

A panoramic view of the Moscow skyline at sunset. The Kremlin's red brick walls and towers are prominent, including the Golden Spire. The city is reflected in the water of the Moskva River, which is crossed by a bridge. The sky is a mix of blue, purple, and orange.

# SUMMER SCHOOL MAI -2022

Online version



# Summer School Content

**2022**

Online summer courses



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**MAI**

# Summer Aviation Engineers



Rector MAI – prof. Mikhail Pogosyan

## 1 3D - school

The main objective of this school is to study the foundations of additive technologies and then level up all the knowledge in professional course. You will get overview technical knowledge about additive manufacturing science for nowadays.

## 2 International quality academy

A special program of additional professorial education that considers aspects of the design and production of aircraft from the point of view of quality on the example of civil aviation advanced products.

## 3 IT&Design University

Special new program for 2022. Designed for engineers and programmers who would like to see system design and manufacturing features from both sides. This program trains the professionals of the future.

**Three programs - only in 2021 - for your choice**

# Schedule of 3D-school

**Day 1 (1<sup>st</sup> of July)** - Receiving logins and passwords to the online education system

## Day 02 (4<sup>th</sup> of July)

**09:30 – Opening Ceremony**

**10:30 – Intro to Computer-Aided Design systems**

**11:00 – Instruments of Part Design**

**12:00 – Software installation**

## Day 03 (5<sup>th</sup> of July)

**09:00 – Design for Additive Manufacturing (DfAM)**

**09:30 – DfAM Workshop**

**11:00 – Dance Class 1**

## Day 04 (6<sup>th</sup> of July)

**09:00 – Pre-processing for Additive Manufacturing**

**10:00 – Q&A Session**

**10:30 – Technology Workshop. FDM**

**11:00 – Technology Workshop. SLA**

**12:00 – Dance Class 2**

## Day 05 (7<sup>th</sup> of July)

**09:00 – Excursion to Innovation Lab**

**09:30 – Design-to-Cost 1**

**10:30 – Design-to-Cost 2**

**11:30 – Break**

**12:00 – Design-to-Cost 3**

**13:30 – Dance Class3**

## Day 06 (8<sup>th</sup> of July)

**09:00 – Modern AM Tech**

**10:00 – Total overview for the course**

**10:30 – Awarding ceremony**

**11:00 – Piano concert of famous Russian Music**

# Schedule of Quality academy

**Day 1 (7<sup>th</sup> of July)** - Receiving logins and passwords to the online education system

## Day 02 (8<sup>th</sup> of July)

**11:00 – Opening Ceremony**  
**11:30 – Introduction to Quality 1**  
**12:00 – Introduction to Production 1**  
**12:30 – Lecture production 2**  
**13:00 – Lecture production 3**

## Day 03 (09<sup>th</sup> of July)

**09:00 – Lecture Quality 2**  
**09:30 – Books for self readings of Quality 3**  
**10:00 – Lecture Quality 4**  
**10:30 – Lecture Quality 5**  
**11:00 – Excursion to Red Square**

## Day 04 (11<sup>th</sup> of July)

**09:00 – Lecture production 4**  
**10:00 – Q&A Session**  
**10:30 – Introduction to Advanced production 1**  
**11:00 – Lecture Advanced production 2**  
**12:00 – Lecture advanced production 3**

## Day 05 (12<sup>th</sup> of July)

**09:00 – Excursion in MAI labs**  
**09:30 – Lecture advanced production 3**  
**10:00 – Lecture advanced production 4**  
**11:00 – Excursion to Winter palace**

## Day 06 (13<sup>th</sup> of July)

**09:30 – Total overview for the course**  
**10:00 – Awarding ceremony**  
**10:30 – Ballet “Swan lake” by The Mariinsky Theatre**

# Schedule of IT&Design University

**Day 1 (12<sup>th</sup> of July)** - Receiving logins and passwords to the online education system

## Day 02 (13<sup>th</sup> of July)

**11:00 – Opening Ceremony**

**11:30 – Need of digital solution**

**Speed of product development**

**12:30 – Introduction to System engineering**

## Day 03 (14<sup>th</sup> of July)

**09:00 – Sport class**

**09:15 – Excursion around Saint Petersburg**

**10:00 – Information technologies in PLM (Cax modules)**

**10:30 – MBSE methodologies. The way for the system development**

**11:00 – Software engineering 1**

**12:00 - Technical management 1**

## Day 04 (15<sup>th</sup> of July)

**09:00 – Sport Class**

**09:15 – System architectures (UML, SysML)**

**10:00 – Q&A Session**

**11:30 – Software engineering 1**

**12:00 – Technical management 2**

**12:30 – Methodology of Design (Hard | Soft skills, Waterfowl)**

## Day 05 (16<sup>th</sup> of July)

**09:00 – Sport class**

**09:15 – Lecture in MAI labs**

**10:00 – Software engineering 3**

**10:30 – MBSE Modelling examples design**

**11:00 – Digital production**

## Day 06 (18<sup>th</sup> of July)

**09:30 – Total overview for the course**

**10:00 – Awarding ceremony**

**11:00 – Russian famous online circus**



**250 USD**

#### Includes

- ✓ 1 Educational program
- ✓ 1 Official certificates
- ✓ Entertainment - education
- ✓ Best professors and practices
- ✓ 24/7 support

**You may take all 3 programs, or just 2 for your choice, or just only 1**

Depend of the number of programs you take, MAI will send to you official certificate for each independent program.

We invite you to spend holidays 2022 in the best Summer school of Russia at MAI