

YEOJU TECHNICAL INSTITUTE IN TASHKENT



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Vice-rector on academic affairs

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PROGRAMME SPECIFICATION

B.Sc. GENERAL MEDICINE

Tashkent 2021

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INTRODUCTION

In the first two years the curriculum principally covers theoretical courses (Biochemistry, Biology, Physics, Anatomy, Histology, Physiology etc.). The third year of studies comprises preclinical courses (Pathophysiology, Pathology) and prepares students for the study of clinical courses (Surgery, Internal Medicine). In the fourth and fifth years, students undertake internships at individual clinics and departments. The last year of studies is devoted to pre-graduation practical training, during which students work at clinics and departments under the supervision of experienced doctors. In the course of their studies, students also complete nine weeks of practical training (during vacation periods) during which they gradually acquaint themselves with the operation of health care facilities and practical procedures. The studies are completed with state examinations in five subjects. The entire programme is conducted in Uzbek, Russian and English.

The program consists of 360 credits distributed in 6 years.

LEARNING OBJECTIVES AND OUTCOMES

The MD Program Learning Objectives are structured to align with the Accreditation Council for Graduate Medical Education competency areas. The learning objectives of the program are such that by the time of graduation, students are expected to:

I. Medical Knowledge

1. Relate normal structure, development and function, to the genetic, biochemical, physiological, neurological, immunological, and microbiological processes among the major organ systems of the body in maintaining homeostasis.
2. Assess the role of normal human biological, cognitive, psychological, and behavioral development across the life span as determinants of health and illness.
3. Determine the impact of genetics, nutrition, epidemiology, and environmental influences on individual health and on disease and on informing treatment in local and global communities.
4. Relate principles of pathology, physiology, microbiology, and immunology to the clinical evaluation and diagnosis of common diseases and disorders.
5. Integrate the scientific foundations and advances of medicine with clinical reasoning skills in the prevention, treatment, and management of diseases, including pharmacologic and other interventions that can prevent, cure or alter the course of diseases and disorders

II. Patient Care

1. Demonstrate the ability to elicit an appropriate medical history and physical examination and synthesize the information into a differential diagnosis
2. Propose a suitable management plan, including the selection of laboratory and radiologic tests, interpretation of their results, and implementation of interventions, to diagnose and treat common clinical conditions
3. Perform the medical and surgical procedures considered essential for entering a residency program
4. Demonstrate the ability to counsel and educate patients, their families, and other caregivers about treating and preventing disease
5. Demonstrate the ability to transition patient care from one provider to the next using appropriate verbal handoff and written documentation

III. Interpersonal and Communication Skills

1. Demonstrate culturally sensitive, patient-centered communication about medical, emotional, social and spiritual matters to patients, their families, and other caregivers.
2. Demonstrate shared decision-making with patients, their families, and other caregivers from all backgrounds
3. Demonstrate the ability to present a coherent oral and written summary of patients' clinical conditions
4. Demonstrate the ability to collaborate with other health care professionals and teams

IV. Practice-Based Learning and Improvement

1. Appraise the medical literature and electronic resources for validity, applicability, limitations and standard of care for the provision of care to individual patients and populations
2. Use evidence-based strategies to teach colleagues, patients and the community- at-large about patient care in multiple clinical settings
3. Appraise one's growth and development as a lifelong learner through reflective practice of personal and professional strengths and challenges
4. Assess one's personal well-being and its contribution to the health and wellness of their professional community and patient population

V. Systems-Based Practice

1. Apply principles of cost-effective medicine to the analysis of the organization, financing, and delivery of health care
2. Appraise mechanisms to systematically enhance quality patient care and safety
3. Analyze the essential importance of physician advocacy and health care policy in improving patient outcomes

4. Discuss the elements of the health care system that lead to health outcome disparities and those that can mitigate such disparities
5. Describe the ways in which culture and belief systems impact perceptions of and responses to health and illness
6. Use appropriate healthcare resources for optimization of patient care

VI. Professionalism

1. Demonstrate understanding of ethical principles operating in the healthcare environment and the medical profession
2. Apply ethical principles to professional activities including the care of patients and interaction with peers
3. Demonstrate leadership, reliability, and integrity in all professional activities
4. Demonstrate awareness of how one's beliefs, values, and conflicts of interest may impact patient care
5. Demonstrate compassion and care towards others regardless of differences in beliefs, identity, race, and culture

PROGRAM CONTENT

As a prerequisite for completing the undergraduate program, students must attend and pass educational modules equivalent to a total workload of 360 credits. A fulltime semester encompasses educational elements, corresponding to 30 credits. The program comprises compulsory, elective and internship educational modules.

