Approach to Ear Pain, Approach to Vertigo, Tinnitus and Vestibular Schwannoma, Facial Paralysis, Acute and Chronic Rhinosinusitis, Sinusitis Complications, Epistaxis, Anterior Packing Application, Rhinosinusal Tumor, Septal Deviation, Perforation, Nasopharyngeal Diseases, Acute Tonsillopharyngitis, Laryngeal Obstruction, Laryngeal Non-Neoplastic Diseases, Larynx Tumors, Salivary Gland Diseases and Tumors, Ear Traumas, Gastroesophageal Reflux, Snoring and Sleep Apnea, Neck Masses, Lymphadenopathy, Torticollis, Oral Cavity and Oropharynx Tumors, Nasogastric Tube Applications, Prescriptions in ENT

V. GRADE ENT PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Tracheal Problems	Approach to Neck Masses	Acute Otitis Media	With Effusion Otitis Media
10.30-12.00	Nose and Paranasal Sinuses	Clinical Practice	Head and Neck Cancer	Chronic Otitis Media	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

V. GRADE ENT PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Salivary Gland Diseases	Sudden Hearing Loss	Facial Nerve Paralysis	Nasal Congestion	Nosebleed
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Rhinosinusitis	Hoarseness
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Independent Study
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Clinical Practice

V. GRADE ENT PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Obstructive Sleep Apnea Syndrome	ENT Emergencies	Vertigo	Independent Study	EXAM
10.30-12.00	Hereditary Diseases of the Larynx	Hearing Physiology	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	

TIP506 Infectious Diseases (5 credits)

The purpose of this course is to the acquisition of knowledge regarding etiology, diagnosis, laboratory findings, clinical characteristics and treatment modalities of infectious diseases. Understanding how a patient's social history (travel, HIV risk factors, exposures) can have a significant impact on the differential diagnosis and management of infections, antibiotic selection and therapy including familiarity with major classes, choosing appropriate antibiotics and monitoring for antibiotic toxicities are learned. Exposure to a broad range of major syndromes including community and hospital-acquired pneumonia, infective endocarditis, cellulitis, urinary tract infections and the evaluation of fever, appropriate use of diagnostic services including gram stain and culture, antimicrobial sensitivity testing and other standard microbiology lab techniques, understanding basic principles of infection control are described. Approach to critically ill patients and immunosuppressed patients, as well as an understanding of their specific spectrum of diseases are discussed. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Recognize bacterial, viral, fungal or parasitic infections,
- Define regarding etiology, diagnosis, laboratory findings, clinical characteristics and treatment modalities of infectious diseases,
- Define differential diagnosis and management of infections, antibiotic selection and therapy in infectious diseases,
- Describe community and hospital-acquired pneumonia, infective endocarditis, cellulitis, urinary tract infections and the evaluation of fever,
- Describe appropriate use of diagnostic services including gram stain and culture, antimicrobial sensitivity testing and other standard microbiology lab techniques,
- Define basic principles of infection control such as contact or respiratory isolation and contact tracing, exposure to critically ill patients and immunosuppressed patients, as well as an understanding of their specific spectrum of diseases.

Course Content:

Infectious Diseases
General Characteristics of Infectious Diseases, Upper and Lower Respiratory Tract Infections, Sepsis, Lymphadenopathy and Fever, Antimicrobial Chemotherapy, Sexually Transmitted Diseases, HIV Infection and AIDS, Central Nervous System Infections, Infectious Jaundice, Skin and Soft Tissue Infections, Transfusion Transmitted Infections, Infectious Diarrhea, Adult Immunization, Fever and Rash, Diagnostic Methods of Infectious Diseases, Hospital Infections, food Poisoning, Travel-Related Infections, Approach to Urinary Infections, New Infections on the Agenda

V. GRADE INFECTIOUS DISEASES PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Disinfection, Antisepsis and Sterilization in Daily Practice	Approach to the Patient with Community-Acquired Acute Fever	In Adults Immunization: Vaccination and Immunoprophylaxis	Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Diagnosis
10.30-12.00	Microbiology Update	Infectious Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches and Fever of Unknown Origin	Community-Based in Infections Antimicrobial Agent, Disease Prevention and Control	Approach to the Patient with Diarrhea, New and Re-Emerging Infections	Urinary Tract Infection
12.20-13.00	**Lunch Break**				
13.00-15.00	Differential Diagnosis and Rational Laboratory Use in Infectious Diseases	Sepsis and Septic Shock	Central Nervous System Infections -HIV -AIDS	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Rabies: Clinic, Diagnosis and Prevention	Clinical Practice	Independent Study

V. GRADE INFECTIOUS DISEASES PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Skin and Soft Tissue Infections and Diabetic Foot	Tick-Borne Infections: CCHF, Tick Encephalitis, Lyme Disease	Important Parasitic Infections and Acute Viral Hepatitis	EXAM
10.30-12.00	Travel Health and Related Infections	Bone and Joint Infections	Upper Respiratory Tract Infections: Influenza, Mononucleosis Syndrome, Common Cold	Intra-Abdominal Infections	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Healthcare Related in Infections Prevention and Control	Zoonotic infections	Migration and Infectious Diseases	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Cellulite	Clinical Practice	Independent Study	

TIP519 Neurology (4 credits)

The purpose of this course is to gain knowledge and skills about clinical neurology topics. A complete and reliable history, a complete neurological examination and some specific diagnostic tests (EEG, EMG) are necessary to evaluate neurological disease. Students acquire the ability to recognize and interpret neurological symptoms (such as disorders of consciousness, sense disorders, balance disorders, motor function and autonomic dysfunction) and they learn how to treat them. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Recognize common neurological disease,
- Elicit a general and focused neurological history,
- Generate a differential diagnosis for common neurological complaints,
- Perform and interpret a neurological examination,
- Demonstrate a basic understanding of the common indications and interpretations for neurological diagnostics (e.g., EEG, EMG, lumbar puncture, CT and MR imaging),
- Recognize and treatment to neurological emergencies.

Course Content:

Neurology
Introduction to Neurology, Anamnesis and Diagnostic Methods, Neurological Examination, Cranial Nerves, Approach to the Coma Patient, Causes and Treatment of Vertigo, Headaches and Neuralgias, Cerebrovascular Events and Approach to the Stroke Patient, Intracerebral Hemorrhages and Subarachnoid Hemorrhage, Approach to the Patient with Epilepsy and Fainting, Electroencephalography (EEG), Peripheral Neuropathies, Cognitive Disorders and Dementia Syndromes, Multiple Sclerosis and Demyelinating Diseases, Muscle Diseases, Movement Disorders and Parkinson's disease, Hyperkinetic Movement Disorders, Approach to the Patient with Vertigo, Neuromuscular Junction Diseases, Myasthenia Gravis, Paraneoplastic Syndromes, Sleep Disorders, Medulla Spinalis Diseases, Central Nervous System Infections and Encephalitis, Motor Neuron and Anterior Horn Diseases

V. GRADE NEUROLOGY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Cognitive Disorders	Headaches	Ataxias	Clinical Practice
10.30-12.00	Neurological Diseases	Clinical Practice	Speech Disorders	Stroke	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study

V. GRADE NEUROLOGY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Multiple Sclerosis	Peripheral Neuropathies	Neuralgias	Neuromuscular Junctional Diseases	Muscle Diseases
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice

V. GRADE NEUROLOGY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Parkinson's Disease	Cranial Neuropathies	Epilepsy	Clinical Practice	EXAM
10.30-12.00	Neurocutaneous Diseases	Clinical Practice	Clinical Practice	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	

TIP508 Neurosurgery (5 credits)

The purpose of this course is to train medical student to become proficient in diagnosis and treating neurosurgical emergencies. The students shall also learn the general outline of neurosurgical pathologies, the diagnostic work up differential diagnosis and treatment options. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Recognize common neurosurgical conditions presentations,
- Preparation of the neurosurgical patient for the operation,
- Generate a differential diagnosis for common neurological complaints,
- Perform and interpret a neurological examination, localize a lesion based on clinical information and neurological examination,
- Demonstrate a basic understanding of the common indications and interpretations for neurological diagnostics (e.g., EEG, EMG, lumbar puncture, CT and MR imaging, angiology, pathological examinations),
- Develop a practical approach to the evaluation and management of common neurological complaints,
- Describe emergency neurosurgical conditions.

Course Content:

Neurosurgery
Introduction to Neurosurgery, Neuroanatomy and Neurophysiology, Neurological Examination, Intracranial Pressure (ICP) and Increased ICP and Hydrocephalus, Head Trauma, Evaluation and Management, Cerebrovascular Diseases: Intracerebral Hematomas and Subarachnoid Hemorrhage, Brain Tumors, Diagnosis and Treatment Method, Congenital Cranial and Spinal Anomalies, Spinal Trauma and Medulla Spinalis Injuries, Spinal Deformities, Degenerative Spine Diseases, Tumors of Spine and Spinal Cord Tumors, Peripheral Nerve Injuries and Trap Neuropathies, Cranial and Spinal Infections, Neuromodulation

V. GRADE NEUROSURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Term V-Internship Introduction	Examination of Cranial Nerve Pairs	Cranial Vascular Malformations	Spinal Tumors	Approach to the Unconscious Patient
10.30-12.00	Neurological Examination and GCS	Cranial Surgery Anatomy	Central Nervous System Tumors	Approach to the Patient with Subarachnoid Hemorrhage	Evaluation of Patient with SAH in Intensive Care Unit
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice

V. GRADE NEUROSURGERY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Sensory Examination	Examination of the Patient with Spinal Trauma	Brain Abscess	Neurosurgical Emergencies	Subdural Hematoma
10.30-12.00	Engine Inspection	Cranial Neuroradiology Epidural Hematoma	Congenital Malformations	Neurosurgical Emergencies	Cerebral Herniations
12.20-13.00	**Lunch Break**				
13.00-15.00	Spine and Spinal Cord Traumas	Clinical Practice	Clinical Practice	Approach to the Emergency Neurosurgical Patient	Clinical Practice
15.00-16.00	Spinal Surgery Anatomy	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice

V. GRADE NEUROSURGERY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Initial Approach, Followup and Treatment of Patients with Head Trauma	Lumbar Disc Herniations	Evaluation of the Patient with Brain Death	Peripheral Nervous System Examination	EXAM
10.30-12.00	Approach to Pediatric Intensive Care Patients	Cervical Disc Herniations	Spinal Infections	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Examination of a Patient with Lumbar and Cervical Disc Herniation	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	

TIP535 Ophthalmology (4 credits)

The purpose of this course is to teach medical students sufficient ophthalmology to enable recognition of common eye complaints and their etiology as well as recognition of less common but life or sight threatening emergencies presenting as eye findings. This course provides knowledge about various eye diseases, systemic diseases and their relationships with eye, basic medical and surgical treatments and ocular emergencies. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Demonstrate the ability to initially assess and manage common ophthalmic problems,
- Demonstrate the ability to rapidly recognize and initiate management of ocular emergencies and trauma,
- Describe a systematic, prioritized approach diagnosing common ophthalmic presentations,
- Distinguish those ophthalmic conditions requiring immediate referral to an ophthalmologist,
- Take a focused history and perform a physical examination for patients presenting with common ocular symptoms,
- Develop a working differential diagnosis and management plan,
- Develop plans for investigations and interpret these investigations,
- Explain the risks and benefits of investigations and treatments,
- Demonstrate competency in basic diagnostic and procedural skills relevant to ophthalmic conditions.

