



**SAMARA
UNIVERSITY**

INTERNATIONAL SCHOOL

6 winter schools
(online and on-campus
programs)





International Schools Department of Samara University

Samara National Research University (Samara University) is one of the most dynamically developing Russian universities. The University is formed by the union of Samara State Aerospace (**founded 1942**) and Samara State (**founded 1969**) universities. In recent years, the university has been steadily improving its performance in Russian and international rankings.

Institute of Economics and Management

Institute of Aerospace Engineering

Institute of Engines and Power Plant Engineering

Institute of Natural Sciences

Institute of Social Sciences and Humanities

Institute of IT and Cybernetics

Institute of Law

For many years, Samara University has been inextricably linked with the overall industrial and economic development of the region, which is one of the leading domestic and world centers of aerospace technologies.

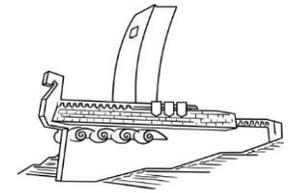
Currently, teaching and research at Samara University are organized by 7 institutes. There are many unique scientific laboratories here.

Samara University (top-10 universities in Russia) organizes **international schools since 2015**.





Samara City



Samara city is located in the southeastern part of European Russia on the eastern bank of the Volga River. Samara is called the space capital of Russia.

Samara is one of the largest cities in Russia. Its population is over 1,170,000 citizens.

Now the city is an important political, industrial and cultural center of Russia. The city is a busy communication hub and an important center of the aerospace, automotive, chemical and energy industries.

Samara is known for the production of aerospace launch vehicles, satellites, aircraft, various engines and chemical products.

The city experiences a humid continental climate. The average temperature reaches -10...0 °C in February.





General Information about Winter Schools

International school is a short-term educational program on a specific field of knowledge for international students. The program can be held online or on-campus.



Online winter school includes the study part of a 2 hour lecture/workshop/project work via online platform and the cultural & social program that presents live and online excursions, virtual tours around Samara city and Russia, master classes and interactive communication.

Studying materials and presentations, records of the classes, online entertaining activities, 24/7 support of the organizational team are included.



On-campus winter school is a 2 week educational program at Samara University. The study part consists of lectures and workshops with the leading staff of the university. All on-campus programs consist of numerous excursions including city tour around Samara city, excursion to the aerospace museum, daily evening activities with volunteers.

The visit to laboratories, excursions to the museums, master classes and daily evening cultural program with volunteers are provided.

Airspace Materials and Technologies

The creation of new materials with the required properties ensures progress in aircraft construction, shipbuilding, automotive, nuclear industry, electrical engineering and other (in almost all) industries.

To create a new material is half the battle. The task of making a detail out of it is even more difficult. How to make a part? What kind of equipment should be used? Technology science answers these questions.

Mechanical engineering technology is a whole complex of metalworking processes – machining, stamping, assembly, welding, casting and others. To become a good technologist, you need to know the features of all these processes. Without this knowledge, everything that the designers will do will remain on paper. Within the framework of the international school, students will gain knowledge in many technologies used in the aerospace industry of Russia - such as pulsed magnetic field processing, hybrid, incremental, additive and other technological processes.



**INTERNATIONAL
SCHOOL**



FORMAT

Online

DATES

15-27 January, 2024

APPLICATION DEADLINE

01 December, 2023

CERTIFICATE

2 ECTS e-certificate

TUITION FEE

350\$

SYLLABUS

- Space Impact on Mechanical Properties of Metals
- Advanced Composite Materials in Airframe Constructions
- Smart Manufacturing Using Incremental Sheet Forming
- Materials with Shape Memory
- Special Methods of Sheet Stamping
- Incremental Stamping
- Machining of Materials
- Manufacturing of Body Parts Using Skinny Operations

ENROLLMENT

school.ssau.ru/schools/4

* - tuition fee includes accommodation in the hotel (2-3 students in a room) and 2 time meals (breakfast and lunch).

Production and Testing of Aircraft Engines

Production and Testing of Aircraft Engines School of Samara University is an international project that brings together undergraduate and graduate students from around the world.

The program is aimed at training students in the development, calculation, design and production of aircraft engines and gas turbine power plants. Type of future professional activity of participants of this school is design and creation of aircraft engines.

This short-term program attracts everyone who is interested in studying the problems of creating new types of equipment in aviation, space and engine construction.

In addition, we are pleased to present an interesting program to the students with a visit to the aircraft engine research center and the training airfield of Samara University. The program also includes an entertainment part with tours, ethnographic lectures and museum visits.



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01 December, 2023

CERTIFICATE

2 ECTS e-certificate

TUITION FEE

350\$

SYLLABUS

- Design and Engineering of Aircraft Engines
- Dynamics and Strength of Aircraft Engines
- Aircraft Engine Combustion Chambers
- Theory of Aircraft Engines
- Turbo Machines
- Production Technologies for Aircraft Engines
- Automation and Regulation Gas Turbine Engine Control

ENROLLMENT

school.ssau.ru/schools/18

* - tuition fee includes accommodation in the hotel (2-3 students in a room) and 2 time meals (breakfast and lunch).