CURRICULUM

No.	Modules	Semesters											
		1	2	3	4	5	6	7	8	9	10	11	12
1.	History of Uzbekistan	1,5											
2.	Anatomy	5	5	5									
3.	Clinical anatomy					5							
4.	Histology, cytology, embryology		5	5									
5.	Medical biology. General genetics	4	3										
6.	Medical chemistry	4	3										
7.	Biological chemistry			5	4								
8.	Physiology		4	5									
9.	Pathological anatomy				3	3							
10.	Pathological physiology				3	3							
11.	Microbiology, virology			5	3								
12.	Pharmacology				3	3							
13.	Latin language	4											
14.	History of medicine	1,5											
15.	Public health			2	3								
16.	Hygiene					2	3						
17.	Information technology in medicine	5											
18.	Biophysics	5											
19.	Pedagogy and psychology			3									
20.	Introduction to medicine		7										
21.	Therapy												
	<i>Propedeutics of Internal Medicine</i>				5	5							
	<i>Internal illnesses</i>						3	3	3	3	3	3	
	<i>Clinical allergology</i>												3
	<i>Occupational diseases</i>									3			
	<i>Outpatient and polyclinic therapy</i>											5	5
22.	Pediatrics												
	<i>Propedeutics of childhood diseases</i>				3	2							
	<i>Pediatrics and Neonatology</i>						3	3	3				
	<i>Outpatient and polyclinic pediatrics</i>											5	6
23.	Surgery												

	<i>General surgery</i>					4	3						
	<i>Surgical diseases</i>							3	3	3	3	4	4
	<i>Pediatric surgery</i>								3				
24.	Obstetrics and gynecology							4				5	5
25.	Anesthesiology and Reanimatology											2	
26.	Hematology						3						
27.	Dermatovenereology							2	2				
28.	Clinical laboratory diagnostics						3						
29.	Clinical pharmacology									3	3		
30.	Neurology									3	3		
31.	Neurosurgery								2				
32.	Oncology									2	3		
33.	Otorhinolaryngology. Dentistry								4	3			
34.	Ophthalmology									2	3		
35.	Psychiatry, narcology									3	2		
36.	Rehabilitation, sports medicine											3	3
37.	Forensic medicine and legal foundations of medical practice								3				2
38.	Emergency											3	2
39.	Medical genetics						3						
40.	Medical psychology						3						
41.	Medical radiology					3	3						
42.	Traumatology and Orthopedics. Pediatric traumatology and orthopedics							3	2				
43.	Urology							4					
44.	Phthisiology							4	2				
45.	Endocrinology							4					
46.	Epidemiology										3		
47.	Infectious diseases. Children's infectious diseases.									5	4		
48.	Medical practice												
	Nursing assistant		3										
	Ward nurse assistant				3								
	Family polyclinic (RMS) nurse assistant					3							
	Assistant stationary doctor								3				
	Family polyclinic (RMS) doctor assistant										3		
Total		30	30	30	30	30	30	30	30	30	30	30	30
		360											

Each semester lasts 16 academic weeks, which includes midterm and final examinations.

ASSESSMENT

Grades will be given in accordance with Yeosu Technical Institute in Tashkent's (YTIT) grading system. The following grades will be used: A+ (pass with distinction), D (pass), and F (fail).

The program consists of obligatory parts. Course examination includes a oral exam and test assignments. The oral exam may include:

- ✓ Oral survey;
- ✓ Objectively structured clinical examination (OSCE);

Grade	Average
A+	95-100
A	90-94
B+	85-89
B	80-84
C+	75-79
C	70-74
D+	65-69
D	60-64
F	0-59 Fail

Both the oral exam and the test assignments are marked with the grades. To receive the final course grade, the minimum grade D is required for both the oral exam and test assignments. The final course grade is based on all the assessed assignments. More information is given in the course instruction. In addition, any remaining assignments and supplements must be completed

and handed in at least within two weeks after the end of the course otherwise this part of the examination (all assignments included) has to be redone the following semester, provided there is space in the course.

YTIT does not accept cheating and plagiarism. Suspected incidents of cheating or plagiarism are reported to the Disciplinary Committee of the YTIT, which may issue a formal warning to the student or expel the student from the institute.

