

Master's Degree (Second Cycle) and Ph.D (Third Cycle) Programme in Geological Engineering

General Information

Niğde Ömer Halisdemir University Department of Geological Engineering started its formal education in the 1992-1993 academic year and its evening education in the 1995-1996 academic year. In our department master's and doctorate degrees educations [Rules and Conditions of Graduation](#) are provided via the Institute of Science. 2 Professors, 2 Associate Professors, 10 Assistant Professors, and 1 Research Associate are currently employed.

Several projects supported by TÜBİTAK, KOSGEB, etc, are carried out by the research groups in the department. Undergraduate and postgraduate students take charge of these projects.

Thanks to the bilateral agreements with EU countries and other countries, some of our graduate students continue their education abroad within the framework of the Erasmus Program.

The department consists of 4 Divisions: General Geology, Applied Geology, Mineralogy- Petrography and Ore Deposits-Geochemistry.

At the beginning of the 2005-2006 academic year Niğde Ömer Halisdemir University Department of Geological Engineering moved to its fully equipped modern building and trained Geological Engineers equipped with craft knowledge.

Aims and Objectives Aims:

- to educate geology engineers who deal with any phenomenon that occurs both in the earth and on the earth, who can present the data, techniques, and principles of the science of Geology to any use of engineering, who can prepare 4-dimensional (x-y-z-t) geological model of the project site, who can define the materials forming earth crust with his/her training, practical knowledge, and skills, who can predetermine problems and develop engineering solutions for them,
- to educate geology engineers who are qualified with enough knowledge and skills to bear responsibility and authority in his/her subject and who won't do anything against professional ethics our mission is to carry out basic and practical scientific research with an innovative approach and to provide all our knowledge for the use of all the sectors(mining, industry, medicine, defense, energy, building and so on...) related to the subject and for the use of society.

Objectives:

- To give our students undergraduate and master's degree (graduate) education with an understanding of continuous development and to educate students who carry out scientific research, who use their knowledge for the benefit of society and to educate students so that they can be qualified with professional knowledge to the extent that they will be the most wanted graduates in the business world and the scientific world.

Qualification Awarded

Upon successful completion of this program, students are awarded the qualification of **MASTER OF SCIENCE DEGREE and DOCTORAL DEGREE IN GEOLOGICAL ENGINEERING.**

Level of Qualification

Masters Degree Program meets the requirements both for ECTS credits and level descriptors of

the "Second Cycle" degree qualifications of [the Overarching Framework of European Qualifications Framework HE \(QF-EHEA\)](#) and the "7th Level" qualifications of [the Turkish Qualifications Framework for HE \(TYYC, NQF-HETR\)](#), as well as the "7th Level" requirements of the qualifications of [the European Qualifications Framework for Lifelong Learning \(EQF-LLL\)](#) in terms of the level descriptors.

Master's Degree with thesis is a two-year (4 semesters) program with 120 ECTS credits.

Doctoral Degree Program meets the requirements both for ECTS credits and level descriptors of the "Third Cycle" degree qualifications of [the Overarching Framework of European Qualifications Framework HE \(QF-EHEA\)](#) and the "8th Level" qualifications of [the Turkish Qualifications Framework for HE \(TYYC, NQF-HETR\)](#), as well as the "8th Level" requirements of the qualifications of [the European Qualifications Framework for Lifelong Learning \(EQF-LLL\)](#) in terms of the level descriptors.

Conditions change in the Doctoral Degree program for the PhD students accepted with an MSc Degree and accepted with a BSc Degree. Please see the [Rules and Conditions of Graduation](#) link at the Graduate School of Natural and Applied Sciences at Niğde Ömer Halisdemir University (The Institute) website.

Specific Admission Requirements

Admission requirements are determined in line with the regulations set by the Higher Education Council of Turkey. Information on applications for graduate programs and access requirements are announced on the web page of the university at the beginning of each academic year. The following requirements are applied for students:

- To have a First Cycle (BSc) degree in geological engineering
- To have ALES (Entrance Exam for Academic Personnel and Postgraduate Education) with a minimum score of 60 (or equivalent GRE score)
- To have a foreign language proficiency from national exams such as UDS (The Interuniversity Foreign Language Examination) or KPDS (The Foreign Language Examination for Civil Servants) or from international exams such as TOEFL (Test of English as a Foreign Language) accepted by Interuniversity Board. Students who do not have a foreign language proficiency might apply yet their foreign language score is evaluated as 0.
- The Candidates with a Bachelor's Degree from abroad must have a certificate of equivalence from the Council of Higher Education (YOK).
- ALES score is valid for 3 years.
- The candidates must apply in person. The applications with incomplete documents will not be evaluated.

