



T.C.
GAZİ ÜNİVERSİTESİ
REPUBLIC OF TURKEY GAZİ UNIVERSITY

Diploma

ALIYA KUANDYKKYZY AMANZHOL

Fen Bilimleri Enstitüsü

having satisfactorily completed
all requirements of the Program of

Kimya

Chemistry

Programının bütün gerekliliklerini
başarıyla yerine getirerek

in the Graduate School of Natural and Applied Sciences
has been awarded the degree of

Tezli Yüksek Lisans

Master of Science (With Thesis)

derecesini, tanınan tüm yetkileriyle
birlikte almaya hak kazanmıştır.

with all the rights and privileges
thereto pertaining.

03 Temmuz 2024

July 03, 2024

Prof. Dr. Uğur GÖKMEN
MÜDÜR / DIRECTOR




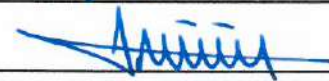
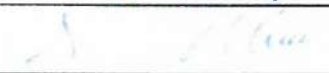
Prof. Dr. Musa YILDIZ
REKTÖR / RECTOR

ADI GEÇEN KURUM ÜLKEMİZİN
YÜKSEK ÖĞRENİM
KURUMLARINDANDIR.

11 Temmuz 2024


Oktay ERTUNÇ
Şube Müdürü

Öğrenci Numarası	22830401402
Doğum Yeri ve Yılı	KAZAKİSTAN / 08.02.2000
Kayıt Tarihi	28/09/2022
Mezuniyet Tarihi	03/07/2024
Belge Hazırlanma Tarihi	10/07/2024
Eğitim Dili	Türkçe

	İdris ÇELİK Memur	
	Prof. Dr. Gürhan İÇÖZ Müdür yardımcısı	
Daire Başkan V.	Doç.Dr. Ahmet MAVİ	

Kayıtlarımıza uygundur. Öğrenci İşleri Dairesi Başkanlığı.

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

Staat TÜRKiYE - LA TURQUIE

İşbu resmi belge/This public document/Le présent acte public/Dieses zeugnis wurde

2. Oktay ERTUNÇ tarafından imzalanmıştır./Has been signed by/a été signé par/durch ...
unterschrieben

3. İmzalayanın sıfatı Sube Müdürü'dür./Acting in the capacity of/Agissant en qualité de/Titel des
Unterzeichneten

4. MEB Yükseköğretim ve Yurt Dışı Eğitim Genel Müdürlüğü 'nin mühür/damgasını taşımaktadır-
bears the seal/stamp of-/est revêtu du sceau/timbre de-trägt Siegel/Stempel von

TASDİK / CERTIFIED / ATTESTE / BEGLAUBIGUNG:

5. Keçiören Kaymakamlığı' da/at/à/in

6. 12.07.2024 günü/the/le/Am

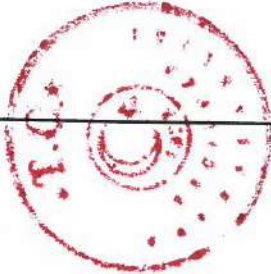
7. Şef Fatma YİĞİT tarafından/by/par/durch den/die

8. No : 41905 ile tasdik edilmiştir./No:/sous No:/unter Nr.

9. Mühür - Damga/Seal-stamp/Sceau-
timbre/Siegel-Stempel

10. İmza/Signature/Signature/Unterschrift:

.....





Gazi University

Diploma Supplement



Gazi University, 06500 Ankara, Turkey

Phone : +90 312 202 28 01

Web Site : www.gazi.edu.tr

Diploma No : 83/2024/0309

Diploma Date : 03.07.2024

The purpose of the Diploma Supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It is free from any value judgements, equivalence statements or suggestions about recognition. This Diploma Supplement model was developed by European Commission, Council of Europe and UNESCO.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1. Last name(s): AMANZHOL
1.2. First name(s): ALIYA KUANDYKKYZY
1.3. Date of birth (day/month/year): February 08, 2000
1.4. Student identification number or code (if available): 22830401402

2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1. Name of qualification and (if applicable) title conferred (in original language):
Kimya, Kimya alanında Yüksek Lisans Derecesi
2.2. Main field(s) of study for the qualification:
Chemistry
2.3. Name and status of awarding institution: Gazi Üniversitesi, Devlet Üniversitesi - Gazi University, State University
2.4. Name and status of institution (if different from 2.3) administering studies (in original language): Same as 2.3.
2.5. Language(s) of instruction/examination: Türkçe

3. INFORMATION ON THE LEVEL AND DURATION OF THE QUALIFICATION

- 3.1. Level of the qualification:
Master's Degree (M.Sc.) in Chemistry
3.2. Official duration of programme in credits and/or years:
2 years (120 ECTS), 4 Semesters, 16-18 weeks per semester
3.3. Access requirement(s):
General admission requirements stated under Info on the Institution on this website are being applied to start this programme.