Course Content:

Ophthalmology
Eye Anatomy, Orbital and Periocular Anatomy, Examination Methods, Ophthalmological Instruments, Eyelid Diseases, Eyelid Malpositions and Ptosis, Refraction Errors, Conjunctival Diseases, Corneal Diseases, Keratitis, Tear Film, Lens Diseases, Cataract, Glaucoma Diagnostic Methods and Treatment, Uveal Diseases and Behçet's Disease, Intraocular Tumors, Strabismus and Nystagmus, Pupil and Cranial Nerve Paralysis, Eye Traumas, Chemical Eye Injuries, Glaucoma, Optic Nerve Diseases, Retinal Vascular Diseases, Orbital Diseases, Orbital Tumors, Tear System Diseases, Red Eye, Preventable Eye Diseases of Childhood, Premature Retinopathy, Optic Nerve Diseases, Papilledema and Optic Atrophy, Retinal Detachment, Macular Diseases, Light Reflex

V. GRADE OPHTHALMOLOGY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Red Eye	Clinical Practice	Acute and Chronic Vision Loss	Approach to Trauma
10.30-12.00	Basic Information on Eye Diseases	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice

V. GRADE OPHTHALMOLOGY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Common Neuroophthalmological Conditions	Conjunctivitis Diagnosis and Treatment	Glaucoma	Clinical Practice	Clinical Practice
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Independent Study	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Independent Study	Independent Study	Clinical Practice	Independent Study

V. GRADE OPHTHALMOLOGY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Strabismus	Premature Retinopathy	Clinical Practice	Independent Study	EXAM
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	

TIP536 Orthopedics and Traumatology (4 credits)

The purpose of this course is to teach students the clinical symptoms of congenital diseases often encountered in Türkiye, infections of the bones and joints, diseases of the spine and general approach to fractures of the bones. Students have to recognize the diagnostic tests and basic principles of diagnosis and treatments of emergency patients with orthopedic problems. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Apply main principles of approach to urgent patient and its stages and able to apply it,
- Apply triangular bandage and to fixate of lower extremities,
- Obtain patient history and to do physical examination,
- Inform students about taking patient history and performing physical examination and let the medical students to internalize the information by practicing it and be able to apply the information appropriately,
- Describe the diagnosis of fractures and dislocations and general approach to their treatment,
- Describe the causes, formation, clinical course and diagnosis of congenital and acquired diseases of musculoskeletal system,
- Describe the preventive approaches in congenital and acquired diseases of musculoskeletal system,
- Describe the particular approach to diseases which are problematic for public health in Turkey because of their frequency or economic burden,
- Have some general information about surgical approach to certain orthopedics and traumatology conditions.

Course Content:

Orthopedics and Traumatology
Approach to Orthopedic Emergencies and Trauma Patients, Radiological Evaluation, Upper extremity Fractures and Examination, Lower extremity Fractures and Examination, Pelvis and Acetabulum Fractures, Spine Fractures and Examination, Child Fractures, Plaster Splint Applications, Dislocations, Introduction of Orthopedic Implants, Hand Diseases, Neuroorthopedics, Pediatric Orthopedics, Spinal Deformities, Musculoskeletal Tumors, Nuclear Medicine in Musculoskeletal System Diseases, Amputations and Diabetic Foot, Musculoskeletal System Infections, Degenerative Waist Diseases, Foot Diseases, Sports Injuries, Reconstructive Joint Surgery

IV. GRADE ORTHOPEDICS PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Restriction of Movement in Joints	Spinal Cord Injuries Rehabilitation	Fibromyalgia	Tenosynovitis	Osteoporosis
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Independent Study

IV. GRADE ORTHOPEDICS PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Torticollis	Osteoarthritis	Joint Pain and Swelling	Arthritis	Rheumatoid Arthritis
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Spondyloarthritis
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	Independent Study

IV. GRADE ORTHOPEDICS PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Ankylosing Spondylitis	Stroke Rehabilitation	Clinical Practice	Independent Study	EXAM
10.30-12.00	Clinical Practice	Disc Herniations	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	

TIP511 Pediatric Surgery (2 credits)

The purpose of this course is to integrate pediatric surgical knowledge, attitudes and skills already acquired in the first 4 years of medical school into the clinical discipline, follow-up of healthy children and practice current diagnostic and therapeutic approaches with guidance in common medical and surgical disease situations. Preoperative preparation, surgery and postoperative care (history, physical examination, laboratory, differential diagnosis) in children with pediatric surgical problems are discussed in overview. The principles of general surgery are discussed with emphasis on physiology of the pediatric population, especially in the neonatal period as a different model from those of adults. The necessity of a unique approach is underlined. Children with common congenital anomalies, surgical pathologies, especially those with associated anomalies requiring surgery are discussed focusing on treatment modalities. Students are encouraged to observe hospitalized children and outpatients, learn disease prevention, early diagnosis and treatment strategies and provide support for the patient and the family. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

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At the end of this course the students will be able to:

- Integrate pediatric surgical knowledge, attitudes and skills already acquired in the first 4 years of medical school into the clinical discipline,
- Follow-up of healthy children and practice current diagnostic and therapeutic approaches with guidance in common medical and surgical disease situations,
- Describe preoperative preparation, surgery and postoperative care (history, physical examination, laboratory, differential diagnosis) in children with pediatric surgical problems are discussed in overview,
- Describe the principles of general surgery with emphasis on physiology of the pediatric population, especially in the neonatal period as a different model from those of adults,
- Describe children with common congenital anomalies, surgical pathologies, especially those with associated anomalies requiring surgery focusing on treatment modalities.

Course Content:

Pediatric Surgery
Preoperative and Postoperative Approach in Pediatric Surgery, Approach to the Patient in the Outpatient Clinic, Inguinal Region Pathologies, Gastrointestinal System Anomalies in Newborns, Surgical Diseases that Cause Respiratory Distress in Newborns, Acute Abdomen and Trauma in Children, Esophageal Foreign Body and Burns, Constipation in Children, Anorectal Malformations, Hirschprung's Disease, Surgical Pediatric Endocrine Pathologies, Childhood Tumors, Anterior Abdominal Wall Anomalies, Urinary System Anomalies in Children, Sexual Development Disorders, Imaging and Radiographs in Pediatric Surgery and Diagnosis

V. GRADE PEDIATRIC SURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Thorax and Diaphragm Surgical Pathologies-In Newborns Congenital Stomach, Small and Large Intestine Obstructions	Liver, Bile Duct Diseases and Hydatid Cyst	Inguinoscrotal Regional Diseases	EXAM
10.30-12.00	Fluid, Electrolyte, Acid-Base Balance and Disorders-Foreign Body Related Problems	Abdominal Pain, Acute Appendicitis and Differential Diagnosis	Necrotizing Enterocolitis-Constipation and Congenital Megacolon-Anorectal Diseases and Malformations	External Genital Organ Diseases-Urinary Tract Infections and Approach Principles-Urinary System Malformations	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Caustic Esophageal Burns-Congenital Esophagus Atresia and Tracheoesophageal Fistula Gastroesophageal Reflux, Achalasia and Esophagus Stenosis	Trauma-Gastrointestinal Bleeding	Cervical Masses-Abdominal Masses, Causes and Approach Principles	Antenatal Hydronephrosis-Anterior Abdominal Wall Defects (Gastroschisis, Omphalocele)	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	

TIP512 Physical Medicine and Rehabilitation (5 credits)

The purpose of this course is to acquire knowledge about physical medicine and rehabilitation. Students submit case reports and attend clinic in services. In a clinical setting, students treat patients and work with experienced clinicians who provide mentoring and consultation for case reviews, physical therapy techniques, approach to a patient with head and spinal injury, connective tissue and rheumatic diseases, pain neurophysiology, electrodiagnosis, walking aids and other orthotic devices. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Describe physical therapy techniques,
- Define approach to a patient with head and spinal injury, connective tissue and rheumatic diseases, pain neurophysiology, electrodiagnosis, walking aids and other orthotic devices.
- Describe critically ill from the diagnosis of the illness to the organization of the necessary treatment together and grasping the importance of this process,
- Develop basic knowledge and skills about concept of rehabilitation, concept of quality of life, neurologic and orthopedic deficiencies and physical examination,
- Describe diagnosis and treatment of musculoskeletal pain and rheumatic diseases,
- Define the methods of electrotherapy and massage.