For further information on the admission requirement for foreign students, please contact Niğde Ömer Halisdemir University International Office.

Contact:
International Office
Niğde Ömer Halisdemir Üniversitesi, Kampüs, Bor Yolu, Niğde, TÜRKİYE

Phone: 0 388 225 21 48 Fax:

0 388 225 23 85 E-mail:

erasmus@ohu.edu.tr

Web: <http://www.ohu.edu.tr/internationalrelationsoffice> **Specific**

Arrangements for Recognition of Prior Learning

With an understanding of lifelong learning, Niğde Ömer Halisdemir University recognizes the previously taken courses in another institution and exempts them from graduation credit, as long as the courses match with the learning outcomes of the registered Master's Degree (Second Cycle) and Doctoral Degree (Third Cycle) program in Geological Engineering at Niğde Ömer Halisdemir University.

Profile of the Programme

Masters degree and Doctoral degree programs in GEOLOGICAL ENGINEERING educate geology engineers who deal with any phenomenon that occurs both on the earth and on the earth, who can present the data, techniques, and principles of the science of Geology to any use of engineering, who can prepare 4-dimensional (x-y-z-t) geological model of project site, who can define the materials forming earth crust with his/her training, practical knowledge and skills, who can predetermine problems and develop engineering solutions for them, who are qualified with enough knowledge and skills to bear responsibility and authority in his/her subject and who won't do anything against professional ethics and our mission is to carry out basic and practical scientific researches with an innovative approach and to provide all our knowledge for the use of all the sectors(mining, industry, medicine, defense, energy, building and so on.) related to the subject and for the use of society.

Master's Degree program in Geological Engineering ("Second Cycle" in QF-EHEA and "7th Level" in TYYÇ) is an academically oriented program giving access to degree and non-degree research programs and professional practice demanding advanced levels of knowledge, skills, and competencies. The program can be classified in regards to [ISCED \(The International Standard Classification of Education\) 2011](#) and [NQF-HETR \(The Turkish Qualifications Framework for HE\)](#) profiles and fields of education as follows,

The Doctoral Degree program in Geological Engineering Engineering ("Third Cycle" in QF-EHEA and "8th Level" in TYYÇ) is an academically oriented program giving access to degree and non-degree research programs and professional practice demanding advanced levels of knowledge, skills, and competencies. The program can be classified in regards to [ISCED \(The International Standard Classification of Education\) 2011](#) and [NQF-HETR \(The Turkish Qualifications Framework for HE\)](#) profiles and fields of education as follows:

- ISCED Field of Education: 52 - Engineering And Engineering Trades
- ISCED 2011 Level: 7, Orientation (Profile): 74, Subcategory: 747, Academically- oriented "Second Cycle" degree
- ISCED 2011 Level: 8, Orientation (Profile): 84, Subcategory: 844, Academically- oriented "Third Cycle" degree
- NQF-HETR Field of Education: 52 - Engineering And Engineering Trades
- NQF-HETR Profile of Education: Academically-oriented "Second Cycle" degree

- NQF-HETR Profile of Education: Academically-oriented "Third Cycle" degree

Learning and Teaching Methods

The most frequently used instructional methods of the educational programs of Niğde Ömer Halisdemir University are given below. Programs commonly apply these methods as appropriate instructional approaches to their aims and objectives.

The instructional methods applied for achieving the goal of meeting the expected learning outcomes of the Master's and Doctoral Degree programs in Geological Engineering program at large are indicated in the section of 'program learning outcomes', and those methods utilized for individual course units are indicated in the relevant section of "description of individual course unit".

Learning and Teaching Methods

- Lecture & In-Class Activities
- Land Surveying
- Group Work
- Laboratory
- Reading
- Assignment (Homework)
- Project Work
- Seminar
- Web-Based Learning
- Implementation/Application/Practice
- Thesis Work
- Field Study
- Report Writing

Occupational profiles of graduates with examples

The employment opportunities for our graduates are extensive. They can take charge of project and planning stages of mining, environment, and construction areas. The raw materials used in industry is mainly are supplied from the earth and the geologists are in an important position for raw material supply. They can take charge of projects of construction of dams, bridges, and tunnels. They may also develop an academic career in Turkey or abroad.