INTERNSHIP

Undergraduate Program in General Medicine includes both theory and practical experience with the purpose of supporting the student's continuous learning process and contributing to the fulfilment of the learning objectives specified for the study program. During the internship, students are faced with professionally relevant issues, just as they become familiarized with relevant job functions. Students must actively and independently seek a placement with one or more private or public clinics, and YTIT ensures that the internship settings are satisfactory. The internship is unpaid.

Purpose of internship: The program's internship will create a connection between the studied theory and the profession's practical relations. The internship

will ensure closeness to practice and the development of professional and personal competencies for independent participation in treatment. The internship assists the student in converting the studied knowledge into practical experience.

Learning objectives of internship:

Knowledge. The graduate will:

- ✓ have knowledge of the profession's theory and methods along with practice;
- ✓ be able to understand terms and methods along with reflecting upon the application;
- ✓ have experiences of participating in the solution of practical work assignments.

Skills. The graduate will:

- ✓ be able to convert the studied knowledge into practice within treatment;
- ✓ be able to assess theoretical and practical problems and draw up suggested solutions;
- ✓ be able to apply and arrange relevant theories to the solution of assignments in the workplace.

Competencies. The graduate will:

- ✓ be able to see their own professional role in relation to actual assignments;
- ✓ be able to enter into professional as well as interdepartmental cooperation.

Internship assessment.

Internal Internship examination committee will grade the Student's internship report according to established grading system. More information on examinations will be given prior to internship.

RULES REGARDING THE INTERNSHIP

Requirements for the parties involved.

The hosting company, offering the internship, will be asked to provide a contact person who must be at the student's disposal for the duration of the internship. The contact person and the student must draw up an internship agreement in collaboration, and this agreement, which must be in writing, should outline the types of tasks and assignments the student will face during his/her internship. The internship agreement must take into account not only the learning objectives of the internship stipulated in this curriculum but also the student's prior knowledge, training and qualifications. The internship agreement should afterwards be submitted for approval at YTIT. Close contact will be established between the student and one of the YTIT's appointed internship supervisors, who

will act as the student's sparring partner for the entire duration of the internship and in addition hereto the examiner on the report. A manual, describing the internship process in greater detail, is available in Educational Department of YTIT. Upon completion of the internship period, both the student and the hosting clinic will have to participate in an evaluation of the internship period. The student must complete the evaluation in order to attend the exam.

TEACHING AND WORKING METHODS

Various teaching methods will be practiced. Among these are lectures, cases, assignments, practical and theoretical exercises, laboratory work, oral presentations, homework/study assignments/, etc. The teaching may be thermalized, just as it may be divided into different courses. The purpose of the varied teaching methods is that students, by means of the selected teaching modes, acquire knowledge, skills and competencies within the program's key subject areas, and that students apply these in accordance with the program's learning objectives. Simultaneously, each semester constitutes a complete and defined learning process, which is concluded with an examination. Essential parts of the learning process are carried out in study groups.

OTHER RULES

In some cases, YTIT may be able to transfer credits and educational modules, or parts hereof, completed at other educational institutions, provided that the elements in question correspond to elements included in this curriculum. YTIT bases the decision about a possible credit transfer on an assessment of the element's content, level etc. A transferable educational element from a stay abroad will be regarded as successfully completed, if the student has passed the element in accordance with the rules and regulations in effect at the educational institution, at which the element was taken. Students are obliged to notify YTIT of any previously passed educational modules at a higher educational level, which includes educational elements from both national and foreign higher educational institutions, presumed to be transferable. YTIT handles all applications for credit transfer according to these rules.

Change of study program. A student requesting a change to another study program at the same educational institution or at another educational institution or requesting transfer to the same program at another educational institution shall apply for enrolment at the relevant program. Change of study programs are regulated by the rules that apply at the receiving educational institution. Transfer to the same study program at another educational institution can only take place after the student has passed study elements equivalent to the first year of the study

program, to which the applicant wishes to change or transfer, or to which the applicant wants to be admitted, at the receiving institution.

Exemptions from the Curriculum

Under special circumstances, YTIT is entitled to grant exemptions from certain rules stipulated in this curriculum. Students have to submit a request for exemption, which must specify and document the reasons for exemption. YTIT will subsequently process the request and notify the student of the decision once it is made.

ENTRY REQUIREMENTS

The applicants must hold one of the following educational documents:

- School / Lyceum / College Diploma or Certificate;
- IELTS or TOEFL certificate (if available).

For additional information applicants are advised to contact Admission office (www.ytit.uz, Phone: +99878 1294040, info@ytit.uz).