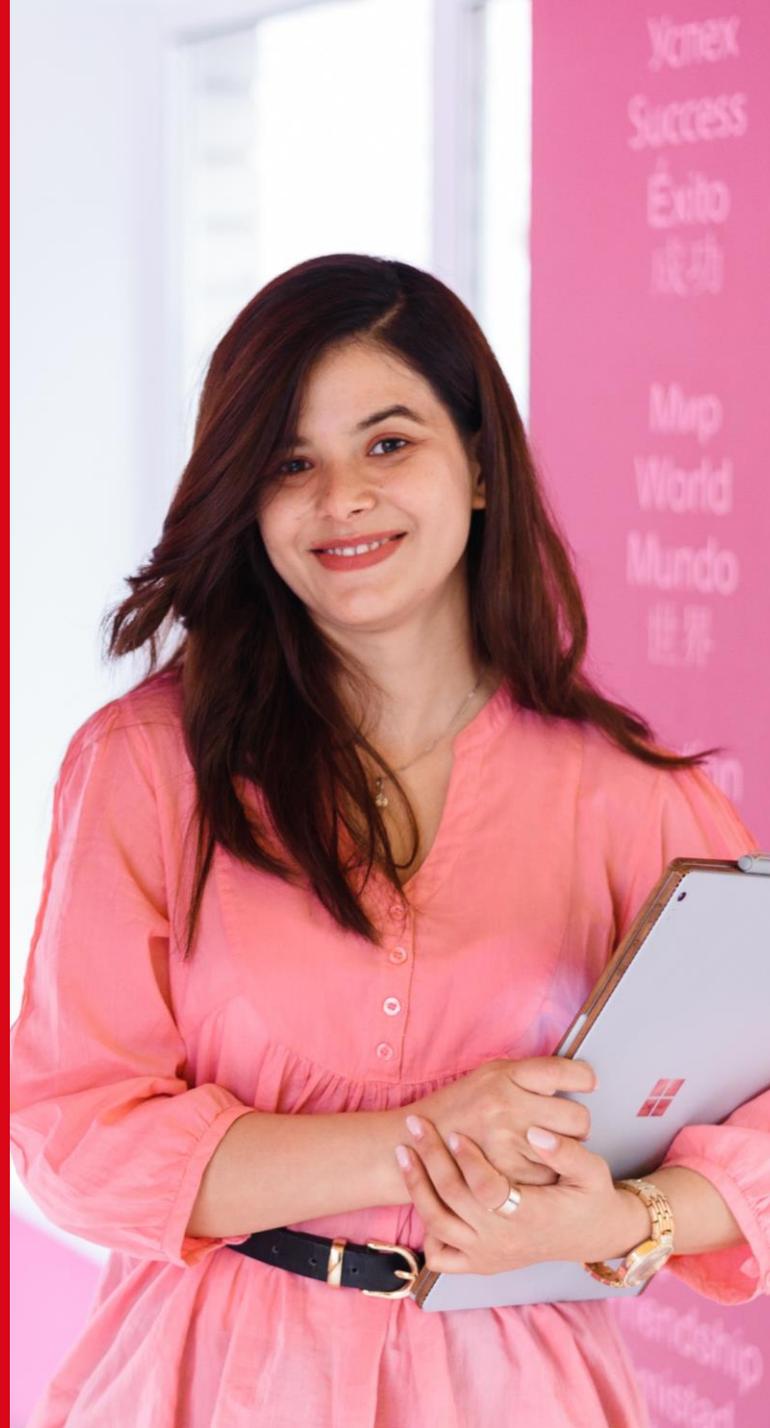
3D Printing Technologies

The program is suitable for students and engineers interested in additive manufacturing for real industrial applications. You will learn 3D modelling and design your own product. You will study how to select 3D printing process and material for a best profit performance. You will be able to drive innovation at your organization or accelerate your career with additive manufacturing!

The school provides the unique opportunity to focus on the additive manufacturing and digital modelling of processes, additive design and manufacturing in Space and Mechanical Engineering.

You will explore each of the commercial AM technologies and understand their principle method of operation, materials compatibility, and application potential.

You will be introduced to the principles of designing parts for AM for each major process, illustrated through a series of instructional examples and see artifacts produced at Samara University.



**INTERNATIONAL
SCHOOL**



FORMAT

On-campus

DATES

23 January – 05 February, 2024

APPLICATION DEADLINE

01 November, 2023

CERTIFICATE

3 ECTS certificate

TUITION FEE*

1,000\$

SYLLABUS

- 📍 Introduction to Additive Manufacturing
- 📍 Additive Manufacturing Processes
- 📍 Digital Modelling
- 📍 Practical Cases and Applications
- 📍 Cost Analysis of Additive Manufacturing
- 📍 3D Printing in Space
- 📍 3D Printing in Mechanical Engineering
- 📍 3D Printing in Social Life

ENROLLMENT

school.ssau.ru/schools/3

* - tuition fee includes accommodation in the hotel (2-3 students in a room) and 2 time meals (breakfast and lunch).

