MSc in Rehabilitation and Assistive Technologies

DUAL DEGREE PROGRAMME

Shaping the Future of Inclusion Through Technology

University of Macedonia - Aristotle University of Thessaloniki
KTH Royal Institute of Technology, Stockholm

About the Programme

An Innovative Dual Degree

The MSc in Rehabilitation and Assistive Technologies is a pioneering dual degree jointly delivered by three leading institutions:

- University of Macedonia (Department of Educational and Social Policy)
- Aristotle University of Thessaloniki (School of Medicine)
- KTH Royal Institute of Technology, Sweden

The programme addresses the urgent global need for specialists who can design, develop, and deploy technologies that enhance quality of life for individuals with disabilities and support neurorehabilitation. Its interdisciplinary nature bridges engineering, medicine, and social policy.

Dual Degree Award

Graduate with two internationally recognised MSc degrees

Interdisciplinary

Combines engineering, medicine, education, and social policy

Inclusivity Focus

Centred on accessibility and the needs of people with disabilities

Research-Led

Two specialist labs with cutting-edge rehabilitation equipment

European Network

International partnership anchored in Sweden via KTH

Partner Institutions

University of Macedonia

Dept. of Educational and Social Policy

Thessaloniki, Greece

A leading Greek university with deep expertise in educational technology, social robotics, and teacher training. Its specialised labs in accessibility, assistive technology, and educational robotics provide the research backbone of this programme.

www.uom.gr

Aristotle University of Thessaloniki

School of Medicine

Thessaloniki, Greece

Greece's largest university and a renowned European medical institution. The School of Medicine contributes clinical expertise in rehabilitation medicine, neurology, and patient-centred care to the programme's interdisciplinary curriculum.

www.auth.gr

KTH Royal Institute of Technology

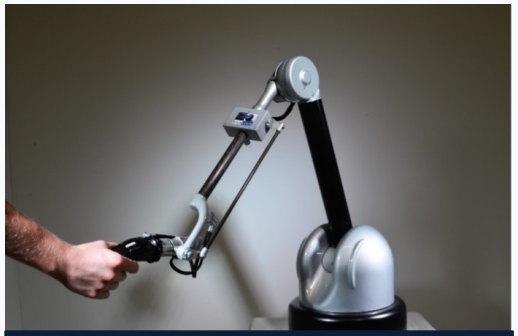
School of Electrical Engineering & Computer Science

Stockholm, Sweden

Since 1827, KTH has been one of Europe's top technical universities. Ranked among the world's best for engineering and technology, KTH brings world-class expertise in robotics, human-computer interaction, and biomedical engineering.

www.kth.se

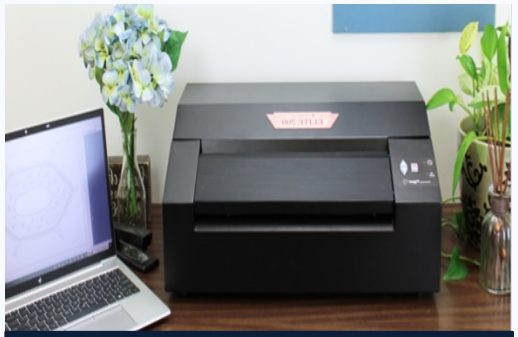
State-of-the-Art Facilities — Accessibility & Assistive Technology Lab



Virtuose 6D Haptic Device

Dexmo Haptic Gloves

Reachy 2 Humanoid Robot



Tiger Elite 200 Braille Printer

Accessibility & Support for Persons with Disabilities Lab

asdlab.uom.gr

- Professional 3D Printer (German RepRap X500)
- Advanced 6DOF Haptic Device with Force Feedback (Virtuose 6D + HGlove)
- Wireless Haptic Exoskeleton Gloves (Dexmo)
- Haptic Devices: PhantomOmni, Phantom Desktop, Novint Falcon
- Portable 3D Scanner (Artec Leo — 10 micron precision)
- Humanoid Robot (Reachy 2 Full Kit + VR Teleoperation)
- Braille & Tactile Graphics Printer (Tiger Elite 200)
- Biosensor Technology Platform (EEG, eye tracking, emotion analysis)
- VR System (HTC Vive Pro Eye)
- Eye-Gaze Computer Access System (Tobii PCEye Mini)
- AAC Software & Tactile Tablets (IVEO ViewPlus, GRID 3)
- Head Mouse, Gyroscopic Mouse, Trackball — for motor disabilities

State-of-the-Art Facilities — Informatics & Robotics in Education and Society Lab

NAO Humanoid Robot

Pepper Social Robot

STIMEY (Custom Robot)

Daisy Robot (autism spectrum support)

Informatics & Robotics in Education and Society Lab

lires.uom.gr

- 3 Humanoid Robots NAO Aldebaran + 2 Pepper Softbank Robots
- Custom Social Support Robot for STEM: STIMEY
- Social Support Robot for Autism Spectrum: Daisy / Margarita
- Social Interaction Robot: Pleo Dinosaur
- Industrial 6-DOF Robotic Arm: Racer 3 COMAU
- Dual-Extrusion 3D Printers for Robotic Parts: Sigma R19 BCN3D (×2)
- Educational Robotics Kit: LEGO Mindstorms EV3
- Automation & Coding Kit: Arduino
- Research Software: NVivo Pro, Comprehensive Meta-Analysis, SurveyMonkey
- Cognitive Training Software Platform
- New (Funded): Autonomous Drone (6 kg payload, obstacle avoidance)
- New (Funded): Mixed Reality Headsets & Biosensor Platform

Who Should Apply & Career Prospects

Ideal Candidates

The programme's interdisciplinary scope welcomes graduates from a wide range of fields:

- 💻 Computer Science & Informatics
- ⚙️ Mechanical Engineering
- ⚡ Electrical & Electronic Engineering
- 🏗️ Accessibility & Environmental Design Engineering
- 🩺 Medicine & Health Sciences
- 👩‍🏫 Education & Special Education
- 🧠 Cognitive Science & Psychology
- 📐 Biomedical Engineering

Career Opportunities

Healthcare & Rehabilitation Centres

Design and implement assistive technology solutions for clinical settings

Technology & Engineering Industry

Develop rehabilitation devices, prosthetics, exoskeletons, and AR/VR tools

Academic Research

Pursue doctoral research in leading European and international institutions

Government & Policy

Shape public policy on accessibility, inclusion, and disability rights

NGOs & Social Enterprises

Lead inclusive technology projects for communities and vulnerable populations

Apply Now

Take the next step towards a career at the frontier of rehabilitation technology

Programme Coordinator

Department of Educational and Social Policy
University of Macedonia, Thessaloniki

For Information

Visit our website for admission requirements and application deadlines

https://ratech.uom.gr/

Greece 2.0
NATIONAL RECOVERY AND RESILIENCE PLAN

Funded by the European Union
NextGenerationEU