4. INFORMATION ON THE PROGRAMME COMPLETED AND THE RESULTS OBTAINED

4.1. Mode of study:

Full Time

4.2. Programme learning outcomes:

Aims:

The goal of the Master program in Chemistry is to graduate expert chemists who: -have ability to access the literature and capability of interpretation of knowledge, -can evaluate the problems encountered in their field with a scientific approach and find solutions, -have theoretical and practical knowledge on modern instruments and methods in their field, -present the obtained results as written and oral formats, -have high ethical values, environmental and social awareness.

Objectives:

-To provide students the scientific skills and knowledge about their fields essential for their professional/academic success. -To train students in necessary laboratory and safety techniques. -To equip students with effective oral and written scientific communication skills. -To encourage students to pursue lifelong learning. -To foster students to commit the ethical and social responsibilities.

Graduation Requirements:

According to Gazi University Graduate Education and Examination Regulations (Official Gazette Date: 11.06.2019 Official Gazette Number: 30798): *Graduation, diploma and diploma supplement procedures are regulated according to the provisions of the relevant legislation accepted by the Senate. *Issues related to the preparation and finalization of the master's thesis are determined according to the procedures and principles approved by the Senate. *CPAs for graduation: a minimum of 2.504,00 is required in master's programs with thesis. Students who have not met the graduation requirement despite completing their total credits will fulfill this requirement by taking new course/courses. *Total credits of graduate programs are at least 120 ECTS credits for master's programs with thesis. *Master's degree program with thesis consists of at least 120 ECTS credits including Thesis Study course together with at least nine courses with not less than 60 ECTS credits including a course on scientific research techniques, research and publication ethics, Seminar course and Thesis Preparation (Amended: RG-29/9/2020-31259) * In order to graduate from Master's degree program, students should achieve at least 120 ECTS credits mentioned above successfully and defend his/her master thesis in front of jury successfully and complete master thesis.

Key Learning Programme Outcomes:

Solves the issues of his field by using scientific methods Fulfilling the leader role in the environments where solutions are sought for the problems related to his field Evaluates issues with a critical eye and encourages learning Transferring the current developments in the area and his/her own work within the national and international environments orally, visually and in written forms Having proficiency in a foreign language and establishing written and oral communication with that language Uses computer programs competent enough for his department Using communication technologies efficiently and according to the needs of the department Collects data related to the field, reviews and makes conclusions; implements and shares them by considering ethical values Develops different perspectives related to the field, plans them and assesses them within the quality framework Internalizes the knowledge gained in the field, transforms it into a skill and uses it with interdisciplinary studies On the basis of undergraduate competencies, he improves and deepens high level of knowledge with original thinking and research Grasping the inter-disciplinary interaction related to his field The ability to use the expert-level theoretical and practical knowledge acquired in his field Interpreting and forming new types of knowledge by combining the knowledge from the area and the knowledge from various other disciplines The ability to carry out a specialist study related to his area independently Developing new strategic approaches to solve the unforeseen and complex problems arising in the practical processes Coming up with solutions while taking responsibility Ability to see and develop social relationships and the norms directing these relationships with a critical look and the ability to take action to change these when necessary

4.3. Programme details, individual credits gained and grades/marks obtained:

Course Code	Course Title	Course Category	Institutional Credits	ECTS Credits	Grade
Semester I					
KIM5071	ORGANIC REACTION AND MECHANISM	Elective	3	8	CC
KIM5081	ATOMIC SPECTROSCOPY I	Elective	3	8	AA
KIM5081	THE THEORETICAL FOUNDATIONS OF ANALYTICAL CHEMISTRY I	Compulsory	3	8	CC
KIM5181	CHEMICAL TIES	Compulsory	3	8	AA
KIM5461	VOLTAOMETRIC ANALYSIS	Elective	3	6	CB
KIM5551	THE THEORETICAL FOUNDATIONS OF ANALYTICAL CHEMISTRY II	Elective	3	8	CB
İSTBE5091	PREPARATION for M. Sc. THESIS	Compulsory	0	5	AA
İSTBE5092	M.Sc. THESIS STUDY	Compulsory	0	30	AA
İSTBE5092	M.Sc. THESIS STUDY	Compulsory	0	30	AA
İSTBE5093	M.Sc. SEMINAR	Compulsory	0	5	AA
İSTBE5091	SCIENTIFIC RESEARCH METHODS AND ETHICS	Compulsory	3	6	AA

Total Credits Obtained : 21 (Institutional), 122 ECTS

Cumulative Grade Point Average (CGPA): 3,57 out of 4.00, Yüksek Onur Derecesi (High Honours Degree),

ADI GEÇEN KURUM ÜLKEMİZİN

YÜKSEK ÖĞRENİM

KURUMLARINDANDIR.

