

Table 1: National Qualifications Framework For Higher Education In Turkey (NQF-HETR)
Level 6 (Undergraduate Education) Qualifications

Important Note: For Level 5, Level 7 and Level 8 qualifications, see:

<http://tyyc.yok.gov.tr/?pid=33>

(Level Higher Education Qualifications Framework is equivalent for TR and TRNC.)

NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR)						
6. Level (Associate's) Qualifications						
NQF-HETR LEVEL	KNOWLEDGE -Theoretical -Conceptual	SKILLS -Cognitive -Practical	COMPETENCES			
			Competence to Work Independently and Take Responsibility	Learning Competence	Communication and Social Competence	Field Specific Competence
6 BACHELOR'S EQF-LLL: 6. Level QF-EHEA: 1. Cycle	- Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resources.	-Use of advanced theoretical and practical knowledge within the field. -Interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired advanced knowledge and skills within the field.	- Conduct studies at an advanced level in the field independently. - Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field. - Planning and managing activities towards the development of subordinates in the framework of a project.	-Evaluate the knowledge and skills acquired at an advanced level in the field with a critical approach. -Determine learning needs and direct the learning. -Develop positive attitude towards lifelong learning.	- Inform people and institutions, transfer ideas and solution proposals to problems in written and orally on issues in the field. -Organize and implement project and activities for social environment with a sense of social responsibility. -Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio B1 General Level. -Use informatics and communication technologies with at least a minimum level of European Computer Driving License Advanced Level software knowledge.	- Act in accordance with social, scientific, cultural and ethic values on the stages of gathering, implementation and release of the results of data related to the field. - Possess sufficient consciousness about the issues of universality of social rights, social justice, quality, cultural values and also, environmental protection, worker's health and security.

Table 2. List of Turkey Higher Education Qualifications Framework Definitions

Has sufficient background in mathematics, science and engineering related to his own branches.	NQF-HETR 1
--	------------

Combines theoretical and applied knowledge in mathematics, science, and BIMEngineering for engineering solutions.	NQF-HETR 2
Identifies, defines, formulates and solves engineering problems, selects and applies appropriate analytical methods and modeling techniques for this purpose.	NQF-HETR 3
Analyzes a system, system component or process and designs it under realistic constraints to meet desired requirements; applies modern design methods in this direction.	NQF-HETR 4
Selects and uses modern techniques and tools necessary for engineering applications.	NQF-HETR 5
Designs experiments, conducts experiments, collects data, analyzes and interprets results.	NQF-HETR 6
Works effectively individually and in multi-disciplinary teams.	NQF-HETR 7
Accesses information and for this purpose makes resource research, uses databases and other information resources.	NQF-HETR 8
Accesses information and for this purpose makes resource research, uses databases and other information resources.	NQF-HETR 9
It is aware of the necessity of lifelong learning; follows the developments in science and technology and constantly renews itself.	NQF-HETR 10
Combines theoretical and applied knowledge in mathematics, science, and BIMEngineering for engineering solutions.	NQF-HETR 11
Identifies, defines, formulates and solves engineering problems, selects and applies appropriate analytical methods and modeling techniques for this purpose.	NQF-HETR 12
Analyzes a system, system component or process and designs it under realistic constraints to meet desired requirements; applies modern design methods in this direction.	NQF-HETR 13
Selects and uses modern techniques and tools necessary for engineering applications.	NQF-HETR 14
Works effectively individually and in multi-disciplinary teams.	NQF-HETR 15
He/she uses information and communication technologies together with computer software with at least the European Computer License Advanced Level required by his/her field.	NQF-HETR 16
Communicates effectively, verbally and in writing; uses a foreign language at least at the European Language Portfolio B1 General Level	NQF-HETR 17
Communicates using technical drawing.	NQF-HETR 18
Accesses information and for this purpose makes resource research, uses databases and other information resources.	NQF-HETR 19
Be aware of the universal and societal impacts of engineering solutions and applications; become aware of entrepreneurship and innovation issues and have knowledge about the problems of the age.	NQF-HETR 20
Has a sense of professional and ethical responsibility.	NQF-HETR 21
Awareness of project management, workplace practices, employee health, environment and occupational safety; has an awareness of the legal consequences of engineering practices.	NQF-HETR 22
Demonstrates awareness of the universal and societal impact of engineering solutions and practices; is aware of entrepreneurship and innovation issues and has information about the problems of the age.	NQF-HETR 23

