DAAD–Online-School 2020
26. October to 20. November

smARTerials
Smart Artificial Materials
digitally engineered
DAAD–Online-School 2020
26. October to 20. November
TU Crete, Greece (TUC) & TU Braunschweig, Germany (TUBS)

Invite students from Informatics, Civil Engineering and Mechanical Engineering to the 2020 DAAD-Online-School for **Smart Artificial Materials – digitally engineered.**

The DAAD-Online-School will extend over a period of **4 weeks** with sessions of **3 hours**. Each week will have **2–3 days** with a session in the afternoon from **4 pm to 7 pm TUC**.

### Program

**Acoustics**

Prof. Sabine C. Langer (TUBS)
- Sound & Vibration
- Tailoring Acoustic Materials (Dr. -Ing. Tobias Ring)
- Acoustic Metamaterials (Aidin Nojavan, Lukas Outzen)

**Additive Manufacturing (AM)**

Dr.-Ing. Hagen Watschke (TUBS)
- Design for Additive Manufacturing (DfAM)
- Potentials and restrictions of AM (Sebastian Kuschmitz)
- Rapid Manufacturing (RM) (Raphael Freund)

**Simulation**

Prof. Georgios Stavroulakis (TUC)
- Data-driven neutral network, direct and inverse analysis
- Digitizing Cultural Heritage: Technologies and Case Studies (Prof. E. Maravelakis HMU)
- Shunted piezocomposites (Dr. G. Tairidis)
- FEM for the estimation of insertion loss of noise barriers (Dr. N. Papadakis HMU)
- The effect of Topology Optimization in 3D printed furniture design process (Dr. I. Ntintakis HMU)
- Cognitive manufacturing, the role of process modelling and simulation (Asst. Prof. Arampatzis)

**Mechanics**

Prof. Markus Böl (TUBS)
- Biomechanics
- Experimental methods, especially related to biomechanics
- Material model development

**Software Development**

Dr.-Ing. Jan Linxweiler (TUBS)
- Research Software Engineering (RSE)
- Software Development Practices (SOLID Principles)
- Software Design Patterns
- Test Driven Development (TDD)

**Workshop–Program**

Wasiliki Sidiropoulou & Dr.-Ing. Jens-Uwe Böhnsen (TUBS)
- Presentation of TU Braunschweig
- Erasmus Program
- DAAD Programs
- Intercultural Exchange

### Registration

If you are a student from the **Technical University of Crete** the registration will be done by: Prof. Georgios Stavroulakis and Dr. Maria Bakatsaki. (mariab@isc.tuc.gr & gestavr@dpem.tuc.gr)

If you are a student from the **Technical University of Braunschweig** the registration will be done by: Merle Sülfow. (m.suelflow@tu-braunschweig.de)

There will be space for about 30 students to partake in this DAAD–Online–School.