PhD (Third Cycle) Programme in Mathematics

General Information

The Mathematics Department of the Niğde Ömer Halisdemir University launched its education activities in 1992, by recruiting its first graduate students, and then undergraduate students in 1998-1999 educational term. Doctorate program in the department was started in 2010. The Department has a young, dynamic and complete academic staff of 14 people, consisting of 5 Professor, 2 Associate Professors, 5 Assistant Professors, 1 Lecturer, and 1 Research Assistants. The Department consists of five Divisions: Analysis and Functions Theory, Algebra and Number Theory, Topology, Geometry and Applied Mathematics.

The Mathematics Department carries out academic and scientific studies in the field and offers a competent education with its dynamic and young academic staff.

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.

Through the PhD (Third Cycle) programme, students develop skills to participate in scientific activities, and share the results with the exrerienced and young academics and they may continue their academic career in related the universities in Turkey or abroad.

Aims and Objectives

Aims :

- **To provide the students the skills to think about their specialization area actively and creatively**
- **To offer advanced level education for mathematicians for taking part in research and making contributions to research and development in the field of science and technology**
- **To raise scientists in graduate level that has analytic thinking skill and ethical values**

Objectives :

- **To play a role to contribute to the science**
- **To create knowledge and technologies in a level that will contribute national development**
- **To develop scientific thinking**

Qualification Awarded

Upon successful completion of this program, students are awarded with the qualification of DOCTORATE DEGREE in MATHEMATICS

Level of Qualification

Doctorate with thesis in MATHEMATICS is a four-year (8 semesters) program with 240 ECTS credits. The 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.

Specific Admission Requirements

Admission requirements are determined in line with the regulations set by Higher Education Council of Turkey. Information on application for PhD 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 mathematics**
- **To have ALES (Entrance Exam for Academic Personnel and Postgraduate Education) with minimum score of 55 (or equivalent)**
- **To have a foreign language proficiency from national exams such as YDS (Foreign Language Proficiency Test), 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 the 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 to Niğde Ömer Halisdemir University International Office.

Contact:

International Office
Niğde Ömer Halisdemir University, Kampüs, Bor Yolu, Niğde, TÜRKİYE

Phone: +90 388 225 21 48
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Web: http://www.ohu.edu.tr/uluslararasi/index.php?ln=en

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 exempt them from graduation credit, as long as the courses match with the learning outcomes of the registered PhD (Third Cycle) programme in Mathematics at Niğde Ömer Halisdemir University.

Profile of the Programme

Mathematics department has been established with a mission to provide the students a high quality program to follow and learn the technologies and at the same time to participate in applied and theoretical research actively. So the program is organized to provide the students the opportunity to specialize in Analysis and Functions Theory, Algebra and Number Theory, Topology, Geometry and Applied Mathematics.The students also develop skills to participate in scientific activities, and share the results with exrerienced and young academics and they may continue their academic career in related the universities in Turkey or abroad.

Doctorate program in Mathematics ("Third Cycle" in QF-EHEA and "8th Level" in TYYÇ) is an academically-oriented program giving access to 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: 46 – Mathematics and Statistics
- ISCED 2011 Level: 8, Orientation (Profile): 64, Subcategory: 645 - Academically-oriented "third cycle", PhD degree
- NQF-HETR Field of Education: 46 – Mathematics and Statistics
- NQF-HETR Profile of Education: Academically-oriented "third cycle", PhD 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 the PhD Degree program in Mathematics 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 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

PhD program in Mathematics can not only work in the private schools and courses by doing non-thesis master's degree, but also teach by taking place in the staff of National Education Ministery if they become successful in KPSS. Our graduate students can make computer-based studies with their computing skills, in the ratio of which they can learn and improve themselves in various foundations. Our graduates, who can work in banking sector recently, can be employed in the foundations that make various scientific researches.They can work as academic staff in higher education institutions.

Qualification Requirements and Regulations

PhD Degree program (third cycle) in Mathematics is awarded to students who have scored a Cumulative Grade Point Average (CGPA) of not less than 3.00 /4.00, defended his/her thesis successfully, and have completed all the courses (240 ECTS) 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"

Access to Further Studies

Upon successful completion of PhD degree programme, students can pursue an academic career in releted fields.

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 MATHEMATICS 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 grades.

- Mid-Term Exam
- Final Exam
- Make-up 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, final examination 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.

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 (Successful). 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 240 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	FF	0.00

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

To graduate from PhD Degree (Third Cycle) Programme in MATHEMATICS, the student has

- **Completed 240 ECTS credits with passing grades**
- **A cumulative grade point average (CGPA) of at least 3.00 out of 4.00.**
- **Prepared and defended a thesis successfully.**

Mode of Study:

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

Contact (Programme Director or Equivalent):

Mevki	Adı Soyadı	Telefon	E- Posta
Head of Department	Prof. Dr. Adnan TUNA	03882254088	atuna@ohu.edu.tr
ERASMUS and ECTS Coordinator	Dr. Öğr. Üyesi Güldem YILDIZ	03882254093	guldem.yildiz@ohu.edu.tr