Table 3. Matrix of NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) and COURSES in Biomedical Engineering Program

NQF- HETR	NQF- HET R 1	NQF- HET R 2	NQF- HET R 3	NQF- HET R 4	NQF- HET R 5	NQF- HET R 6	NQF- HET R 7	NQF- HET R 8	NQF- HET R 9	NQF- HET R 10	NQF- HETR 11	NQF- HET R 12	NQF- HET R 13	NQF- HET R 14	NQF- HETR 15	NQF- HET R 16	NQF - HET R 17	NQF - HET R 18	NQF - HET R 19	NQF - HET R 20	NQF - HET R 21	NQF - HET R 22	NQF - HET R 23
Courses																							
BIME100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	4	4	5	4
BIME303	5	5	5	5	5	1	1	1	1	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME305	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4
BIME309	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME302	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME304	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME306	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME308	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4
BIME310	2	4	4	2	4	4	3	3	1	1	2	4		5	3		3		4	5	5		
BIME406	1	1	1	1	1	1	3	1	1	5	1	1	1	1	3	2	4	1	3	5	5	5	5
BIME401	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	5	4	1	5	1	1	1	1
BIME402	3	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
BIME404	3	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
BIME300	3	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ENGI401	3	3	3	2	4	3	4	4	4	3	3	3	2	4	4	2	2		4	2	5	5	4
ENGI402	2	4	4	4	4	4	5	4	5	4	4	4	4	4	5	2	2		5	2	3	5	4

5. Very High 4. High 3. Average 2. Low 1. Very Low

Table 4. National Qualifications Framework For Higher Education In Turkey (NQF-HETR) for Bachelor of Biomedical Engineering

IMPORTANT NOTE: Each program must enter its own level and field definitions. <http://www.tyyc.yok.gov.tr/>

No	Basic Area		Program Competencies
1	KNOWLEDGE		T1- Has sufficient background in mathematics, science and engineering related to his own branches.
2	SKILLS		A1- Combines theoretical and applied knowledge in mathematics, science, and BIMEngineering for engineering solutions.
3			A2- Identifies, defines, formulates and solves engineering problems, selects and applies appropriate analytical methods and modeling techniques for this purpose.
4			A3 Analyzes a system, system component or process and designs it under realistic constraints to meet desired requirements; applies modern design methods in this direction.
5			A4- Selects and uses modern techniques and tools necessary for engineering applications.
6			A5- Designs experiments, conducts experiments, collects data, analyzes and interprets results.
7	COMPETENCIES	Competence to Work Independently and Take Responsibility	R1- Works effectively individually and in multi-disciplinary teams.
8			R2- Accesses information and for this purpose makes resource research, uses databases and other information resources.
9		Learning Competence	L1- Accesses information and for this purpose makes resource research, uses databases and other information resources.
10			L2- It is aware of the necessity of lifelong learning; follows the developments in science and technology and constantly renews itself.
11			L3- Combines theoretical and applied knowledge in mathematics, science, and BIMEngineering for engineering solutions.
12			L4- Identifies, defines, formulates and solves engineering problems, selects and applies appropriate analytical methods and modeling techniques for this purpose.
13			L5- Analyzes a system, system component or process and designs it under realistic constraints to meet desired requirements; applies modern design methods in this direction.
14			L6- Selects and uses modern techniques and tools necessary for engineering applications.
15			L7- Works effectively individually and in multi-disciplinary teams.
16		Communication and Social Competence	C1- He/she uses information and communication technologies together with computer software with at least the European Computer License Advanced Level required by his/her field.
17			C2- Communicates effectively, verbally and in writing; uses a foreign language at least at the European Language Portfolio B1 General Level
18			C3- Communicates using technical drawing.
19			C4- Accesses information and for this purpose makes resource research, uses databases and other information resources.
20			C5- Be aware of the universal and societal impacts of engineering solutions and applications; become aware of entrepreneurship and innovation issues and have knowledge about the problems of the age.
21			P1- Has a sense of professional and ethical responsibility.

[illegible]