Course Content:

Physical Medicine and Rehabilitation
Anamnesis and Physical Examination, Physical Therapy Agents, Stroke and Rehabilitation, Cerebral Palsy and its Rehabilitation, Spinal Cord Injuries and Rehabilitation, Osteoarthritis; Osteoporosis, Seronegative Arthritis and its Rehabilitation, Rheumatoid Arthritis and Rehabilitation, Low Back Pain; Neck Pain; Shoulder Pain, Soft Tissue Rheumatisms, Orthosis and Prosthesis, Clinical Application, Case Discussion

V. GRADE PHYSICAL THERAPY AND REHABILITATION PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Chemotherapy Side Effects	Spinal Cord Injuries and Rehabilitation	Seronegative Arthritis and Rehabilitation	Entrapment Neuropathies
10.30-12.00	Anamnesis and Musculoskeletal Examination	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Waist and Neck Pain	Rheumatoid Arthritis and Rehabilitation	Upper Extremity Painful Syndromes	Exercises	Soft Tissue Rheumatism
15.00-16.00	Clinical Practice	Independent Study	Independent Study	Clinical Practice	Independent Study

V. GRADE PHYSICAL THERAPY AND REHABILITATION PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Physical Therapy Agents / Orthosis Prosthesis	Osteoporosis	Lower Extremity Painful Syndromes	Independent Study	EXAM
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Stroke and Rehabilitation	Cerebral Palsy and Rehabilitation	Immobilization and its Effects	INTERNSHIP END WRITTEN EXAM	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Independent Study	

TIP513 Plastic and Reconstructive Surgery (2 credits)

The purpose of this course is to gain ability to identify and examine common problems of plastic surgery with emphasis on: basic techniques and principles of plastic surgery (i.e. obtaining a fine line scar, closure of skin wounds, skin grafting, skin flaps, Z-plasty, reconstructive ladder); maxillofacial injuries (i.e. initial management, soft tissue injuries, facial fractures); congenital anomalies and pediatric plastic surgery (i.e. cleft lip and palate, congenital melanocytic nevi, vascular anomalies). *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Analyzing problems, understanding decision making and problem solving processes by integrating knowledge related with plastic 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.

Course Content:

Plastic and Reconstructive Surgery
Introduction to Plastic Surgery, Scope of Plastic Surgery, Wound Healing, Basic Repair Methods in Plastic Surgery, Craniofacial Anomalies, Congenital Cleft Lip, Congenital Cleft Palate, Benign Tumors of the Skin, Facial Trauma and its Treatment, Burns, Vascular Tumors and Anomalies, Surgical Treatment of Skin Tumors, Dressing Methods and Suture Techniques, Hand Surgery

IV. GRADE PLASTIC AND RECONSTRUCTIVE SURGERY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Burns	Wound Care with Dressing Applications	Approach to a Patient with Trauma in the Head and Neck Region	EXAM
10.30-12.00	Wound Healing and Wound Management	Simple Sutures	Hand Injuries	Amputation, Amputee Proper Transportation of Parts	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Diagnosis-Treatment Practices	Diagnosis and Treatment of Soft Tissue Injuries and Facial Fractures	Diagnosis-Treatment Practices	Cleft Lip and Palate and Others Congenital Anomalies	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Independent Study	

TIP537 Psychiatry (4 credits)

The purpose of this course is to expose students to patients with mental illness and to prepare them to provide psychiatric care at a basic level. By the end of the rotation, students should be proficient at taking a psychiatric history and doing a mental status exam. They should also be able to formulate a biopsychosocial assessment, differential diagnosis, treatment plan, and referral to specialist and asking consultation. The clerkship places an emphasis on learning interviewing skills, team collaboration, and respect for psychiatric patients and their disorders. A special emphasis is given on psychiatric emergencies and concept of forensic psychiatry. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Describe mental disorders and the "normality" of mental status.
- Taking a psychiatric history and doing a mental status exam and formulate a biopsychosocial assessment, differential diagnosis, and treatment plan,
- Define the necessary knowledge and skills to diagnose, perform differential diagnosis, examine and treat psychiatric disorders in adult population,
- Define the psychological characteristics of children and adolescents and prevalent psychiatric disorders, and to plan appropriate approaches to these problems also to make referral to specialist and asking consultation,
- Describe the psychological tests and diagnostic batteries,
- Define and plan psychiatric treatments methods and approaches.

Course Content:

Psychiatry
Psychiatric Evaluation of Children and Adolescents, Mood Disorders, Pervasive Developmental Disorders, Mental Disorders seen during Adolescence, Emergencies and Substance use Disorders in Child Psychiatry, Psychopharmacology in Children and Adolescents, Disruptive Behavior Disorders, Attention Deficit and Hyperactivity Disorder, Obsessive Compulsive Disorder and Conversion Disorder, Autistic Spectrum Disorders, Anxiety Disorders, Post-Traumatic Stress Disorder, Somatoform Disorders, Psychiatric Symptoms, History Taking and Mental Status Examination, Classification Systems in Psychiatry, Psychiatric Semiology with Visual Education Tools, Psychotic Disorders, Clinic of Schizophrenia, Anxiety Disorders with Visual Education Tools Obsessive Compulsive Disorder, Clinical Evaluation of Anxiety Disorders, Somatoform Disorders, Psychosomatic Disorders, Clinical Evaluation of Somatoform and Psychosomatic Disorders with Visual Education Tools, Mood Disorders: Major Depressive Disorder, Mood Disorders: Bipolar Disorders, Clinical Evaluation of Mood Disorders with Visual Education Tools, Emergency Psychiatry, Eating Disorder, Emergency psychiatric patient assessment with visual education tools, Delirium, Dementia and Cognitive Disorders, Delirium, Dementia Patient Evaluation, Mental Trauma and Post-Traumatic Stress Disorder (PTSD) with Visual Education Tools, Sexual Dysfunction, Trauma and PTSD Patient Evaluation with Visual Education Tools, Alcohol-Substance Addiction, Sleep Disorders, Psychiatry and Cinema, Psychopharmacology, Liaison Psychiatry, Forensic Psychiatry, Personality Disorders and Different Personality Traits with Examples from Movies and TV Series, Somatic Treatments, Psychotherapy Principles, Review of Psychiatric Symptoms and Differential Diagnosis in Psychiatry with Visual Education Tools

V. GRADE PSYCHIATRY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Term V-Internship Introduction	Childhood Psychiatric Diseases in Childhood: Autism, Attention Deficit Hyperactivity Disorders, Psychotic Illnesses, Mood Disorders, Anxiety Disorders, Somatic Symptom Disorders	Obsessive Compulsive Disorders	Trauma-Related Stress Disorder	Sexual Dysfunctions
10.30-12.00	Clinical Practice		Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study
15.00-16.00	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice	Independent Study

V. GRADE PSYCHIATRY PROGRAM-2TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Neurocognitive Disorders	Sleep Disorders	Alcohol and Substance use Problems	Clinical Practice	Clinical Practice
10.30-12.00	Neurocognitive Disorders	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice

V. GRADE PSYCHIATRY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Approach to the Emergency Psychiatric Patient	Current Psychiatric Diagnostic and Treatment Approaches	Clinical Practice	Independent Study	EXAM
10.30-12.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EVALUATION AND FEEDBACK
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Independent Study	

TIP515 Urology(2 credits)

The purpose of this course is to make students an integral part of the adult urology service, including both inpatient and outpatient activities, under the direction of the physicians. They will be expected to take part in diagnostic and therapeutic endeavors under staff direction. This is a survey clerkship of urology that exposes a student to general and specialty-based urology (genitourinary oncology, female neurourology, pediatric urology, endourology, and minimally invasive surgery, infertility, erectile dysfunction and pediatric urology). During the clerkship, students learn the evaluation, diagnosis, and treatment of the common diseases of the genitourinary tract. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the students will be able to:

- Define diagnosis, and management of the common diseases of the genitourinary tract and surgical interventions related with them.
- Describe urological diseases and perform urologic examination,
- Describe and evaluate urological symptoms and signs, to plan diagnostic laboratory and radiologic investigations,
- Explain the basic treatment algorithms,
- Define the urologic emergencies and basic treatment approaches.

Course Content:

Urology
Urinary System Semiology and Symptomatology, Urological Patient Examination, Diagnostic Methods of Urinary System Diseases, Kidney Transplantation, Urinary Obstruction and Stasis, Benign Prostatic Hyperplasia, Bladder, Renal Pelvis and Ureter Tumors, Prostate Tumors, Vesicourethral Reflux, Undescended Testicle, Specific Infections of the Urinary System, Nonspecific Infections of the Urinary System, Testicular, Penile and Scrotum Tumors, Devices used in Minimally Invasive Surgery, Imaging in Hydronephrosis, Kidney Tumors, Urological Emergencies, Male Infertility, Semen Analysis, Urinary System Traumas, Rectal Examination, Neurogenic Bladder and Incontinence, Urodynamic Tests, Adrenal Tumors, TNM Classification, Imaging in Urogenital Tumors, Upper urinary System Anomalies, Lower urinary System Anomalies, Imaging in Urinary System Anomalies, Nuclear Medicine in Urogenital System Diseases, Sexually Transmitted Infections, Urinary System Stone Disease, Intrascrotal Masses, Erectile Dysfunction, Peyronie's Disease and Ejaculation Disorders

V. GRADE UROLOGY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Dysuria, Enuresis, Hematuria	Undescended Testicle	Colic Pains, Pollakiuria/Nocturia	Benign Prostatic Hypertrophy
10.30-12.00	Anuria-Oliguria	Urine Retention, Impotence	Mass in the Groin / Scrotum	Urethral Discharge	The Kidney Cystic Diseases and Anomalies
12.20-13.00	**Lunch Break**				
13.00-15.00	Sexual Function Problems Infertility (Male)	Clinical Practice	Clinical Practice	Urinary Incontinence	Kidney Tumors
15.00-16.00	Independent Study	Independent Study	Clinical Practice	Clinical Practice	Independent Study

V. GRADE UROLOGY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Sexually Transmitted Infections and Sexual Dysfunctions	Hydrocele , Hypospadias Epispadias	Testicular Tumor, Testicular Torsion	Varicocele	EXAM
10.30-12.00	Phimosis and Paraphimosis, Genital Infections	Bladder Cancer, Obstructive Uropathy , Prostate Cancer	Urinary System Stone Disease and Infections	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Genitourinary System Trauma	Clinical Practice	Clinical Practice	Independent Study	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Independent Study	Clinical Practice	Clinical Practice	Independent Study	

TIP541 Cardiology (3 credits)

The purpose of this course is to gain information on the cardiology and related skills of cardiology clinics. This rotation aims to improve student's understanding of the essentials of basic clinical cardiology and cardiovascular conditions such as acute coronary syndromes, heart failures, valvular heart disease, cardiomyopathy, arrhythmias, hypertension, dyslipidemia and peripheral vascular diseases. Students will also be exposed to a wide-range of non-invasive and invasive cardiac tests, and procedures in the evaluation and management of patients with known or suspected cardiovascular diseases. *Prerequisites: TIP401, TIP406, TIP407, TIP408, TIP421, TIP422, TIP423, TIP424, TIP425 and TIP426.*

At the end of this course the student will be able to:

- Gain the necessary clinical skills in general cardiology practice
- Develop the psycho-social and communication skills and competencies that are required to communicate with, and treat a wide diversity of patients in acute, outpatient and institutional settings.
- Develop the ability to research medical literature and scientific resources for information that affects the patient's condition, treatment and outcomes and the ability to evaluate and apply scientifically valid information to maximize the outcome of the patient.
- Conduct a cardiology history
- Conduct a cardiovascular physical examination
- Assess patients with coronary artery disease, valvular heart disease, congenital heart disease, hypertension, cardiac arrhythmias, and congestive heart failure
- Demonstrate proficiency in the following: recording the electrocardiogram, venipuncture, intravenous therapy
- Demonstrate skill in medical record keeping by recording the case histories of inpatients and writing progress notes at an appropriate frequency.
- Explain the diagnosis and treatment of cardiovascular diseases.
- To develop skills in verbal presentation by presenting cases at ward rounds, in the clinic and on occasion at formal teaching conferences.

