

## **Ph.D (Third Cycle) Programme in Geological Engineering**

### **General Information**

Niğde Ömer Halisdemir University Department of Geological Engineering started formal education in the 1992-1993 academic year and evening education in the 1995-1996 academic year. In our department, master's and doctorate degrees are provided via the Institute of Science. Two professors, two Associate Professors, six Assistant Professors, and one Research Associate are currently employed.

The department's research groups carry out several projects supported by TÜBİTAK, KOSGEB, etc. Undergraduate and postgraduate students are involved in these projects.

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

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

In the beginning of 2005-2006 academic year Niğde Ömer Halisdemir University Department of Geological Engineering moved to a 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 and 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 doctorate 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 in the scientific world.

#### **Qualification Awarded**

Upon successful completion of this program, students are awarded with the qualification of DOCTORATE DEGREE (PhD) IN GEOLOGICAL ENGINEERING.

#### **Level of Qualification**

Doctorate 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 \(TYYÇ, NQF-HETR\)](#), 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.

Doctorate Degree with thesis is a four-year (8 semesters) program with 240 ECTS credits. **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

- Those who apply with their Master's Degree with thesis must have a minimum ALES score of 65 in the related field or an equivalent GPA score and they need to have a minimum Master's degree graduation average of 80 over 100.
- Those who apply with a Bachelor's degree have a minimum ALES score of 80 in the related field or an equivalent GPA score and they need to have a minimum Bachelor's degree graduation average of 80 over 100.
- The candidates with a Bachelor's and/or Master's Degree from abroad must have a minimum 55 score from national central language exams or international language exams which were accepted as equivalent by the Council of Higher Education (YÖK) or Measuring, Selection and Placement Center (ÖSYM).
- Those who apply with a Bachelor's or Master's degree from abroad should have an equivalence certificate taken from the Council of Higher Education (YÖK),
- 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 University, Campus, Niğde, TURKEY**

**Phone: 0 388 225 21 48**

**Fax: 0 388 225 23 85 E-mail:**

[erasmus@ohu.edu.tr](mailto: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 Doctorate Degree (Third Cycle) program in Geological Engineering at Niğde Ömer Halisdemir University.

### **Profile of the Programme**

DOCTORATE 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 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, 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.

The program can be classified in regards to NQF-HETR (The Turkish Qualifications Framework for HE) profiles and fields of education as follows:

•NQF-HETR Field of Education: 52 - Engineering And Engineering Trades •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 by their aims and objectives.

The instructional methods applied for achieving the goal of meeting the expected learning outcomes of the Doctoral Degree program 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 in project and planning stages of mining, environment, and construction areas. The raw materials used in industry is mainly are supplied from earth and the geologists are in an important position for raw material supply. They can take charge in projects of construction of dams, bridge, and tunnels. They may also develop an academic career in Turkey or abroad.

### **Qualification Requirements and Regulations**

Doctorate Degree program (third cycle) in Geological Engineering is awarded to students who have defended his/her thesis successfully and have completed all the courses with at least a letter grade of BB or S in the program.

For detailed information: Please see "Niğde Ömer Halisdemir University's Rules & Regulations for Graduate Education"

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

Graduates who completed doctorate degree may apply to both in the same or related disciplines in higher education institutions at home or abroad to get a position in academic staff or to governmental R&D centers to get expert position.

### **Examination Regulations, Assessment, and Grading**

The methods applied for assessment of the achievement of the expected program learning outcomes for the entire 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, or S, The student's academic standing is calculated in the form of a Grade Point Average (GPA) out of 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 credits. For each course taken, the student is given one of the following letter grades and grade points:

<u>Course Grade</u>	<u>Grade Points</u>
AA	4,00
BA	3,50
BB	3,00
CB	2,50
CC	2,00
DC	1,50
DD	1,00
FD	0,50
FF	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 as a Satisfactory Student, the one who obtains a CGPA of 3.00-3.49 is considered a 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 Doctorate Degree (Third Cycle) Program in GEOLOGICAL ENGINEERING, he/she has

- For graduation from Doctoral Degree programs after a Master’s Degree 240 ECTS are required (minimum of seven courses providing a minimum of 21 credits, seminar, a proficiency exam, thesis proposal, and four-semester thesis study)
- graduation from Doctoral Degree programs after Bachelor’s Degree 300 ECTS are required (minimum of fourteen courses providing a minimum of 42 credits, seminar, a proficiency exam, thesis proposal, and four-semester thesis study)
- Final grades for postgraduate courses are a sum of 40% of midterm exam grade and 60% of general exam grade. For a student to be evaluated as successful in the Doctoral Degree programs, his/her point average must be at least BB (80).
- The students in our Doctorate program who enrolled in our Institute from the 2015-2016 Fall Semester should have 1 (one) scientific paper related to their doctorate studies published in journals indexed by Science Citation Index (SCI), SCI-Expanded or AHCI (Art and Humanities Index) or should have the DOI number of the paper from the journal to take the thesis defense exam.
- Prepared and defended a thesis successfully.

### **Mode of Study:**

Doctorate 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. Mustafa KORKANÇ	+903882252259	<a href="mailto:mkorkanc@ohu.edu.tr">mkorkanc@ohu.edu.tr</a>
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