



SPLIT SUMMER SCHOOL 2023

COURSE: EXPERIENCE THE RENEWABLES

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Main topics:

- utilisation of renewable sources of energy
- solar energy, wind energy and outdoor air as an energy source
- energy conversion and efficiency
- different technologies, such as: flat plate solar thermal collector, solar dish (CSP), photovoltaic solar collector (polycrystalline, CdTe/CdS thin film), solar fixed system, solar tracker system, outdoor wind turbine (500 W), indoor wind tunnel with wind turbine (80 W), air-to-air heat pump, air-to-water heat pump



Programme structure:

- 5-day course
- theoretical introduction to the main topics
- practical demonstrations, measurements and calculations

Important dates:

Course dates: 04/09/2023 – 08/09/2023

Deadline for application: 01/07/2023

Payment due by: 10/07/2023

Confirmation of the course: 17/07/2023

Price of the course: 266,66 € (tax included)

Programme plan:

Day 1

- Theoretical work – Renewable sources of energy;
Conversion of solar energy into heat (2 hours)

- Practical work – Solar thermal systems (4 hours)

Day 2

- Theoretical work – Conversion of solar energy into
electricity (2 hours)

- Practical work – Solar photovoltaic systems (4
hours)

Day 3

- Theoretical work – Conversion of wind energy into
electricity (2 hours)

- Practical work – Wind turbines operating
parameters

Day 4

- Theoretical work – Working principle of an air
source heat pumps (2 hours)

- Practical work – The operating parameters of air-
to-air heat pump (4 hours)

Day 5

- Theoretical work – Selected chapters on renewable
energy sources (2 hours)

- Practical work – The operating parameters of air-
to-water heat pump (4 hours)

Programme lecturers:

Dr. Zlatko Jankoski, BSc MEng PhD DIC

Tenured College Professor at the University of
Split, University Department of Professional
Studies, Department of Mechanical Engineering,
Split, Croatia.

Croatian Scientific Bibliography

Ivan Vrljičak, Prof. Spec. Mech. Eng.

Lecturer at the University of Split, University
Department of Professional Studies, Department
of Mechanical Engineering, Split, Croatia.

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