ALAR
Training Center

SUMMER SCHOOL

PRODUCTION AND TESTING OF AIRCRAFT ENGINES

18 July-01 August, 2025

**DO YOU WANT TO LEARN HOW TO PRODUCT AND TEST THE AIRCRAFT ENGINES?
JOIN THIS SUMMER SCHOOL**

ECTS credits: 4.0

SAMARA UNIVERSITY

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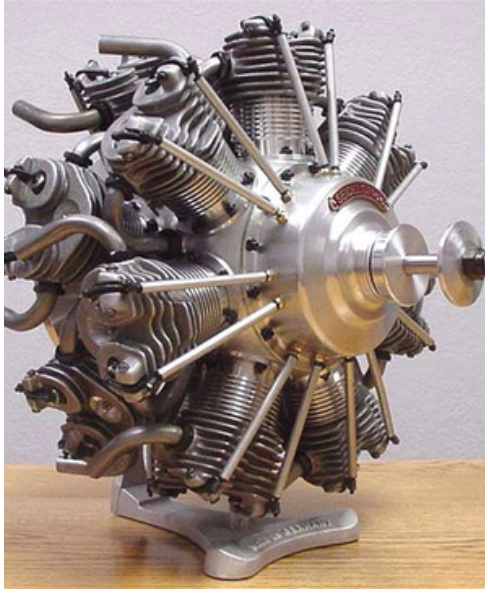

BRIEF DESCRIPTION

• **Turbo-machines**

The process of designing turbo machines for gas turbine engines will be studied theoretically and in practice.

• **Theory of Aircraft Engines**

The principle of operation of gas turbine engines of various types and schemes.

• **Design and Engineering of Aircraft Engines**

Familiarization with the design of aircraft engines. Modernization of aircraft engine components with a design justification for design solutions.

• **Dynamics and Strength of Aircraft Engines**

Calculation of the strength and vibration of engine elements in the ANSYS package.

• **Intensification of Heat Transfer in Engines**

and Their Systems Analysis of the placement of ribs of various shapes, heat transfer, convection. Increasing of the heat transfer coefficient.

• **Aircraft Engine Combustion Chambers**

Features of the organization of the working process of lowemission combustion chambers of gas turbine engines.

And more...

ENROLL NOW

2ND INSTALLMENT

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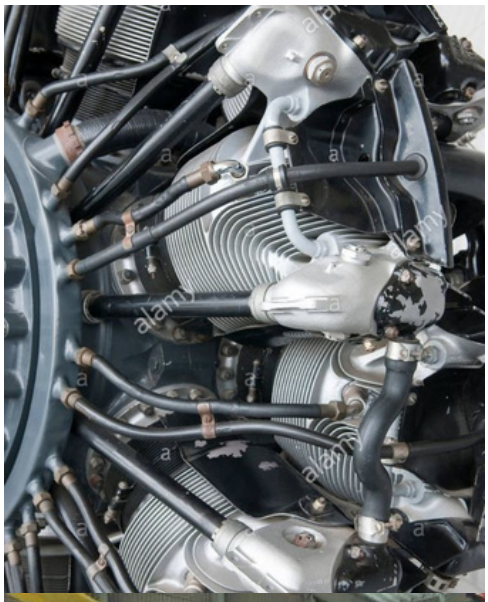

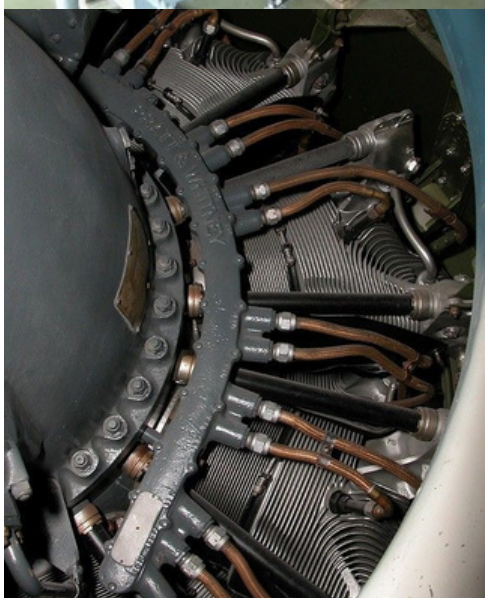

Program dates: 18 July-01 August, 2025
Registration deadline: 13.03.2025

Cost:US$1,670, in two installments:
First installment: US$350 untill March 13th '25
Second installment: US$1,320 untill June 30th '25

Included in cost:
Migrational support for visa, teaching costs (4 hours per day) , Arrival and departure transfer at the Samara airport, Accommodation at the hotel (2-3 students in a room), 2-time meal (breakfast and lunch) , Excursions, tours with transfers, tickets to museums , Social and entertainment activities, Tutor assistance during the stay in Russia , 4.0 ECTS credits Certificate, additional Russian Language virtul course by ALAR Training Center (33h) + Certificate

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

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