

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

### **General Information**

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

A number of projects supported by TÜBİTAK, KOSGEB, etc, are carried out by the research groups in the department. Undergraduate and postgraduate students take charges in 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 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 its full equipped modern building and trains 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-dimentional (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,
- 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 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.

#### **Objectives:**

- To give our students doctorate degree (graduate) education with an understanding of continuous development and to educate students who carry out scientific researches, who use their knowledge for the benefit of the society and to educate students in order 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-years (8 semesters) program with 240 ECTS credits.

### **Specific Admission Requirements**

Admission requirements are determined in line with the regulations set by Higher Education Council of Turkey. Information on application 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 minimum 55 score from national central language exams or international language exams which were accepted as equivalent from the Council of Higher Education (YÖK) or Measuring, Selection and Placement Center (ÖSYM).
- Those who apply with Bachelor's or Master's degree from abroad should have equivalence certificate taken from 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 to 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](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) programme 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 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 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. Programmes commonly apply these methods as appropriate instructional approaches in accordance with their aims and objectives.

The instructional methods applied for achieving the goal of meeting the expected learning outcomes of 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 charges 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 geologist are in an important position for raw material supply. They can take charges in projects of construction of dam, 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 successfully 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 examination, homework evaluation, short-examinations, final examination and, if there is 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.

### **Course Grade Grade Points**

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

For each course taken, the student is given one of the following letter grades and grade points:

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 as a Honours Student, and the one who obtains a CGPA of 3.50-4.00 is considered as a High Honours Student.

### **Graduation Requirements**

In order for a student to graduate from Doctorate Degree (Third Cycle) Program in GEOLOGICAL ENGINEERING, he/she has

- Completed 240 ECTS credits with passing grades for the candidates who has master degree ( with condition of taking at least 21 credits and 7 courses including seminar course, qualification exam, thesis proposal and thesis studies for 4 semesters). On the other hand, completed 300 ECTS credits with passing grades for the candidates who has bachelor science degree (with condition of taking at least 42 credits and 14 courses including seminar course, qualification exam, thesis proposal and thesis studies for 4 semesters).
- Prepared and defended a thesis successfully.
- As from 2015-2016 education term, in order to enter the thesis defending exam for the registered Phd students in our institute, at least 1 journal paper related with the thesis must be published or accepted given as DOI number in SCI, SCI-Expanded or AHCI journal.

### **Mode of Study:**

Doctorate Programme in Geological Engineering at Niğde Ömer Halisdemir University is a full time / face to face programme.

### **Contact (Programme Director or Equivalent):**

Position	Name Surname	Phone	E-mail
HEAD OF DEPARTMENT	Prof.Dr. Mehmet ŞENER	+903882252260	<a href="mailto:msener@ohu.edu.tr">msener@ohu.edu.tr</a>
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