Course Content:

Cardiology
History and Physical Examination in Heart Diseases, Invasive Diagnostic Methods, Non-Invasive Diagnostic Methods, Heart Auscultation, Electrocardiography (Normal EKG and Pathologies in ECG), Heart Failure, Acute Pulmonary Edema, Stable Angina Pectoris, Acute Coronary Syndromes, Acute Myocardial Infarction, Electrocardiography (Ischemic Heart Disease) Infective Endocarditis, Cardiomyopathies, Supraventricular Arrhythmias, Pulmonary Embolism, Pulmonary Hypertension, Cor Pulmonale, Electrocardiography (Arrhythmias), Drugs in heart diseases, Ventricular Arrhythmias, Electrocardiography (General Comment), Syncope, Sudden Death and Resuscitation, Conduction Disorders and Pacemakers, Pericardial Diseases, Heart Tumors and Congenital Heart Diseases in Adults, Medical Treatment of Arrhythmias, Hypertension Clinical Approach: Hyperlipidemias, Holter, Effort Test, Echocardiography, Angiography, Systemic Diseases, Pregnancy and Heart, Treatment of Acute and Chronic Arterial Occlusions, Nuclear Medicine in Cardiovascular System Diseases, Cardiac Stress Tests, Case Examples and General Review

V. GRADE CARDIOLOGY PROGRAM-1TH WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Internship Introduction and Orientation	Cardiovascular System Examination	Hypertension	Secondary Hypertension	Pulmonary Edema
10.30-12.00	Symptomatology in Diseases of the Circulatory System	Electrocardiography and Evaluation	Essential Hypertension	Pulmonary Hypertension	Clinical Practice
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Clinical Practice	Clinical Practice

V. GRADE CARDIOLOGY PROGRAM-2ND WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Vascular Malformations	Cardiovascular System Examination	Endocarditis	Coronary Artery Disease	Edema
10.30-12.00	Myocarditis / Cardiomyopathy	Arrhythmias	Heart Valve Diseases	Heart Failure	Chest Pain
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice	Clinical Practice
15.00-16.00	Clinical Practice	Independent Study	Independent Study	Clinical Practice	Clinical Practice

V. GRADE CARDIOLOGY PROGRAM-3RD WEEK					
HOURS	**MONDAY**	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
09.00-10.30	Angina Pectoris	Hypotension	Clinical Practice	Clinical Practice	EXAM
10.30-12.00	Palpitation	Cyanosis	Clinical Practice	Clinical Practice	EXAM
12.20-13.00	**Lunch Break**				
13.00-15.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	END OF INTERNSHIP EXAM QUESTION FEEDBACK
15.00-16.00	Clinical Practice	Clinical Practice	Independent Study	Independent Study	

Curriculum Phase VI

Code	Course Title	*C	**A	ECTS
TIP601	Internal Medicine	Yes	Yes	**10**
TIP602	General Surgery	Yes	Yes	**5**
TIP603	Gynecology and Obstetrics	Yes	Yes	**5**
TIP604	Pediatrics	Yes	Yes	**10**
TIP605	Public Health	Yes	Yes	**5**
TIP606	Emergency Medicine	Yes	Yes	**10**
TIP607	Elective Rotation	Yes	Yes	**5**
TIP608	Psychiatry	Yes	Yes	**5**
TIP609	Family Medicine	Yes	Yes	**5**
			Total:	**60**
			Grand Total:	**360**

OKAN UNIVERSITY FACULTY OF MEDICINE 6TH GRADE INTERNSHIP PROGRAM

INTERNSHIP	Duration/Weeks	TIP	MED
INTERNAL MEDICINE I	4	01.07.2024 – 01.08.2024	01.10.2024 – 01.11.2024
PEDIATRIC HEALTH AND DİSEASES I	4	01.08.2024 – 01.09.2024	01.07.2024 – 01.08.2024
EMERGENCY MEDICINE I	4	01.09.2024 – 01.10.2024	01.08.2024 – 01.09.2024
PSYCHIATRY	4	01.10.2024 – 01.11.2024	01.09.2024 – 01.10.2024
PUBLIC HEALTH	4	01.02.2025 – 01.03.2025	01.11.2024 – 01.12.2024
INTERNAL MEDICINE II	4	01.12.2024 – 01.01.2025	01.05.2025 – 01.06.2025
FAMILY MEDICINE	4	01.11.2024 – 01.12.2024	01.02.2025 – 01.03.2025
PEDIATRIC HEALTH AND DISEASES II	4	01.01.2025 – 01.02.2025	01.12.2024 – 01.01.2025
EMERGENCY MEDICINE II	4	01.03.2025 – 01.04.2025	01.01.2025 – 01.02.2025
GENERAL SURGERY	4	01.04.2025 – 01.05.2025	01.03.2025 – 01.04.2025
GYNECOLOGY AND OBSTETRICS	4	01.05.2025 – 01.06.2025	01.04.2025 – 01.05.2025
ELECTIVE ROTATION	4	01.06.2025 – 01.07.2025	01.06.2025 – 01.07.2025

TIP601 Internal Medicine (10 credits)

The purpose of this course is to develop skills relating with the internal medicine and learn the essential clinical knowledge necessary to evaluate and care for adult patients. During the clerkship, the students will acquire and be able to demonstrate the clinical skills necessary to independently evaluate (with appropriate supervision) and care for adult patients with common medical problems. Student has to learn to prepare and maintain in an accepted format the medical record of the evaluation and care of inpatients and outpatients, including written or electronic entry of a complete history and physical examination, progress notes, procedure notes, clinic visit notes, physician's orders, and prescriptions for medications. Become familiar with routine procedures commonly required for the evaluation and care of patients, including venipuncture, bladder catheterization, arterial puncture, insertion of peripheral intravenous catheters, fecal occult blood tests, electrocardiograms, insertion of nasogastric tubes. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

Internal Medicine
Intern doctors working in the wards work as junior assistants under the supervision of the senior doctor. They come to the ward at 08:00 in the morning, examine the patients they are responsible for, tour the ward with the senior assistant, and then continue to follow up their patients. Intern doctors have the responsibility of introducing themselves to the relatives of the patients they follow and providing information about the disease in a language they can understand. Intern doctors present their own patients during faculty rounds. Intern doctors are obliged to attend the training meetings of the department, unless the patients they follow in the ward have urgent problems. Intern doctors cannot leave the service without delivering the patients they are monitoring to the evening duty round. Deliveries are made collectively with the on-call assistant team; intern doctors cannot make on-call deliveries among themselves. Intern doctors write the epicrisis of the patients they will discharge on the computer and have it signed by the service senior assistant and the specialist in charge of the service. Intern doctors attend joint training meetings of the Department of Internal Medicine. The working hours of intern doctors working in the polyclinic are 08:00-16:00. Duty: At least three intern doctors are on duty every day in the Department of Internal Medicine. Intern doctors on duty work under the responsibility of the on-duty assistant of the service they are on duty during, and the senior assistant on duty may change their duty positions when deemed necessary. There is no compensation for not coming to duty or coming late without a valid reason, and it requires repeating the internship. On-duty interns are responsible for attending shifts together with assistants. Duty deliveries start at 16:00-17:00 on weekdays and at 09:00 on weekends. The intern doctor on duty is obliged to inform the service assistant on duty in cases where he/she must leave the duty station. Targeted Generic Competencies: Ability to take history Physical examination Recording history and examination findings Ability to present patients at visit Patient Monitoring Ability to write epicrisis / report Ability to approach the problem Ability to arrive at pre-diagnosis/diagnoses Requesting and evaluating laboratory data in a conscious order Treatment planning, evaluation and monitoring of the benefit of treatment Ability to reach, present and interpret the article Targeted Skills (Clinical Follow-up and Interventional Procedures): Patient follow-up in the outpatient clinic (at least 20 patients) Participation in internal medicine theoretical training program (2 times a week) Participation in service rounds (every day) Presenting patients to the lecturer (at least 3 patients)

Arrangement and follow-up of the patient's treatment
Inserting a urinary catheter (at least 2)
Paracentesis (at least 2)
Inserting a nasogastric tube (at least 2)
Arterial blood gas collection (2 pieces)
Venous blood collection (at least 10)
Blood sugar monitoring (at least 5 patients)
Taking blood cultures (at least 2)
Learning emergency interventions
The following internal medicine departments must be rotated into: Hematology, Oncology, Endocrinology, Nephrology, Cardiology, Rheumatology, Palliative Medicine, Geriatrics, Infectious Diseases, Emergency Medicine, Gastroenterology, Immunology, Allergology and Chest Diseases

TIP602 General Surgery (5 credits)

The purpose of this course is to learn basic knowledge of surgery and develop skills necessary for sufficient surgical clerkship. Students learn common surgical problems and understand the indications for essential diagnostic studies used to evaluate patients with surgical problems. They understand and possibly perform various basic procedures, such as: venipuncture, placement of intravenous catheter, insertion of urethral (Foley) catheter, insertion of nasogastric tube, removal of surgical drains, closure of surgical incisions, removal of suture/staples, dressing changes. Students understand how to and possibly apply specific protocol in the operating room (scrubbing, gowning, gloving, prepping and draping), interpret common laboratory tests, common radiologic tests. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