11 Temmuz 2021



Oktay ERTUNÇ
Şube Müdürü

4.4. Grading system and, if available, grade distribution table:

- (1) Students take the final exam and/or the final project in addition to the mid-term exams and/or mid-term studies. Examination calendar is published on the website of the related academic department.
- (2) The success of the students is evaluated with the methods and criteria which are stated on the course description forms that are declared at the beginning of semester.
- (3) Students are obliged to succeed in most courses. They can resit a failed elective course or select another elective instead.
- (4) Mid-term exams and/or mid-term studies and final exam and/or the final project are evaluated over 100 raw points. Letter success grades over 100 raw points are given for seminars, thesis studies, term project courses and proficiency exams. To succeed in courses, the minimum letter success grades must be CC for master's degree and CB for doctorate and integrated (post bachelor) doctorate.
- (5) A student whose raw point is under 25.00 fails the course by receiving an (FF) grade directly. The success grade of a student whose raw point is 25 or above is evaluated with the grades of which coefficients and definitions are stated below considering the general status of the class, average points and statistical range. After this evaluation, it is possible for the letter success grade equivalents of raw points that are 25.00 and above to be (FF).
- (6) Coefficients and letter success grades are evaluated as shown below:
 - a) Grade Points - Course Grades : 4.00-AA 3.50-BA 3.00-BB 2.50-CB 2.00-CC 1.50-DC 1.00-DD 0.50-FD 0.00-FF
 - b) The letter grades other than the ones in the clause "a" are:
 - 1) D: Did not attend the course 2) G: Did not attend 3) E: Incomplete (The E grades which are not corrected until after 3 weeks from the finalization of letter success grades are converted to FF)
- (7) The CumGPA is calculated via dividing the final grades of all of the courses throughout a student's study period by the total number of credits. The obtained CumGPA is shown with two decimals after the point.
- (8) While calculating both the GPAs of semesters/years and the CumGPA, the letters grades from AA to FF are based on. G and D grades are processed as FF.
- (9) All grades are included in the transcripts of students.
- (10) For graduation, the CumGPA must be 2.50/4.00 minimum for master's degree with or without thesis; 3.00/4.00 minimum for doctorate or integrated (post bachelor) doctorate programmes. Despite completing all the credits, students who cannot provide the graduation conditions take new courses to do so.
- (11) Students who do not provide the attendance conditions or other course requirements cannot take the final exam of the course and are regarded as absent (D).

4.5. Overall classification of the qualification:

Genel Not Ortalaması: 3,57/4,00 Yüksek Onur Derecesi

Cumulative Grade Point Average (CGPA): 3,57/4,00 High Honours Degree

The criteria for degree classification are: - Satisfactory 2.00 - 2.99 - Honours Degree 3.00 - 3.49 - High Honours Degree 3.50 - 4.00

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study:

Students who successfully completed the Master's Degree programme may apply to doctoral degree programmes.

5.2. Access to a regulated profession (if applicable):

The graduates with Master's Degree in Chemistry, can work in many different industrial areas such as pharmacy, food, agricultural, health, military, petroleum, environment, automotive, plastic, paint, mining and etc. and the laboratory-based jobs. Also, the graduates can work in educational activities as an academician in chemistry related departments in universities or participate in research groups as a researcher. The students that are successfully graduated from the program can apply for the doctoral degree in chemistry or chemistry related programs.

6. ADDITIONAL INFORMATION

6.1. Additional information

Preparation Status: None

6.2. Further information sources:

University web site: www.gazi.edu.tr

University's ECTS Course Catalogue: <https://obsgazi.edu.tr/oibs/bologna>

YÖK/CoHE website: <https://www.yok.gov.tr>

YÖKAK/THEQC website: <https://yokak.gov.tr>

The Turkish ENIC-NARIC website: <https://denklik.yok.gov.tr/enic-naric-tr-tanima-ofisi>

TYÇ/TQF website: <https://www.myk.gov.tr/index.php/en/turkiye-yeterlilikler-cercevesi>

TYÇ/TQF-HE website: <http://www.tyc.gov.tr>

The objective is to educate specialists who can do research in any specific issues related to chemistry resources, plan an experimental study in the laboratory, evaluate and present a report of implement experimental results and work in scientific research and development organization.

