

DETAILED PROGRAMME

MONDAY - July 13

08:30 - 09:00 Opening

09:00 - 10:30 Lecture: Prof. Binod GIRI (BTU) - *"Ammonia Combustion for a Sustainable Future"*

11:00 - 12:30 Lecture: Prof. Akihiro HAYAKAWA (Tohoku University) - *Combustion and fuel-ammonia, fundamentals*

12:30 - 14:00 Lunch Break

14:00 - 15:30 Lecture: Hrojve NOVAK (UNIZG) - *Data-driven Forecasting for Sustainable Energy Systems: A Practitioner's Perspective*

Prof. Mario VASAK (UNIZG) - *Optimization and Computational Geometry Relied on Sequential Linearization -- Applications in Sustainable Battery Systems and Water Distribution*

16:00 - 17:30 Lecture: Ninoslav CERKEZ (RIMAC TECHNOLOGY) - *Machine Learning for Battery Cell Aging*

TUESDAY - July 14

09:00 - 10:30 Lecture: Xavier MORISE (TOTAL Energies) - *How TotalEnergies Actually Navigates the Energy Transition*

11:00 - 12:30 Lecture: Prof. Uwe RIEDEL (DLR) - *Core Technological Levers for Industrial Decarbonization*

12:30 - 14:00 Lunch Break

14:00 - 15:30 Student's project presentation - *detailed schedule below*

15:40 - 17:30 Student's project presentation

WEDNESDAY - July 15

09:00 - 10:20 Student's project presentation

10:40 - 12:30 Student's project presentation

12:30 - 14:00 Lunch Break

14:00 - 15:30 Lecture: Prof. Lucy PAO (University of Colorado Boulder) - *Sink or Swim: Modeling and Control of Floating Offshore Wind Turbines*

16:00 - 17:30 Online lecture: Maxime GOUGET (EDF Power Solutions) - *TBD* - [zoom link](#)

17:45 - 18:45 Presentation of the Master's Thesis Process

THURSDAY - July 16

09:00 - 12:00 Dubrovnik Guided Tour

12:30 - 14:00 Lunch Break

14:00 - 15:30 Lecture: Prof. Sandrine AUBRUN (Centrale Nantes) - *The scientific challenges related to the offshore renewable energies*

16:00 - 17:30 Lecture: Asst. Prof. Ninoslav Holjevac & Matija Zidar (UNIZG) - *Power System Bottleneck identification and Optimal Siting and Sizing of Battery Energy Storage Systems for Congestion Mitigation*

Assoc. Prof. Branimir NOVOSELENIK (UNIZG) - *Distributed Power System Coordination via Parametric Optimization and ADMM*

19:00 - 23:00 Ending Dinner