"Gheorghe Asachi" Technical University of Iasi
Faculty of Automatic Control and Computer Engineering

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"Gheorghe Asachi" Technical University of Iasi

Systems and Control (SC)
English - Taught Master of Science Programme

Discover wonderful

IASI

not just a city, an experience

Friendly inhabitants and almost 60,000 students
from all over Romania and the world

Awesome places, lots of **art, history and culture**,
delicious food and a vibrant nightlife

Growing economy and a lot of **great**
career **opportunities**

Social and cultural activities for your **passions**: great music festivals,
dance schools, theatre, gastronomy classes, gym halls, sport courts

Touristic attractions: Bothanical Garden, Palace of Culture,
historical sites, museums, monasteries and churches

A lot of coworking and networking spaces,
a chance to grow in a **successful community**

USEFUL INFORMATION

Romanian currency is called 'lei', with the subdivision called 'ban' (1 leu = 100 bani), and the coins in circulation are: 1 ban, 5 bani, 10 bani, 50 bani. In addition there are the following bills: 1 leu, 10 lei, 50 lei, 100 lei, 200 lei, 500 lei. Please consult www.bnr.ro for exchange rates.

Start your student life in the most youthful way in 'Tudor Vladimirescu' Campus. Living in one of the dorms on campus is the best way to quickly make new friends.

The local public transport company covers Iași metropolitan area with bus and tram services. Timetables can be obtained from each ticket booth. Public transport is considerably cheap, at about 0.45 euros for a one-way ticket.
If you are in a hurry, you can get a cab for about 0.55 euros/km. All taxis are yellow and have meters and we recommend you to use only authorised companies' taxis.

The standard voltage is 230 V. If you travel to Romania with a device that does not accept 230 Volts / 50 Hertz frequency, you'll need a plug adaptor.

TRAVELLING TO IASI

By plane

Iași Airport is one of the oldest airports in Romania. There are direct flights to / from big cities like London, Madrid, Munich, Rome, Bologna, Turin, Tel Aviv, Paris, Barcelona, Brussels, Cologne, Milan, Venice, Larnaca, Vienna and new flights are constantly being added.
Once in Iași Airport, the city centre can easily be reached by bus or taxi (20 minutes' drive).

By train

When you arrive in Bucharest, the capital of Romania, you have several cheap ways of getting to Iași by train. Many students enjoy travelling by the Intercity express or the first class of other fast trains, which are quite comfortable. Please visit CFR website (Romanian Railways Company), for the latest train schedules for domestic routes. You can also buy a train ticket online from this website. Iași is connected by train to many important European cities, for details please check this page: https://www.cfrcalatori.ro/en/international-traffic.

By car / bus

The fastest route from Bucharest to Iași is via E85, E 581. There are also a lot of private companies offering domestic and international transport services to and from Iași.

ADMISSION PROCEDURES FOR INTERNATIONAL STUDENTS (self - sponsored) - in brief

General admission requirements for candidates from EU, EEA countries and the Swiss Confederation

1. Recognition of graduated studies for citizens of the European Union / European Economic Area Member States or the Swiss Confederation for admission in a Romanian higher education institution – undergraduate studies and master studies .
2. Application documents. The required documents for admission at Gheorghe Asachi Technical University of Iași are detailed on www.study.tuiasi.ro

General admission requirements for non-EU citizens

Non-EU citizens who want to study at TUIASI have to apply to our university in order to be pre-enrolled. The accepted files will be sent to the Ministry of National Education for evaluation. Candidates accepted will receive the Letter of acceptance, which is the final necessary and compulsory document to study in Romania, issued by the Ministry of Education.

For more information, application form and other documents, scan the QR code or acces http://study.tuiasi.ro/systems-and-control/

VOLUNTEERING OPPORTUNITIES

The volunteering activity is coordinated by TUIASI Counseling Center, which will issue the volunteer certificate based on student activity. TUIASI students can obtain additional credits (up to 3 credits for 150 hours) through their participation in accredited volunteer activities.

CAREER PROSPECTS

The graduates of the SC master programme have competences suitable for obtaining jobs in companies, academic institutions and research centres with interest in fields as systems engineering, automatic control, applied informatics.

TU IASI

Technology for the people around us

The oldest tradition in technical higher education and research in Romania

11 faculties in various fields of engineering and architecture

13.000 students, 23 research and excellence centres

One of the most beautiful libraries in the world

A recognised School of Inventics with more than 40 years of experience

Over 350 EU and non-EU Erasmus + agreements

13 student associations at TUIASI -BEST, AIESEC and one for each of the 11 faculties

One of the largest campuses in Romania

Awesome places, tasty local food and great leisure opportunities in student campus

Free Internet in all residence halls

Systems and Control

Master of Science Programme

Master's studies in Systems and Control (SC) are intended for graduates having basic knowledge of automatic control and wishing to deepen their expertise in several research directions.
The Systems and Control graduate programme has an interdisciplinary curriculum built on engineering branches as automatic control, applied informatics, robotics, communications, and electronics.

The covered topics help the students to gain professional competences in: working with advanced concepts of systems theory and automatic control, computer science, artificial intelligence, information technology and communications; using advanced methods of computer-assisted modelling, simulation, identification, analysis and design of automatic control systems; designing, implementing, testing, operation and maintenance of technical equipment and advanced automatic control structures; software development to implement complex control algorithms using programming tools, artificial intelligence techniques and advanced technologies.

Faculty Name:
Faculty of Automatic Control and Computer Engineering

Study domain:
Systems Engineering

Name of the specialisation programme:
Systems and Control

Language of instruction:
This study programme is offered both in English and Romanian.

Type of studies:
Full time

Standard length of studies (in years) & number of semesters:
2 years / 4 semesters

Number of ECTS Credits
30 credits / semester, 120 credits in total

Academic calendar:
October 1st – June 30th.
Extended to September 30th for re-examinations.

First Year

Mandatory courses
- Embedded Systems
- System-Theory for Robotics
- Bond Graph Language in Physical Modelling
- Agile Software Development
- Web Technologies in Communications and Control
- Numerical Experimental Approach in Structural Dynamics
- Integration Project Systems and Control

Elective courses
- Nonlinear Dynamics
- Knowledge Representation and Reasoning
- Hybrid Intelligent Systems

Second Year

Mandatory courses
- Project Management
- Research Practice for Dissertation Thesis

Elective courses
- Fault Detection and Diagnosis
- Visual Servoing Control Systems
- Modelling and Predictive Control

Research for Master's Thesis