

Master's Degree (Second Cycle) Programme in Mechanical Engineering

General Information

Undergraduate students had been recruited in 1995-1996 educational term. The department has a young, dynamic and complete 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 Master of Science (Second Cycle) programme, students develop skills to participate in scientific activities, and share the results with scientific community and they may continue their academic career by enrolling in related Ph.D. programs of the universities in Turkey or abroad.

Aims and Objectives

Aims :

To coach students through instruction of fundamental engineering information and contemporary educational methods in becoming Mechanical Engineers who can fulfill occupational requirements of the worldwide industry. Equipped with advanced technology, our laboratories serve our students in contributing their applied knowledge to Mechanical Engineering.

Objectives :

To become one of the best departments of Mechanical Engineering that follows technological developments and pursues advanced level scientific research, to train Mechanical Engineers who are critical thinkers possessing leadership skills and capable of interdisciplinary collaboration and who are innovative and can produce original solutions.

Qualification Awarded

Upon successful completion of this program, students are awarded with the qualification of MASTER OF SCIENCE DEGREE IN MECHANICAL ENGINEERING.

Level of Qualification

Master's Degree with thesis in MECHANICAL ENGINEERING is a 120 ECTS Credits, 2-year program. The program meets the requirements by both the 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 \(TYYÇ, NQF-HETR\)](#). The level descriptors also meet the 7th level requirements of the qualifications of the [European Qualifications Framework for Lifelong Learning \(EQF-LLL\)](#).

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 both national and foreign students:

- To have a First Cycle (BSc) degree.
- To have ALES (Entrance Exam for Academic Personnel and Postgraduate Education) with minimum score of 60 (or equivalent GRE point)
- To have a foreign language proficiency from national exams such as YDS (Foreign Language

Proficiency Test) or from international exams such as IELTS (International English Language Testing System) or 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).

Information

1. ALES score is valid for 3 years. ALES score is valid for 3 years. However, it is not required for a candidate who graduated or left from a Master program one semester ago.
2. The graduation scores in Cumulative Grade Point Average (CGPA) systems will be evaluated according to the YOK's conversion table.
3. The candidates must apply in person. The applications with incomplete documents will not be evaluated.

For further and detailed information please visit [General Admission Requirements](#) and [Registration Procedures](#) in the menu items of the Information on the Institution.

For further information on the admission requirement for foreign students, please contact to Nigde Omer Halisdemir University International Office.

Contact :

International Office

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Specific Arrangements for Recognition of Prior Learning

With an understanding of lifelong learning, Nigde Omer 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 programme at Nigde Omer Halisdemir University. The learning outcome match and the exemption are decided by the Institute Board in line with the related laws and regulations.

Profile of the Programme

Master's Degree program in Mechanical Engineering has been established with a vision that introducing innovative products can only be achieved by specialization and by combining creativity and engineering experience. This program is organized to provide the students the opportunity to specialize in Construction and Manufacturing, Energy, The Theory and Dynamics of Machines, Mechanics and Thermodynamics. The students also develop skills to participate in scientific activities, and share the results with scientific community and they may continue their academic career by enrolling in related Ph.D. programs of the universities in Turkey or abroad.

Master's Degree program in Mechanical 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:

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

Learning and Teaching Methods

The most frequently used Instructional Methods of the educational programs of Nigde Omer Halisdemir University are given below. Programs 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 at the Mechanical 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".

Examples of 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 global natures of the electrical and electronics industries ensure many career opportunities in Turkey as well as in Europe and beyond. Our graduates can be engaged in many fields such as research and development, design, production, marketing, after-sale services, project development, according to their individual interests and preferences.

The employment opportunities for our graduates may be in Small and Medium Enterprises (SME's), in large scale companies and multinational companies operating in manufacturing, energy systems and defense industries.

They may also develop an academic career by enrolling in related Ph.D. program of the universities in Turkey or abroad.

Qualification Requirements and Regulations

Master's Degree program (second cycle) in Mechanical 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 detailed information: Please see ["Nigde Omer Halisdemir University's Rules & Regulations for Graduate Education"](#)

Access to Further Studies

Upon successful completion of this programme, students may apply to doctorate (third cycle) degree programs in or related fields of MECHANICAL ENGINEERING.

Examination Regulations, Assessment and Grading

The methods applied for assessment of the achievement of the expected program learning outcomes for the entire Master's degree program of MECHANICAL 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
- 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.

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 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 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	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

In order for a student to graduate from the MECHANICAL ENGINEERING Master's degree program the following conditions must to be met:

- Completed 120 ECTS credits with passing grades (56 ECTS credits for 7 graduate courses and 21 credits; 6 ECTS credits for a Seminar Course; 2 ECTS for thesis study; 6 ECTS credits for Special Topics Courses taken at 3 consecutive semesters, and 60 ECTS credits for Thesis Studies taken at 2 consecutive semesters).
- Achievement of a cumulative grade point average (CGPA) of at least 2.00 out of 4.00.
- To achievement in

the Master Thesis

Mode of Study:

Bachelor of Science in Mechanical Engineering at Nigde Omer 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. Bora TİMURKUTLUK	+903882252251	bora.timurkutluk@ohu.edu.tr
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