

Summer School on “Engineering for Sustainability in Lightweight Systems”
University of Patras, 23-26 September, 2025

Tuesday 23 rd September	Wednesday 24 th September	Thursday 25 th September
Performance	Environmental Impact and Circularity	Social Impact and Public Acceptance
Welcome & Registration (08:45-09:15) UPAT secretariat	SDGs and UN goals (09:00-10:30) Dr. Andre Lindner (TUD) Ms. Maike Heitkamp (TUD)	ERC project presentation (9:00-09:30) Prof. George Kampitsis (UPAT)
Opening Remarks & Overview (09:15-09:30) Prof. George Lampeas (UPAT) Prof. Pantelis Nikolakopoulos (UPAT) Ms. Maike Heitkamp-Mai (TUD)		Social Life Cycle Assessment: Measuring Social Impact Across Product Life Cycles (09:30-11:00) Dr Tatiana Vakhitova (ANSYS Inc.) Mr. Piers Ireland (ANSYS Inc.)
Approaches for a circular design – the basis for value creation (09:30-10:00) Prof. Maik Gude (TUD)		
Engineering for Sustainability (10:00-10:30) Prof. Angelos Filippatos (UPAT)		
Coffee Break (10:30-11:00) / Poster Session		Coffee Break (11:00-11:30)
Performance (cont.)	Environmental Impact and Circularity (cont.)	Projects on Sustainability
Composite materials for high performance lightweight systems (11:00-11:30) Prof. Maik Gude(TUD) Dr. Anja Winkler (TUD)	Understanding Life Cycle Assessment (LCA) (11:00-12:00) Dr. Elias Koumoulos (IRES) Dr. Myrto Nikolakopoulou (IRES)	Strategic Perspectives Towards a Sustainable University (11:30-12:00) Ms. Maike Heitkamp (TUD)
Enhanced sustainability by grading of fibre reinforced structures (11:30-12:00) Dr. Anja Winkler (TUD)		Common research projects of UPAT and TUD – Energy Sector (EURECOMP Project) (12:00-12:30) Robert Kupfer (TUD)
The Future of Metals 3D Printing (12:00-12:30) Prof. Efthymios Polatidis (UPAT)	Hands-on workshop on LCA – Part A (12:00-13:00) Robert Kupfer (TUD)	Common research projects of UPAT and TUD – Maritime Projects (12:30-12:50) Mr. Thomas Kalampoukas (UPAT)
Sustainable design by conscious decision making in product design (12:30-13:00) Dr. Paul Hoffeins (TUD)		The future of long-range flights – EXAELIA project (12:50-13:10) Dr. Dionysios Markatos (UPAT)
Lunch Break (13:00-14:00)		Lunch Break (13:10-14:00)
‘Break the Ice’ Session (14:00-15:30) All	Hands-on workshop on LCA – Part B (14:00-16:00) Robert Kupfer (TUD)	Wrap-up and Certificates (14:00-15:00) Prof. Angelos Filippatos (UPAT) Prof. Maik Gude (TUD)
Welcome Dinner & Networking (19:45) Sponsored by M2BRIDGE		