General Surgery
During working hours, work takes place between 07:30 in the morning and 17:00 in the evening. Except for the intern physicians who are on duty and work in the outpatient clinic, those who work in the ward and operating room. Intern doctors working in the service work as junior assistants under the supervision of the senior doctor. Intern doctors have the responsibility to introduce themselves to the relatives of the patients they follow and to give information about the disease in a language they can understand. Intern doctors present their own patients during faculty member visits. One intern student stay on duty in the ward every night. Duty deliveries start at 17:00 on weekdays and at 09:00 on weekends. Intern physician; Knows basic surgical principles and can perform basic practical interventions, Evaluating patients and taking anamnesis in the General Surgery outpatient clinic, Learns the approach to this group of patients by accompanying the procedures of making requests, arranging their treatment, or hospitalizing them, when necessary, Learns patient follow-up by recording anamnesis, examination and all kinds of test results in hospitalized patients, Observes the patient's preoperative preparation and undertakes postoperative care (mobilization, postural drainage, etc.), It accompanies wound care and dressings, By actively participating in his patient's surgery, he learns how to enter the surgery sterile and the rules of sterilization. Accompanying the patient during the recovery phase after the operations and observing how the surgery note is written, Be responsible for the file order and reach the level of being able to organize patient epicrises, Attends all visits to the clinic and accompanies consultant physicians, Accompanying simple medical interventions, acquire skills such as suturing and throwing, Acquires and personally practices skills such as nasogastric insertion, urinary catheter insertion, blood gas taking, hematocrit monitoring, Observes procedures such as inserting a central catheter. Targeted Skills (Clinical Follow-up and Interventional Procedures): Interns are expected to carry out procedures such as inserting a nasogastric tube, inserting a foley sonde, dressing, primary suturing, monitoring the intake and discharge, and regulating fluid electrolyte, which are the basic practical applications of general surgery. It is expected that basic skills such as patient follow-up and emergency diagnosis of acute abdomen will be fulfilled. Each intern is expected to submit a surgical article at the end of the month.

TIP604 Pediatric Health and Diseases (10 credits)

The purpose of this course is to provide the medical student with the knowledge and clinical experience necessary to develop basic skills in the evaluation and management of health and disease in infants, children and adolescents. The core pediatric clerkship is an introduction to the care of children and emphasizes those aspects of pediatrics which should be understood and mastered by all physicians, regardless of ultimate career goals. The clerkship will address issues unique to childhood and adolescence by focusing on human developmental biology, and by emphasizing the impact of family, community and society on child health and well-being. It is within this framework of normal growth and development that the student will learn the mechanism of disease processes and develop the ability to formulate appropriate diagnostic and therapeutic plans. Additionally, the clerkship focuses on the impact of disease and its treatment on the developing human, and emphasizes growth and development, principles of health supervision and recognition of common health problems. The role of the pediatrician in prevention of disease and injury and the importance of collaboration between the pediatrician and other health professionals is stressed. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

Pediatric Health and Diseases
Here, intern doctors work in 3 different branches for three weeks each. Working hours are from 8:30 to 17:00. In the emergency rotation, a watch is kept every 3 days. Morning meetings: It is held every morning between 08:30 and 09:00 in the mezzanine pediatric meeting room. All interns must attend. Training Program: There are 15 training hours. These are held every Monday and Thursday between 13:00 and 14:00 in the mezzanine pediatric meeting room. Service: Each intern doctor follows at least 3 patients. The intern doctor is as responsible as his 1st year assistant for the entire follow-up of his patients (taking appointments, giving orders with seniors, presenting epicrisis, in visits and as a case, taking their blood, if possible, and insertion of vascular access). Intern doctors should definitely attend the visit of the responsible teacher of general pediatrics, and if the teacher requests the visit of the minor teacher of the patient they follow. Emergency Service and Duty: During working hours (08:00-17:00), 2 of the intern doctors work in the emergency room, 1 in the infant service, and 1 in the emergency door. During the duty hours (17:00-08:30), 2 interns stay in the emergency room, 1 intern is on duty in the neonatal ward and 1 intern in the general pediatric service. It is mandatory to attend the transfer visits. When the intern doctors on duty request the senior physician of the night, they can be shifted to one of the busy services (intensive care-hematology- oncology, newborn). General outpatient clinic: An intern doctor works in one of the 2 general outpatient clinic rooms. The intern doctor who follows a case presentation (the case chosen by the polyclinic physician) every two weeks (on Fridays) is obliged to present it. Other departments and minor branches: A study program is prepared according to the request of the department teacher. Theoretical and Practical Training Program: Routine monitoring of childhood, Approach to childhood gastroenterohepatology diseases, Healthy child monitoring, Principles of nutrition in childhood, Vaccination in children, Upper respiratory tract infections, Central nervous system infections, Childhood tuberculosis, Approach to acute renal failure, Approach and treatments to urinary system infections (UTI), Approach and treatment of childhood hypertension, Approach and treatment of childhood hypertension, Diagnosis and approach to childhood arthritis, Liquid electrolyte therapy, Diagnosis and treatment of nutritional and hemolytic anemias, Bleeding disorders, Transfusion, Recognition and treatment of respiratory failure, Identification and treatment of shock,

Approach to chronic lung diseases,
Asthma diagnosis and treatment,
Approach to the wheezing child,
Approach and treatment of allergic emergencies (treatment of acute asthma, urticaria-angioedema, anaphylaxis),
Approach to immune deficiencies,
Approach to a child with diarrhea,
Approach to a child with fever,
Childhood parasitosis,
Childhood rash diseases,
Approach to lymphadenopathies in childhood,
General signs and symptoms in childhood cancers, tips on differential diagnosis and approach,
Acute change of consciousness,
Acute seizure,
Acute walking difficulty,
Febrile convulsion,
Approach to short stature,
Diagnosis and emergency treatment of type 1 diabetes,
Diagnosis and treatment of vitamin D deficiency,
Hypothyroidism,
Obesity and insulin resistance,
Newborn care in the delivery room,
Newborn follow-up and prematurity problems,
Diagnosis and treatment approaches in childhood heart diseases
Targeted Clinical Competencies:
intern physicians;
They should learn that the evaluations of each age group can be achieved by comparisons to be made within the same age group,
Should be able to evaluate the baby born at the birth in a primary health care institution and refer him to the appropriate health institution, when necessary,
Should be able to recognize the characteristics of the newborn baby and educate the family about nutrition,
Should know the vaccination needs of the 0-18 age group, be able to monitor infants and children from birth at appropriate intervals, and be able to administer vaccines,
Should be able to follow up healthy babies regularly after birth, should be able to recognize nutritional anemia that may develop during infancy, and be able to take preventive approaches,
To be able to recognize communicable diseases, to know the methods of combating communicable diseases,
Patients who are interested in poisoning should know the emergency approach, be able to perform applications such as gastric lavage and administering activated charcoal, and be able to contact the poison control center,
Should have knowledge about common convulsions in 0-18 age group patients, should be able to distinguish especially febrile convulsions from others and be able to stop the convulsions in patients presenting with convulsions,
Should have knowledge about congenital heart diseases and diagnosis and be able to direct them to the appropriate center,
To have knowledge about acute asthma attack and drug allergies and to apply emergency treatment approach,
Should have knowledge about malnutrition problems and digestive disorders that become evident in infancy and be able to make a diagnostic approach,
Recognize and suspect malignant diseases and direct these patients to appropriate centers.
Must know the fluid-electrolyte balance and acid-base balance characteristics and be able to make an emergency approach after the imbalance.
Targeted Skills (Clinical Follow-up and Interventional Procedures):
Being able to communicate sensitively with the family,
Getting a history,
To be able to perform physical examination of all systems,
Patient monitoring, epicrisis/report writing,
Bloodletting and vascular access,
Nasogastric tube applications,
Inserting a urinary catheter,
Learning and practicing intramuscular injection sites,
Learning emergency interventions

TIP603 Gynecology and Obstetrics (5 credits)

The purpose of this course is to provide the clinical experiences and knowledge to familiarize you with the core competencies of obstetrical and gynecologic care. The obstetrics and gynecology are not only the physician for the reproductive needs of patients but often the sole provider of primary and preventive care needs of women. During this clerkship students acquire knowledge and skills to manage the health care needs of women.
Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.

Course Content:

Gynecology and Obstetrics

Intern doctors working in the wards work as junior assistants under the supervision of the senior doctor.
They come to the service / delivery room at 08.00 in the morning at the latest and examine the patients they are responsible for, and make rounds in the service / delivery room with the senior assistant.
Intern doctors are obliged to know the diagnosis, treatment and problems of patients other than those for whom they are responsible.
Intern doctors have the responsibility of introducing themselves to the relatives of the patients they follow and providing information about the disease in a language they can understand.
Intern doctors present their own patients during faculty rounds.
Intern doctors are obliged to attend the training meetings of the department, unless the patients they follow in the ward have urgent problems.
Intern doctors cannot leave the service without delivering the patients they are monitoring to the evening duty round.
Deliveries are made collectively with the on-call assistant team; intern doctors cannot make on-call deliveries among themselves.
Intern doctors write the epicrisis of the patients they will discharge on the computer and have it signed by the service senior assistant and the faculty member in charge of the service.
Intern doctors attend the training meetings of the Department of Gynecology and Obstetrics.
Shifts:
At least two intern doctors are on duty every day in the Department of Gynecology and Obstetrics. Shifts are held in the maternity ward and gynecology-oncology wards, with an intern doctor in each ward.
Intern doctors on duty work under the responsibility of the senior assistant on duty, and the senior assistant on duty can make changes to the shift positions when deemed necessary. There is no compensation for not coming to duty or coming late without a valid reason, and it requires repeating the internship. On-duty interns with assistants
Responsible for attending duty handovers. Duty deliveries start at 16.00 on weekdays and at 09.00 on weekends.
Approach to the obstetric patient:
Counseling during pregnancy preparation, Pregnancy follow-up, Hypertensive diseases of pregnancy, Diabetic diseases of pregnancy,
Prenatal and postpartum hemorrhages of pregnancy, Chronic medical diseases of pregnancy
Approach to the gynecological patient:
Family planning, Gynecological infections, General gynecological diseases,
Menstrual and hormonal irregularities, Menopause, urinary incontinence
Approach to the infertile patient:
Evaluation of the infertile patient
Approach to the oncological patient: Precancerous lesions, Vulva-vagen cancers, Cervical cancers, Endometrial cancers, Ovarian cancers,
Gestational trophoblastic diseases Targeted Generic Competencies:
Responsive communication with the patient
Ability to take history
Physical examination
Recording history and examination findings
Ability to present patients at visit
Patient Monitoring
Ability to write epicrisis / report
Ability to approach the problem
Ability to recognize problems, sort them according to their importance, and record them
Ability to arrive at pre-diagnosis/diagnoses
Requesting and evaluating laboratory data in a conscious order
Treatment planning, evaluation and monitoring of the benefit of treatment Targeted Clinical Competencies:
Intern Physician;
Knows how to provide appropriate consultancy services to a patient who is preparing for pregnancy,

