REASONS TO APPLY

Because automation guarantees comfortable and safe life and work conditions

Because automation is a young cart and it is natural that it will employ young skilled professionals

Because graduates in automation engineering and robotics will acquire knowledge not only in automation and robotics, but also in computers, electronics, telecommunications, and mechanics

Because graduates in automation engineering and robotics are able to design and manage complex systems and processes with applications spanning from industry to transportation, from network management to the service sector

Because graduates in automation engineering and robotics find rewarding jobs immediately after graduation from both a cultural and and remunerative point of view in Italy or abroad.

Coordinator of Master's Degree in Automation Engineering and Robotics
Prof. Gianmaria De Tommasi
gianmaria.detommasi@unina.it
ingegneria-automazione@unina.it

Useful Links

Polytechnic and Basic Sciences School
www.scuolapsb.unina.it

Department of Electric Engineering and Information Technology
Via Claudio 21, 80125 Napoli
www.dieti.unina.it

AutomationEngineering and Robotics Degree links
ingegneria-automazione.dieti.unina.it/
fb.com/Automazione-UNINA-880210735350675/
twitter.com/AutomaUNINA
t.me/AutomaUNINA

Degree Program Counselors
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Student Secretariat
Piazzale Tecchio 80, 80125 Napoli
Opening hours: Monday to Friday, from 9.00 to 12.00
Tuesday and Thursday also from 14.30 t 16.30

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UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
SCUOLA POLITECNICA E DELLE SCIENZE DI BASE

ENGINEERING

MASTER'S DEGREEE IN AUTOMATION ENGINEERING AND ROBOTICS

DIETI UNINA

2020|21

LEARNING OUTCOMES

Graduates in automation engineering and robotics are able to design, implement and manage devices, machines, robots and automation systems

The automation engineering and robotics program is grounded on solid knowledge in mathematics and physics and aims at training students to solve challenging automation problems in many diverse application areas (robotics, industry, transportation, services, home automation, medicine, environment, agriculture, electronics)

Graduates in automation engineering and robotics become able to apply methodologies and techniques to analyze, design and manage complex automation systems through the use of theoretical and applied tools of automation engineering.

ADMISSION REQUIREMENTS

You are eligible to the Automation Engineering and Robotics MSc program if you already have the BSc degree or an equivalent degree achieved abroad. According to the university regulation, the degree course commission shall asses the suitability of the personal background, recognising part or all the already obtained credits. This constraint is usually automatically satisfied if you have achieved a degree score higher than the threshold mark given in the university regulation, please find the link:
ingegneria-automazione.dieti.unina.it/index.php/it/corsi-di-studio/regolamento-per-l-ammissione

MASTER'S DEGREE PLAN

Program: 2 years / 120 CFU

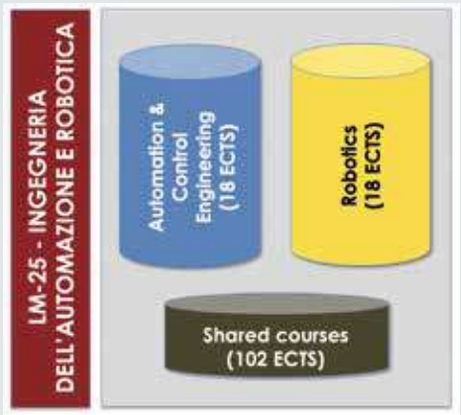
The first year and the first semester of the second year include shared courses taught in Italian, which include robust and nonlinear control, robotics, advanced industrial engineering (electrical and mechanical), real-time OS, advanced electromagnetism, and operational research.
At the second year, the second semester includes the following curricula:
- Automation & Control Engineering
- Robotics

Each of them include 18 ECTS completely taught in English.

FIRTS YEAR	CFU
Complementi di controlli (ITA)	6
Complementi di meccanica (ITA)	9
Controllo di macchine e azionamenti elettrici (ITA)	9
Identificazione e controllo ottimo (ITA)	6
Modelli e metodi della ricerca operativa (ITA)	6
Progetto e sviluppo di sistemi in tempo reale (ITA)	9
Attività formative curriculari a scelta dello studente (ITA)	9

SECOND YEAR	
Dinamica e controllo nonlineare (ITA)	6
Fondamenti di robotica (ITA)	9
Attività formative curriculari a scelta dello studente (ENG)	18
Attività formative a scelta dello studente (ITA/ENG)	12
Ulteriori conoscenze (Project Work)	6
Prova finale (Master Thesis)	15

At the second year, students can opt for an internal (Italian) double degree in both Automation Engineering and Robotics and Mathematical Engineering, by following a 3 years curricula. More details can be found here
ingegneria-automazione.dieti.unina.it/index.php/it/corsi-di-studio/doppia-laurea-magistrale-interna
and here
www.mathematical-engineering.unina.it/index.php/en/degree-programme/double-degree



JOB OPPORTUNITIES

Graduates of the automation engineering and robotics program find employment in a wide range of occupations, including:
- companies that develop hardware and software for automation
- companies that design and manufacture machines, robots and systems with high level of automation
- companies that manage automated production systems
- companies that manage large scale network and services
- engineering and consulting companies that analyze and design complex systems
- consultancy companies
- Research institutes and universities

FURTHER STUDIES

Automation and Robotics engineer with MSc degree can have access to post-grad research fellowships or PhD positions. In particular at DIETI are active two PhD Schools:
iteePhD - Information Technology and Electrical Engineering
itee.dieti.unina.it/index.php/en/
ICTHPhD - ICT for Health
icth.dieti.unina.it/index.php/en/

CAMPUS AREA

Teaching and laboratory activities take place in the campus of Napoli Ovest, via Claudio, Napoli.
This area is easily accessible and well connected via public transport.