7. CERTIFICATION OF THE SUPPLEMENT

- 7.1. Date: 03.07.2023
- 7.2. Signature: Doç.Dr. Ahmet M. A. V.
- 7.3. Capacity: Deputy Head of Student Affairs of Gazi University

7.4. Official stamp or seal:



8 - INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

Structure and Degree System

The basic structure of the Turkish National Education System consists of stages of non-compulsory pre-school education; compulsory primary (elementary and middle school) and secondary (high school) education; and higher education. Primary education begins at the age of 5.5 (66 months), lasts eight years and comprises elementary and middle school education, four years each. Secondary education is also four years and divided into two categories as "General High School Education" and "Vocational and Technical High School Education". The entry into these categories is through composite scores obtained from a centralized exam for secondary schools.

Higher education system in Turkey is managed by the Council of Higher Education (CoHE, Yükseköğretim Kurulu-YÖK) which is an autonomous public body responsible for the planning, coordination, governance and supervision of higher education within the provisions set forth in the Constitution of the Turkish Republic and the Higher Education Law. Both state and non-profit foundation universities are founded by law and subjected to the Higher Education Law and to the regulations enacted in accordance with it.

Higher education in Turkey comprises all post secondary higher education programmes, consisting of short, first, second, and third cycle degrees in terms of the terminology of the European Higher Education Area (EHEA). Undergraduate level of study consists of short cycle (associate's-önisans derecesi) and first cycle (bachelor's-lisans derecesi) degrees which are awarded after successful completion of full-time two-year (120 ECTS) and four-year (240 ECTS) study programmes, respectively. The structure of first and second cycles is separate except for dentistry, pharmacy, medicine and veterinary programmes which are one-tier systems (lisans ve yüksek lisans bütünlüklü programları). The duration of these one-tier programmes is five years (300 ECTS) except for medicine which lasts six years (360 ECTS). The level of qualifications in these one-tier programmes is equivalent to that of second cycle including first cycle.

Graduate level of study consists of second cycle (master's-yüksek lisans derecesi) and third cycle (doctorate-doktora derecesi) degree programmes.

Second cycle degrees are divided into two sub-types named as master with thesis and master without thesis. The master programmes with thesis require 120 ECTS credits, which consist of courses, a seminar, and a thesis. Master programmes without thesis require 60 to 90 ECTS credits and consist of courses and a semester project. These programmes do not give direct access to third-cycle doctoral studies; for access to third-cycle programmes candidates should fulfil the thesis and other requirements of master programmes with thesis. 60 ECTS non-thesis master programmes are exceptional and exist in a few disciplines. Third cycle (doctorate with master degree) degree programmes are completed having earned 240 ECTS credits, which consist of completion of courses, a seminar, passing a scientific proficiency examination and a doctoral thesis. Third cycle (doctorate with bachelor degree) degree programmes are completed having earned 300 ECTS credits, which consist of completion of courses, a seminar, passing a scientific proficiency examination and a doctoral thesis. Proficiency in art, specialisation in medicine and in dentistry are accepted as equivalent to third cycle programmes, the last two being carried out within the faculties of medicine and dentistry, university hospitals and the training hospitals operated by the Ministry of Health.