Knows what to do for pre-pregnancy treatment of chronic diseases,
Knows the necessary tests and vaccinations before pregnancy,
Can follow up pregnant,
Knows the trimesters of pregnancy,
Knows the examination methods and screening tests that should be done in each trimester,
Knows how to determine gestational age,
Knows how to evaluate fetal well-being,
Knows abnormal situations and situations that require the patient to be referred to the hospital,
Knows the symptoms of miscarriage,
Knows the signs of premature birth,
Knows the signs of birth,
Knows the basics of postnatal care,
Knows the principles of follow-up of multiple pregnancies,
Knows the diagnosis and treatment methods of infectious diseases during and after pregnancy,
Knows the approach to excessive nausea and vomiting of pregnancy,
Knows how to monitor the pregnant woman's blood pressure, edema and proteinuria,
Knows the classification of hypertensive diseases of pregnancy,
Knows the difference between mild and severe preeclampsia,
Knows the criteria for hospital referral in hypertensive diseases of pregnancy,
Knows the principles of antihypertensive treatment during pregnancy,
Knows the emergency approach to eclamptic crises,
Knows the diagnostic criteria of diabetic diseases of pregnancy,
Knows the classification of diabetic diseases of pregnancy,
Knows the possible complications of diabetic diseases of pregnancy,
Knows the follow-up methods and birth timing in diabetic diseases of pregnancy,
Knows placenta previa diagnosis methods,
Knows ablation placenta diagnostic methods,
Knows the approach and emergency treatment methods for postpartum atony, genital injury bleeding,
Knows the approach to heart and circulatory system diseases during pregnancy,
Knows the approach to respiratory system diseases during pregnancy,
Knows the approach to Thyroid diseases during pregnancy,
Knows the approach to gastrointestinal system diseases during pregnancy,
Knows the approach to Genitourinary system diseases during pregnancy,
Knows the use and contraindications of hormonal contraceptives,
Knows the use of barrier methods
Knows the use of intrauterine devices,
Knows the diagnosis and treatment methods of lower genital tract infections,
Knows the diagnosis and treatment methods of pelvic inflammatory diseases,
Knows the diagnosis and treatment methods of sexually transmitted diseases,
Knows the approach to vulvo-vaginal masses,
Knows the principles of diagnosis, follow-up and treatment of myoma uteri,
Knows the principles of diagnosis, follow-up and treatment of ovarian cysts,
Knows the principles of endometriosis diagnosis, follow-up and treatment,
Knows ectopic pregnancy diagnosis and treatment principles,
Knows chronic pelvic pain diagnosis, follow-up and treatment principles,
Knows the naming of menstrual irregularities,
Knows the causes of menstrual irregularities,
Knows the treatment principles of menstrual irregularities,
Knows the diagnosis and treatment principles of polycystic ovary disease,
Knows hirsutismus treatment methods,
Knows the symptoms and treatment methods of menopause,
Knows the tests to be done in menopause,
Knows the diagnosis and treatment methods of osteoporosis,
Knows the causes of urinary incontinence,
Knows the classification of urinary incontinence,
Knows urinary incontinence diagnostic tests,
Knows the principles of urinary incontinence treatment,
Knows the causes of infertility,
Knows the tests that should be requested from the infertile patient,
Knows the approach to male infertility,
Knows risky patient groups for precancerous lesions of vulva-vagen-cervix,
Knows screening and diagnosis methods of precancerous lesions,

Knows the follow-up methods of precancerous lesions,
Knows risky patient groups for vulva-vagen cancers,
Knows the diagnosis methods of vulva-vagen cancer,
Knows risky patient groups for cervical cancers,
Knows cervical cancer diagnosis methods,
Knows risky patient groups for endometrial cancers,
Knows endometrial cancer diagnosis methods,
Knows risky patient groups for ovarian cancers,
Knows ovarian cancer diagnosis methods,
Knows the diagnosis and follow-up methods of Gestational Trophoblastic Diseases, Targeted Skills (Clinical Follow-up and Interventional Procedures):
Performing pelvic examination in gynecological patients (at least 20 patients)
Performing breast examination in gynecological patients (at least 20 patients)
Performing pelvic examination in obstetric patient during labor (at least 20 patients)
Speculum insertion (at least 20 patients)
Smear removal (at least 20 patients)
Accompanying IUD insertion (at least 5 patients)
Vaginal culture and wet preparation (at least 20 patients)
Non-stress test application and evaluation (at least 20 patients)
Contraction stress test application and evaluation (at least 20 patients)
Assisting the labor (at least 5 patients)
Delivery of the placenta (at least 5 patients)
Assisting episiotomy repair (at least 5 patients)
Assisting cesarean delivery (at least 5 patients)
Assistance in gynecological operations (at least 5 patients)

TIP605 Public Health (5 credits)

The purpose of this course is to teach the interns health care system and organization in Turkey, how evaluate the health status and identify the health problems of the community, how to design and implement plans for controlling these problems, how to promote the health status of the community and the general principles of preventive, curative and rehabilitative health services. The students will be introduced to the principles and methods of epidemiologic investigation, including describing the patterns of health and illness in populations, quantitative measures to determine risk, association and procedures for standardization of rates, application of basic principles and methods in the design and conduct of epidemiologic studies. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

Public Health
Public Health Application: Health group chairmanship and tuberculosis dispensary tour and observation, Health Center and home visit, Tuzla Dam and Treatment Plant tour and observation, Tuzla Waste Incineration Plant and solid waste storage area tour and observation, Visiting and observing food production workplaces, Social service institutions Shipyard tour and observation. Theoretical courses, group studies, seminar presentations, research planning and application courses are held in our department classrooms. Family medicine and community health center trainings in Tuzla Training and Research Region within the framework of the protocol signed between our Rectorate and the Governor's Office, Occupational medicine training in factories located in Istanbul/Tuzla districts that accept our students, Education about school health services is carried out in the Primary School with the permissions obtained from the Provincial Directorate of National Education. The theoretical training program for Term VI students in the Department of Public Health is between 08:30 in the morning and 16:30 in the evening. Other primary care practices are carried out in accordance with the working hours of the internship places. As part of the Public Health rotation, students gain competence in hygiene regulations and infection prevention. The training includes surveillance of infectious diseases, vaccination programs, and strategies to maintain hygiene in clinical and community settings. 1) Theoretical Lessons: The first three days of the Rural Medicine Internship are devoted to theoretical lessons with the aim of reviewing the basic issues of public health. These topics are; Health Systems: Approaches to the definition, classification and evaluation of health systems, country examples, Concepts in Public Health: Discussing concepts such as health, social health, health services in terms of public health, Health Services in Turkey: Development of health services in the Republic period, law no. 224, post-1980 period health transformation policies, Management of Primary Health Care: Basic principles in the management of primary health care services, duties of the staff, correspondence, forms used in the community health center (CHC) and family health center (FHC), belongings, pregnancy and baby follow-up, vaccination services, Health services in extraordinary situations: Management and organization of health services in extraordinary situations, protective services for the environment, Occupational Health Services: Concepts, criteria, services, problems and situation assessment in occupational health, School Health: Definition, content, principles of school health services, introduction of school health internship 2) Community Health Center and Family Health Center Internships: During the period starting from the fourth day of the internship and lasting until the sixth week, physician candidates actively take part in Tuzla Community Health Center and the Family Health units affiliated with this institution. 3) School Health Unit Internship: It lasts for four days, between Mondays and Thursdays, in groups at the School Health Unit established in the Primary and Secondary Schools. Within the scope of the internship, school entrance and intermittent control examinations, school environmental health inspections are carried out for students from school health services, and students are given health education on the protection and development of health. 4) Workplace Medicine Internship: Intern doctors are sent in groups to certain industrial organizations for four days, between Monday and Thursday, to enable them to participate in occupational medicine practices. 5) Group Studies:

During the internship, group studies are carried out with students on various topics. Group activities determined and structured for each group are as follows:
Personal rights and responsibilities of healthcare personnel: Personal rights of healthcare personnel, law no. 657, registry and disciplinary matters,
The situation of maternal and child health in Turkey: Maternal and child health criteria, problems and solutions, evaluation of Turkey and the region,
Epidemic investigation: Diagnosis of epidemic and stages of epidemic investigation, epidemic graph drawing, control of infectious diseases
6) Institutional Trips:
Physician candidates visit health-related institutions every Friday with the instructor in charge of the internship. Responsible people in these institutions are interviewed and the relevant institution's function, legal responsibilities, administrative structure, formation of managers, etc. are discussed. An investigation is being carried out regarding this matter.
The institutions that can be visited are as follows:
Istanbul Provincial Directorate of Food, Agriculture and Livestock,
Istanbul Public Health Laboratory,
Istanbul Medical Chamber
7) Seminar Preparation and Presentation:
During the internship, students are divided into seminar groups and prepare and present seminars on issues related to public health. One research assistant advisor is appointed for each seminar group.
8) Research:
Interns plan and conduct an epidemiological study under the supervision of a faculty/research assistant during the last 2 weeks of the internship. Research topics are chosen among public health problems that are common in primary care. The research report is submitted to the Department by the interns in the last week of the internship.
Targeted General Competencies (Theoretical and Practical):
Intern physician;
Understands the organization and functioning of healthcare in Turkey,
Knows the health problems in Turkey,
Knows under which headings the health system in a country should be examined and has an idea about the health systems of other countries,
Knows the duties and areas of responsibility of other health-related organizations in Turkey,
Knows the rights, responsibilities and authorities arising from the legislation,
Adopts a preventive medicine approach,
Knows the duties of primary health care institutions,
Can do the work that a physician working in the primary care should do,
Evaluate the health status of a region, calculate and interpret public health indicators,
Understand the scientific approach in public health research and plan and apply simple research,
Plan, supervise and evaluate the results of primary care services in a region,
Gain knowledge about the management of health personnel and comprehend the principles of management.
Target Skills:
History Taking, Treatment Planning, Record Keeping and Report Preparation:
Accurate record keeping, notifications Ability to prepare forensic reports Pregnant examination Child and newborn examination Forensic death examination
Laboratory Tests and Other Related Procedures:
Ability to take water and food samples Ability to disinfect water Ability to determine the chlorine level in water Ability to make anthropometric measurements
Evaluation of Information:
Ability to evaluate frequently requested laboratory results (normal and pathological interpretation), plan further examinations, if necessary, develop a differential diagnosis approach,
Ability to monitor growth and development in children (percentile curves, Tanner rating), Ability to diagnose and grade malnutrition and dehydration and plan treatment,
Ability to accurately determine the cause of death, Being able to identify and guide high-risk pregnancies,
The Public Health internship also incorporates occupational medicine. Students are introduced to occupational diseases, ergonomics, workplace safety, and preventive approaches to work-related health risks. Legal aspects of occupational health are also discussed.
Preventive Medicine Practices:
Being able to evaluate the person together with his/her environment before he/she gets sick, Being able to recognize priority health problems and risk groups,
Providing fertility regulation consultancy,
Ability to apply contraception methods correctly and monitor users, Monitoring pregnancy, Providing counseling on teratogenic effects during pregnancy, Providing postnatal care, Ability to select, apply and guide appropriate screening

methods for early diagnosis,
To be able to practice breastfeeding in newborn babies, to be able to monitor healthy children,
Ability to regulate nutrition according to age, immunization, Protection from accidents,
Ability to combat infectious diseases in society, protection with medication,
To raise awareness of breast and cervix screening in society, to monitor and guide health during menopause,
Protection from occupational diseases,
Monitoring and prevention of chronic diseases,
Providing healthy life information to the society (personal hygiene, physical activity, sexual health, drugs, cigarettes, alcohol, nutrition, etc.),
Providing health education appropriate to risk groups in the society,
Prevention of infections in health institutions and public areas, Management of epidemics and disasters,
Ability to detect health-related problems in any society using epidemiological methods and put forward solutions,
Communication Skills:
Ability to communicate effectively with the work team,
Ability to communicate effectively with patients and their relatives,
Being able to take into consideration the patient's social and economic situation at every stage, Obtaining accurate and sufficient information from the patient and their relatives,
Being able to provide adequate and understandable information about the disease to the patient and his/her relatives,
Providing accurate and adequate information to the patient and/or patient's relatives about possible interventions/treatment options, obtaining approval for treatment,
Being able to pay attention to communication in situations that require a special approach, such as cancer and disability, Ability to communicate effectively with colleagues and instructors,
Accessing Information Skills:
Being an observer, questioner and researcher,
Ability to increase medical knowledge/make efforts to acquire new information,
Ability to write articles,
Ability to use and interpret information sources effectively/distinguish evidence-based information,
The student identifies major occupational exposures (noise, vibration, heat, chemicals, and ionizing radiation) within the scope of occupational health and safety; explains the epidemiology of occupational diseases; applies the principles of pre-employment and periodic examinations as well as workplace risk assessment

TIP606 Emergency Medicine (10 credits)

The purpose of this course is to gain essential emergency medicine knowledge. Students should integrate the knowledge they have obtained in medical school so far to focus on evaluation and treatment of acute presentations. Students describe the importance of effective communication at all levels for patient care in the emergency department, and demonstrate effective communication skills. Students appreciate the clinical challenge of managing multiple patients simultaneously, each at different stages of evaluation and treatment. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

Emergency Medicine
During the emergency medicine internship, intern physicians work during the day between 08:00-16:00 and on duty on public holidays and between 16:00-08:00 in a two-month period. Morning visits are held at 08:00 and evening visits are held at 16:00. It is mandatory to attend the turnaround visits and the lecturer visits during the day. Intern physicians in emergency medicine internship; operate on the basis of primary patient responsibility in non-critical patients. They work together with research assistants in the management and follow-up of critically ill patients. Under the supervision of the research assistant doctor and lecturer they work with here; They take responsibility in taking the patient history, performing physical examination, planning differential diagnosis, performing treatment procedures and monitoring the patient. During the internship, there is a theoretical training program specific to intern physicians, detailed below, on Thursdays of the first month. Participation in the entire program is mandatory. Intern physicians cannot leave the emergency room without permission in the areas they are responsible for. Even short breaks during the day are planned in consultation and coordination with the senior research assistant doctor. Leave and change of guard requests other than this are submitted to the written approval of the head of the department. Intern physician; General working principles of the emergency department; Knows the functioning of examination and treatment units. Performs history taking and focused physical examination in the emergency department. Prepares patient files in the emergency department and performs daily follow-up. Applies specific interventional procedures that are frequently performed in the emergency department. Knows the differences in approach to emergency patients. Performs basic and advanced cardiac life support applications. Differentiates and manages arrest rhythms and basic dysrhythmias in the emergency department. Knows the concept of triage and the principles of triage in the emergency department. Knows airway management principles, basic and advanced airway opening maneuvers and devices. Knows the basic approach and management of the polytrauma patient. Knows the principles of approach to a poisoned patient. Targeted Skills (Clinical Follow-up and Interventional Procedures): Patient presentation & file evaluation (at least 4 patients) Taking part in the cardiopulmonary resuscitation team for adult patients (at least 3 patients) Suturing (at least 5 patients) Use of bag-valve mask (at least 2 patients) Foley catheter application in male patients (at least 2 patients) Foley catheter application in female patients (at least 2 patients) Nasogastric tube application (at least 3 patients) Taking part in splint & plaster applications (at least 3 patients) ECG recording and interpretation (at least 3 patients) Arterial blood gas collection and interpretation (at least 3 patients) Dressing procedures (at least 3 patients) Applying a trauma board and neck collar (at least 2 patients)

TIP607 Elective Rotation (Internal or Surgical Medicine) (5 credits)

The purpose of this course is to offer an extra opportunity of clinical rotation desired by the student in accordance with the future career planning in medical specialties. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Elective Rotation- e.g. Radiation Oncology

The purpose of this course is to gain information about what cancer is and how it occurs, common cancers and therapies, radiation and radiobiology of the radiation, stereotactic radiotherapy and clinical applications, brachytherapy and clinical applications, conformal radiotherapy and clinical applications, IMRT and clinical applications, VMAT and clinical applications.
At the end of this course the students will be able to:

- Distinguish basic concepts about radiation oncology and basic principles in clinical practice,
- Distinguish the basic concepts of Radiation Oncology,
- Gain theoretical and practical knowledge about Radiotherapy Field.
- Distinguishes clinical features of tumor and learn preparation of treatment,
- Interpret components of radiotherapy field and all related applications.

TIP608 Psychiatry (5 credits)

The purpose of this course is to expose students to patients with mental illness and to prepare them to provide psychiatric care at a basic level. By the end of the rotation, students should be proficient at taking a psychiatric history and doing a mental status exam. They should also be able to formulate a biopsychosocial assessment, differential diagnosis, treatment plan, and referral to specialist and asking consultation. The clerkship places an emphasis on learning interviewing skills, team collaboration, and respect for psychiatric patients and their disorders. A special emphasis is given on psychiatric emergencies and concept of forensic psychiatry.
Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.

Course Content:

Psychiatry
Interns are divided into two groups as outpatient and service groups, and the groups change in the middle of the month. Thus, all interns are expected to participate in service and polyclinic studies. Working hours are 8.30-16.00. Service interns accompany the consultant assistant on a rotational basis, thus gaining information about psychiatric consultation services. Service interns are given patients when they start the service. The intern physician contributes to the follow-up and treatment processes of his patient under the supervision of the assistant physician, participates in the patients' activities during the day, and in the second week, intern physicians are expected to present their patients during faculty member visits. Polyclinic interns examine patients under the supervision of assistant physicians in the psychiatry outpatient clinic and participate in faculty member examinations. Thus, it improves the knowledge and skills of the frequently encountered outpatient group regarding the diagnosis and treatment processes. All interns keep an equal number of off-duty shifts during the internship period (16.00-08.30); thus they have the opportunity to improve their knowledge and skills about patient evaluation in emergency conditions under the supervision of an assistant physician. At the beginning of the internship, all interns are distributed to the faculty members they will work with, and each faculty member works with approximately 3-4 interns during the month. The faculty member can carry out various educational activities with his/her students during the month (such as reading articles, preparing and presenting presentations). "Communication skills in difficult situations" is practiced with the participation of all interns for 2 hours a month. Intern students attend the training meetings of the Department of Psychiatry, and practical training is provided at the bedside by the assistants and faculty members in charge of the outpatient clinic or ward in the ways mentioned above. Targeted Generic Competencies: Qualification expected at the end of the internship; To enable interns to develop their knowledge and skills regarding the diagnosis and treatment processes of common mental illnesses such as Depression or Anxiety Disorders and the diagnosis and follow-up processes of chronic mental disorders when they start their medical careers. Target Skills: Outpatient clinic work, participation in patient interviews (at least 20 patients) Service work, patient follow-up and patient presentation during visits (at least 20 patients) Patient evaluation in consultation (at least 3 patients) Participation in training meetings and health committee, Making presentations, Presenting articles, Participation in patient group meetings

TIP609 Family Medicine (5 credits)

To protect and improve individual, family and community health; The aim of this course is to meet the patient at the primary level in accordance with the principles of medical ethics, to take anamnesis, to make an examination, to plan the diagnosis and treatment, to evaluate the emergencies, to provide the necessary knowledge, skills and attitudes put referral indications. *Prerequisites: TIP501, TIP502, TIP503, TIP504, TIP505, TIP506, TIP508, TIP511, TIP512, TIP513, TIP515, TIP519, TIP535, TIP536, TIP537 and TIP541.*

Course Content:

Family Medicine
Communicates effectively with patients and their relatives and receives anamnesis for general and systems. Perform general and detailed physical and mental examinations. Pre-diagnoses based on the anamnesis and physical examination findings, selects the necessary diagnostic tests to test the preliminary diagnoses and make differential diagnosis. Describes the priorities and limitations of diagnostic tests, evaluates the results of tests. Makes a differential diagnosis by evaluating the results of anamnesis, physical examination and diagnostic tests and diagnoses at the primary level. Plan treatment at primary level in accordance with diagnosis. Perform basic interventional procedures for diagnosis and treatment (such as catheter insertion, blood collection, vascular access, injection). Explains the diagnosis and treatment approaches of diseases at primary level. Explains the mechanism of action, indications, contraindications, side effects and drug interactions of drugs used at primary level and arranges prescriptions in accordance with rational drug principles. Recognizes emergency situations, makes the first attempts to provide basic life support. Explain referral indications for further examination and treatment and appropriate referral principles under appropriate conditions. Explains epidemiology, etiology, physiopathological mechanisms and clinical features of diseases. Explains the basic ethical issues encountered in clinical practice. Reach information according to learning needs, critically evaluate the information. Explain the dead examination and reporting processes During the Family Medicine internship, students encounter practical aspects of occupational medicine in primary care, including recognition and management of work-related health problems.