Russian Language and Culture

You will speak Russian after this school! Successful Russian language study is the study with native speakers! Meet native speakers, find out more about Russian culture and Russian people's set of mind. The school is held in English and Russian. Students are divided into groups depending on the knowledge Russian language.

The topics of Russian language classes covers alphabet, consonants and vowels, numeral, greetings and goodbye, basic phrases, professional vocabulary, topics of students' interests etc.

We will take you to play Russian famous games, walk with you along vivid streets and show the most beautiful places of the city, visit Space museum and other exclusive sites of Samara.

Along with language classes, the school offers courses on history and culture of Russia, master classes on making Russian food and souvenirs.



**INTERNATIONAL
SCHOOL**



FORMAT

Online

DATES

15-27 January, 2024

APPLICATION DEADLINE

01 December, 2023

CERTIFICATE

2 ECTS e-certificate

TUITION FEE

290\$

FORMAT

On-campus

DATES

23 January – 05 February, 2024

APPLICATION DEADLINE

01 November, 2023

CERTIFICATE

3 ECTS certificate

TUITION FEE*

1,000\$

SYLLABUS

-  Russian Language
-  History of Russia
-  Russian Traditions
-  Russian Technology
-  2 master classes

ENROLLMENT

school.ssau.ru/schools/8

* - tuition fee includes accommodation in the hotel (2-3 students in a room) and 2 time meals (breakfast and lunch).

High Technology Management

Students with different backgrounds will get new knowledge and skills of hi-tech enterprises' management. During the studies, students will be working on a group hi-tech/digital project.

The core of the program consists in learning modern tools of project management, effective usage of lean manufacturing in high technology companies and researching the pressing issues in management, communication and marketing.

The lecturers and coaches will teach you how to create business plan, how to predict and analyze various risks, how to exercise design thinking and implement it in a project work, how to use agility in solving professional tasks.

Our friendly international schools team, entrepreneurs and mentors will lead the participants throughout the process, thus they can take a maximum of it.



**INTERNATIONAL
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FORMAT

Online

DATES

15-27 January, 2024

APPLICATION DEADLINE

01 December, 2023

CERTIFICATE

2 ECTS e-certificate

TUITION FEE

290\$

FORMAT

On-campus

DATES

23 January – 05 February, 2024

APPLICATION DEADLINE

01 November, 2023

CERTIFICATE

3 ECTS certificate

TUITION FEE*

950\$

SYLLABUS

- Design Thinking
- Marketing
- Risk Management
- Conflict & Negotiations
- Cost Analysis of Additive Manufacturing
- Intellectual Property
- Project Management. Basics of Agility
- Business Models

ENROLLMENT

school.ssau.ru/schools/5

* - tuition fee includes accommodation in the hotel (2-3 students in a room) and 2 time meals (breakfast and lunch).

Soft Skills

Modern craziness is dictating new rules and we should follow the novelty and be flexible. Soft skills are vital bunch of knowledge for here and now regardless of your background. The global lockdown showed us the necessity of harmonious coexistence of flexibility and tranquility and this course will contain the brilliant combination of tools balanced your confidence and competence.

The discipline is filled out with not only pure theoretical knowledge about personal and interpersonal skills and communication, but also with interactive, not stressing but useful tasks, games and other activities.

The main goal of the school is to rocket your personal effectiveness, confidence and leadership giving an essential set of knowledges about communication skills, negotiations, social and emotional intelligence, creative and critical thinking, self-presentation and public speaking.

At the end of this course you will have a real result in the form of brilliant CV for your future job or catchy start-up pitch.



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Online

DATES

15-27 January, 2024

APPLICATION DEADLINE

01 December, 2023

CERTIFICATE

2 ECTS e-certificate

TUITION FEE

250\$

SYLLABUS

-  Conflict & Negotiations
-  Decision Making
-  Communication Support of Business Activity
-  Business Cooperation with Russia
-  Creative Thinking
-  Persuasive Scientific Presentation

ENROLLMENT

school.ssau.ru/schools/11



Partners of Samara University: international schools and online programs (2015-2023)



Northwestern Polytechnical University (China)



Beijing Institute of Technology (China)



Sichuan University (China)



Jilin University (China)



Atma Jaya Yogyakarta University (Indonesia)



Indian Institute of Technology – Delhi (India)



UNIVERSITI TEKNOLOGI MARA

Universiti Teknologi MARA (Malaysia)



UNIVERSITY OF MALAYA

University of Malaya (Malaysia)



INTERNATIONAL SCHOOL



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