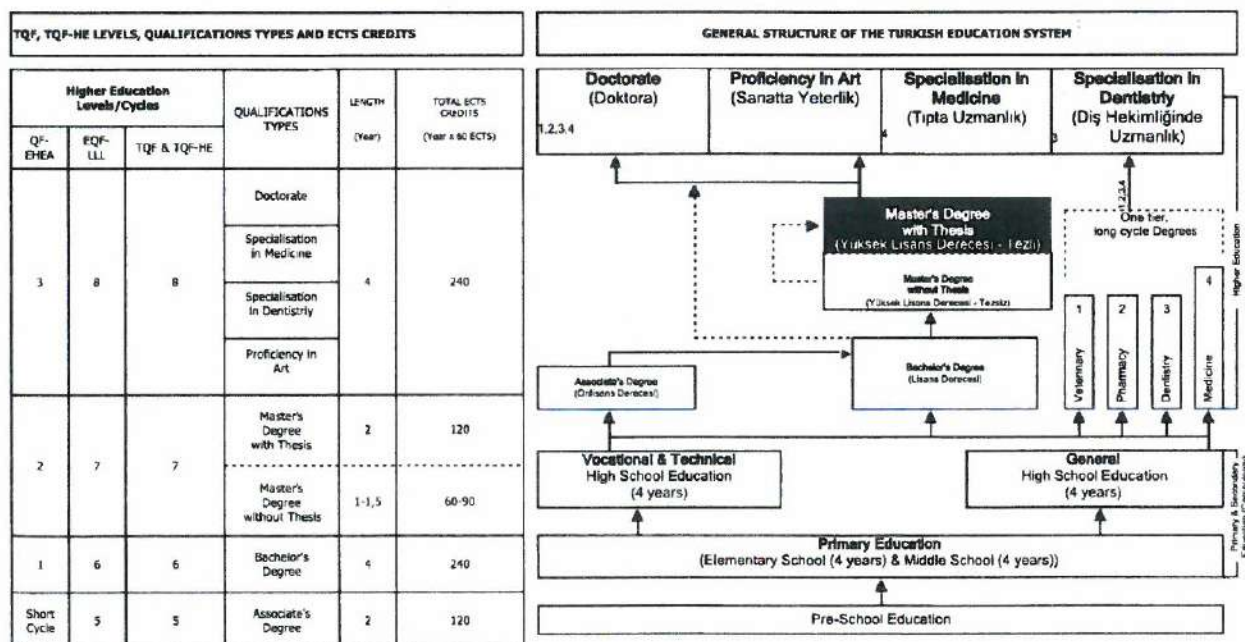
Universities consist of graduate schools (Institutes) offering second cycle and third cycle degree programmes, faculties offering first cycle programmes, four-year professional higher education schools offering first cycle degree programmes and two-year vocational schools offering short cycle degree programmes.

Admission requirements: Admission of national students to short and first cycle degree programmes is centralised and based on a nationwide one-two-stage examination(s) conducted by an autonomous public body (Assessment, Selection and Placement Centre-ÖSYM). Candidates gain access to institutions of higher education based on their composite scores consisting of the scores on the selection examination and their high school grade point averages. Admission to graduate programmes is directly conducted by the higher education institutions (HEIs) within the frameworks of the publicly available national and institutional regulations. Admission of international students to programmes at all levels of higher education can be done by direct applications of candidates to HEIs based on publicly available national and institutional regulations.

Turkish National Qualifications Frameworks: The National Qualifications Framework for Higher Education in Turkey (TQF-HE, TYYÇ in Turkish) developed with reference to the QF for European Higher Education Area and the EQF for lifelong learning was adopted by the CoHE in 2010. Later in 2015, the framework became a part of Turkish Qualifications Framework (TQF, TYÇ in Turkish) which was designed as a single framework in harmony with the European Qualifications Framework and displays all qualifications gained through vocational, general and academic programs including primary, secondary and higher education or other learning environments. The framework was referenced with the EQF in 2017.

TQF consists of 8 levels in which the higher education lies from 5 to 8. The levels of TQF and TQF-HE with reference to the European Overarching Qualifications Frameworks as well as that to ECTS credits and student workload are shown below.

Turkish Quality Assurance System: The Higher Education Quality Council of Turkey (THEQC) was founded as an autonomous public legal entity in 2015, and since then it has been operating at the national level for evaluating the quality levels of higher education institutions' education and research activities and administrative services at institutional level in accordance with the national and international quality standards, and coordinating the processes of institutional accreditation, internal and external quality assurance as well as authorization of independent external evaluation and accreditation organizations. THEQC is a full member of ENQA (The European Association for Quality Assurance in Higher Education) since April of 28, 2020.



APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

Staat TÜRKIYE - LA TURQUIE

İşbu resmi belge/This public document/Le présent acte public/Dieses zeugnis wurde

2. Oktay ERTÜNC tarafından imzalanmıştır./Has been signed by/a été signé par/durch ...
unterschrieben

3. İmzalayanın sıfatı Şube Müdürü'dür./Acting in the capacity of/Agissant en qualité de/Titel des
Unterzeichneten

4. MEB Yükseköğretim ve Yurt Dışı Eğitim Genel Müdürlüğü 'nin mühür/damgasını taşımaktadır-
bears the seal/stamp of-/est revêtu du sceau/timbre de-trägt Siegel/Stempel von

TASDİK / CERTIFIED / ATTESTE / BEGLAUBIGUNG:

5. Keçiören Kaymakamlığı' da/at/à/in

6. 12.07.2024 günü/the/le/Am

7. Şef Fatma YİĞİT tarafından/by/par/durch den/die

8. No : 41906 ile tasdik edilmiştir./No:/sous No:/unter Nr.

9. Mühür - Damga/Seal-stamp/Sceau-
timbre/Siegel-Stempel

10. İmza/Signature/Signature/Unterschrift:

.....