Related Medical Topics	Explanation
Psychosomatic Diseases, Psychotherapy, Medical Psychology	It is covered in Psychiatry courses.
Health Economics. Health System, Public Health and Hygiene, Environmental Health, Preventive Health Care Work (Business) Medical Social Medicine	It is covered in Public Health courses.
Clinical Pathology	It is covered in pathology courses.
Geriatrics	It is covered in Internal Medicine courses.
Emergency Medicine	It is covered in Internal Medicine and Surgery courses.
Forensic Psychiatry	It is covered in Forensic Medicine courses.
Toxicology and Clinical Pharmacology	It is covered in pharmacology courses.
Palliative Medicine	It is covered in Internal Medicine courses.
Clinical Biochemistry	It is covered in Biochemistry courses.
Clinical Biostatistics, Medical Research Methods	It is covered in Public Health courses.
Allergy and Immunology, Endocrinology, Hematology, Rheumatology, Gastroenterology, Nephrology, Medical Oncology, Radiation Oncology	It is covered in internal medicine courses.
Medical Terminology	It is covered in Anatomy, Histology and Embryology courses.
Human Genetics	It is covered in Medical Genetics courses.
Pain Medicine (Algology)	It is covered in Anesthesia and Reanimation courses.
Andrology	It is covered in urology courses.

ELECTIVE

KYP001Career and Life Planning (1 credits)

The purpose of this course is to ensure that students specify their expectations for university education, spend this process in a productive way and improve themselves. Make them get knowledge about occupational life and prepare for it during their education since the first years of university.

At the end of this course the students will be able to:

- Lead the students to discover their own potentials,
- Raise the self-consciousness of students; assist them to discover their own strengths and weaknesses during the journey from being "high school student" to being "university student" and "adult",
- Make students realize the university life dynamics,
- Make them investigate and think about their department, make them begin specifying their career options,
- Inform them about actions to be taken before graduation to be ready for business world,
- Acquire a personal image and communication skills,
- Introducing the concepts of time and stress management

ATA101 1 History of Turkish Revolution (2 credits) (See General Education)
This course covers the analysis of the causes and the consequences of the First World War; the searches for independence of the Turkish nation in Anatolia and salvation of the Turkish lands that were occupied after the Armistice of Montrose; the development and activities of Nationalist militias and the societies against them; the evaluation of the congress administrations that were formed after 19 May,1 919 in terms of their form and content; the structure of the Grand National Assembly and the process through which it gained legitimacy; the leadership of Turkish War of Independence; Treaty of Lausanne, and the Establishment of the Republic.

ATA102 History of Turkish Revolution (2 credits) (See General Education) Prerequisite: ATA111
Lausanne Peace Treaty resulting success that is being converted to a modern state via announcement of Republic, and being gained to this state a modern, convenient to development identity, and placing Atatürk's Thought System to the memories precisely by the following revolutions of this process, so that our young people are made conscious and durable against to the threats to their personalities and to their countries.

ENG111 English I (3 credits)
The course offers a balanced mixed of language input, skills work and oral tasks. It enriches students' topic-based vocabulary and develops their awareness of lexical patterns. In this, course students have functional language lessons, which are useful to them in their daily lives. Besides Basic English. Medical Faculty and Dentistry Faculty students are given basic medical terminology supported by medical texts.

ENG112 English II (3 credits)
In this course, students will be able to develop their language skills. They will be able to practice all four skills. The course is a follow up to ING 111, so students will continue to learn and enhance their existing knowledge on reading and writing techniques, various grammar points and participate in listening and speaking activities. Besides Basic English, Medical Faculty and Dentistry Faculty students are given basic medical terminology supported by medical texts.

CORE201 Academic Reading and Writing I (3 credits)
This course is designed to help students develop specific skills required for academic reading, including skimming, scanning, intensive reading, topic sentences and prediction, as well as various writing skills. Students will be given guided practice in writing skills and tasks reflecting different types of academic texts. Students will also be taught vocabulary- building strategies and given guidance in undertaking basic research. Besides Academic Reading and Writing lessons. Medical Faculty and Dentistry Faculty students are given basic medical terminology supported by medical texts.

CORE202 Academic Reading and Writing II (3 credits)
This course is a follow-up to CORE201. It focuses on the development of specific skills required for academic reading and writing. Students will be able to improve their writing skills through guided and free practice, planning, coherence and cohesive devices. In addition, students will learn various vocabulary-building techniques and be given guidance in undertaking research, recording and acknowledging sources. Besides Academic Reading and Writing lessons, Medical Faculty and Dentistry Faculty students are given basic medical terminology supported by medical texts.. *Prerequisites: CORE201*

TRD101 Türk Dili I (2 kredi)
The aim of this course is to study the features and grammar rules of Turkish language, to demonstrate writing and speaking abilities through samples, to improve students' understanding (reading and listening) and expression (oral and written expression) abilities, to provide familiarity with the Turkish literature as well as world literature and culture.

At the end of this course the students will be able to:

- Remembering running rules and features of Turkish,
- Repeating notation and pronunciation features of Turkish,
- Students are expected to adapt notation and pronunciation features of Turkish to their abilities,
- Students are expected to identify basic concepts of languages,
- Analysis reading ability and restructuring,
- Analysis listening ability and restructuring,
- Analysis following ability and restructuring,
- Analysis understanding ability and restructuring,
- Analysis verbal lecture ability and restructuring,
- Analysis written expression ability and restructuring,
- Remembering historical development of Turkish language,
- Discussing current problems of Turkish Language and estimating future problems,
- Using perfect and effective Turkish,
- Critical and creative reading and thinking through Turkish written texts,
- Realizing and questioning without prejudice through Turkish written texts.

TRD102 2 Turkish Language (2 credits) (See General Education)
Course explains the features and functioning rules of Turkish language; shows writing and speaking features through samples. Course improves students' understanding (listening/ reading/ watching/ understanding) and expression (oral ve written expression) abilities. Course provides to contact to students with the Turkish literature and World Literature and Culture. The aim of this course is to continue to study the features and grammar rules of Turkish language, to demonstrate writing and speaking abilities through samples, to improve students' understanding (reading and listening) and expression (oral and written expression) abilities, to provide further familiarity with the Turkish literature as well as world literature and culture. *Prerequisite: TRD101*

At the end of this course the students will be able to:

- Remembering running rules and features of Turkish,
- Repeating running rules and features of Turkish,
- Repeating notation and pronunciation features of Turkish,
- Students are expected to adapt notation and pronunciation features of Turkish to their abilities,
- Students are expected to identify basic concepts of languages,
- Analysis reading and listening ability and restructuring,
- Analysis following and understanding ability and restructuring,
- Analysis verbal lecture and written expression ability and restructuring,
- Remembering historical development of Turkish language,
- Discussing current problems of Turkish Language and estimating future problems,
- Using perfect and effective Turkish,
- Critical and creative reading and thinking through Turkish written texts,
- Realizing and questioning without prejudice through Turkish written texts.

TRD105 Turkish For Foreigners I (2 credits)

The aim of the course is to explain to students with examples the characteristic and rules of Turkish. Provides examples for the written and spoken characteristic of the language. Develops students' receptive (listening/ reading/ watching/ comprehension) and expressive (written and spoken expression) skills.

At the end of this course the students will be able to:

- To identify everyday expressions dealing with simple and concrete everyday needs, in clear, slow and repeated speech,
- To define speech which is very slow and carefully articulated with long pauses for me to get the meaning,
- To identify questions and instructions,
- To repeat name numbers, prices and times,
- To analyze the general idea of simple informational texts and short simple descriptions, especially if they contain pictures which help to explain the text,
- To define very short, simple texts, putting together familiar names, words and basic phrases, by for example rereading parts of the text,
- To describe short, simple written instructions, especially if they contain pictures,
- To recognize familiar names, words and very simple phrases on simple notices in the most common everyday situations,
- To write simple notes to friends,
- To describe where he/she lives,
- To complete forms with personal details,
- To write simple isolated phrases and sentences,
- To write short simple postcard.

TRD106 Turkish For Foreigners II (2 credits)

The aim of the course is to explain to students with examples the characteristic and rules of Turkish. Provides examples for the written and spoken characteristic of the language. Develops students' receptive (listening/ reading/ watching/ comprehension) and expressive (written and spoken expression) skills.

At the end of this course the students will be able to:

- To explain enough to manage simple, routine exchanges without too much effort,
- To identify the topic of discussion around self in general which is conducted slowly and clearly,
- To handle simple business in shops, post offices or banks,
- To identify the main point of TV news items reporting events, accidents, etc, where the visual material supports the commentary,
- To define short, simple messages, eg. on postcards,
- To explain short, simple texts containing the most common words, including some shared international words,
- To define texts that written in everyday language,
- To identify specific information in simple written material such as letters, brochures and short newspaper articles describing events,
- To use short letters and messages with the help of a dictionary,
- To analyze short, basic descriptions of events and activities,
- To summarize short, simple notes and messages relating to matters of everyday life,
- To describe plans and arrangements,
- To identify what he/she likes or dislikes about something.