Technische Universität Braunschweig

InES

Moon Ride

MODERN ELECTROCHEMISTRY

FROM FUNDAMENTALS TO ENERGY APPLICATIONS

International and digital course offered by the TU Braunschweig (TU BS) and the University of Rhode Island (URI)

In short video tutorials and live sessions, participants will be taught lecture content that covers both the fundamentals of electrochemical storage systems and details regarding modern batteries.

The lecture content will be accompanied by hands-on materials, group works and an intercultural training. Furthermore, virtual laboratories can be explored in interactive presentations.

Registration untill **11.05.2022** under the following mail address:

nicolas.schlueter@tu-bs.de

Time frame: 23.05.22 – 24.06.22
Contact time is about 4.5 hours / week

Teaching formats

- Live sessions / lectures
- Video tutorials
- Hands-on material
- Groupworks including a digital poster-session
- Virtual Lab-tours
- Practical lab-courses via remote access
- Intercultural training

Target audience

Graduate and PhD students with an interest in batteries and electrochemical energy storage

Course language: English

3 CP for students from URI (for TU BS students no CP can be given at the moment)

Further information and announcements can be found at:
www.tu-braunschweig.de/en/ines/teaching/modern-electrochemistry

Topics covered

- Practical aspects of energy storage
- Historical aspects of batteries
- Basic electrochemistry
- Fundamentals of batteries
- Battery types and applications
- Fabrication of batteries and material synthesis
- Various characterization techniques

Lectures

Prof. Dr.-Ing. Daniel Schröder
TU Braunschweig (InES)

Prof. Dr. Arijit Bose
University of Rhode Island

Dr. Nicolas Schlüter
TU Braunschweig (InES)

Funded by the DAAD - IVAC program