Qualification Requirements and Regulations

Master's Degree program (second cycle) in Geological Engineering is awarded to students who have scored a Cumulative Grade Point Average (CGPA) of not less than 2.50 /4.00, defended his/her thesis successfully, and have completed all the courses (120 ECTS) with at least a letter grade of CB or S in the program.

For a student to be evaluated as successful in the Doctoral Degree programs, his/her point average must be at least BB (80).

For detailed information: Please see ["Niğde Ömer Halisdemir University's Rules & Regulations for Graduate Education" Access to Further Studies.](#)

Upon successful completion of the Master's degree program, students may apply to doctorate (third cycle) degree programs in or related fields of GEOLOGICAL ENGINEERING.

Examination Regulations, Assessment, and Grading

The methods applied for assessment of the achievement of the expected program learning outcomes for the entire Second and Third Cycle program of GEOLOGICAL ENGINEERING are shown below and those for the individual course units are given in the relevant section of the course description with their contribution to the final grades.

- Mid-Term Exam
- Final Exam
- Make-up Exam
- Short Exam
- Homework Assessment
- Presentation of Report
- Computer Based Presentation
- Presentation of Thesis
- Presentation of Document

Mid-term and final examinations are conducted in dates, places, and times determined and announced by the University. The students' final semester grade is given by their instructors based on mid-term examinations, homework evaluations, short examinations, final examinations, and, if there are any other assessment results taking into account the students' compliance with attendance to the course activities.

The contribution of assessment grades of the in-term activities to the final grade is 40% and that of the final exam is 60% for all the course units.

Course units, which do not require a mid-term, homework, short exam, and/or a final exam are determined by the administration of the related departments, and specific assessment and grading methods for these courses are also announced at the beginning of the semester. Evaluation of such activities is made through the procedures defined by the Senate and assessed by Pass (P) or Fail (F) grades.

Grading

The success of a student for each assessment (in-term and final) defined for each course unit is evaluated by the instructor. Evaluations are made over a scale of 100 points and converted to the letter grades at the end of the semester.

A student is considered to be successful in a course if he/she gets one of the following grades: AA, BA, BB, CB, S, or EX. The student's academic standing is calculated in the form of a Grade Point Average (GPA) on a scale of 4.00 and announced at the end of each semester. The total grade point of a course is obtained by multiplying the grade point by the course ECTS credit.

The semester GPA is calculated by dividing the total amount of grade points of courses gained in that semester by the total amount of ECTS credits of courses taken in the semester. The yearlong courses are included in the spring semester GPA. Cumulative Grade Point Average (CGPA) is calculated by dividing the total amount of grade points of all the courses in the curriculum to be taken by the total amount of 120 ECTS credits. For each course taken, the student is given one of the following letter grades and grade points:

Course Score	Course Grade	Grade Points
90-100	AA	4.00
85-89	BA	3.50
80-84	BB	3.00
75-79	CB	2.50
70-74	CC	2.00
65-69	DC	1.50
60-64	DD	1.00
50-59	FD	0.50
0-49	FE	0.00

Please see the section of [“Grade Evaluation”](#) for detailed information.

Classification of the qualification

A student who obtains a CGPA of 2.00-2.99 is considered a Satisfactory Student, one who obtains a CGPA of 3.00-3.49 is considered an Honours Student, and one who obtains a CGPA of 3.50-4.00 is considered a High Honours Student.

Graduation Requirements

For a student to graduate from a Master's Degree (Second Cycle) Programme in GEOLOGICAL ENGINEERING, he/she has

- Completed 120 ECTS credits with passing grades (54 ECTS credits for 7 graduate courses, 6 ECTS credits for a Seminar Course, 20 ECTS credits for 2 Special Topics Courses, and 40 ECTS credits for Thesis Studies taken at 2 consecutive semesters).
- A cumulative grade point average (CGPA) of at least 2.50 out of 4.00.
- Prepared and defended a thesis successfully.

The conditions for graduation from the Doctoral Degree program change for PhD students accepted with MSc degrees and PhD students accepted with BSc Degrees. For more information please see the [Rules and Conditions of Graduation](#) link on the Institute website.

Mode of Study:

Master of Science and Doctoral Programme in Geological Engineering at Niğde Ömer Halisdemir University is a full-time/face-to-face program.

Contact (Programme Director or Equivalent):

Position	Name Surname	Phone	E-mail
HEAD OF DEPARTMENT	Prof.Dr. Mehmet ŞENER	+903882252260	msener@ohu.edu.tr
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