

Summer School on “Engineering for Sustainability in Lightweight Systems”							
Monday 22 <sup>th</sup> September		Tuesday 23 <sup>th</sup> September	Wednesday 24 <sup>th</sup> September	Thursday 25 <sup>th</sup> September	Friday 26 <sup>th</sup> September	Saturday 27 <sup>th</sup> September	
Summer School attendees arrival	Morning Session	Performance	Environmental Impact and Economic Competitiveness	Social Impact and Public Acceptance	Excursion (sponsored by M2BRIDGE)	Summer School attendees departure	
		Welcome & Registration (08:45-09:15) <b>UPAT secretariat</b>	SDGs and UN goals (09:00-09:30) <b>Dr. Andre Lindner (TUD)</b> <b>Ms. Maike Heitkamp (TUD)</b>	ERC project presentation (9:00-09:30) <b>Prof. George Kampitsis (UPAT)</b>			
		Opening Remarks & Overview (09:15-09:30) <b>Prof. George Lampeas (UPAT)</b> <b>Prof. Angelos Filippatos (UPAT)</b>	Understanding Life Cycle Assessment (LCA) (09:30-10:00) <b>Dr. Elias Koumoulos (IRES)</b>	Social Life Cycle Assessment: Measuring Social Impact Across Product Life Cycles (09:30-10:30) <b>Dr Tatiana Vakhitova (ANSYS Inc.)</b> <b>Mr. Piers Ireland (ANSYS Inc.)</b>			
		Approaches for a circular design – the basis for value creation (09:30-10:00) <b>Prof. Maik Gude (TUD)</b>	Hands-on workshop on LCA (10:00-10:30) <b>Robert Kupfer (TUD)</b>				
		Engineering for Sustainability (10:00-10:30) <b>Prof. Angelos Filippatos (UPAT)</b>					
		Coffee Break (10:30-11:00)					
		Performance (cont.)	Circularity	Projects on Sustainability			
		Composite materials for high performance lightweight systems (11:00-11:30) <b>Prof. Maik Gude(TUD)</b> <b>Dr. Anja Winkler (TUD)</b>	Hands-on workshop on LCA (11:00-11:30) <b>Robert Kupfer (TUD)</b>	Common research projects of UPAT and TUD – Energy Sector (EURECOMP Project) (11:00-11:30) <b>Robert Kupfer (TUD)</b>			
		Enhanced sustainability by grading of fibre reinforced structures (11:30-12:00) <b>Dr. Anja Winkler (TUD)</b>	Circular Economy: Shaping a Sustainable Future (11:30-12:00) <b>Ms. Ligeia Paletti (DLR)</b>		Common research projects of UPAT and TUD – Maritime Projects (11:30-12:00) <b>Mr. Thomas Kalampoukas (UPAT)</b>		
		Lunch Break (12:00-13:00)					
	Evening Session	Sustainable design by conscious decision making in product design (13:00-13:30) <b>Dr. Paul Hoffeins (TUD)</b>	Interactive Session on Circular Economy (13:30-14:30) <b>Ms. Ligeia Paletti (DLR)</b>	The future of long-range flights – EXAELIA project (13:00-13:30) <b>Dr. Dionysios Markatos (UPAT)</b>			
		The Future of Metals 3D Printing (13:30-14:00) <b>Prof. Efthymios Polatidis (UPAT)</b>		Wrap-up and Certificates (13:30-14:00) <b>Prof. Angelos Filippatos (UPAT)</b> <b>Prof. Maik Gude (TUD)</b>			
		Students Poster Session & Competition (14:00-15:00)					
		Welcome Dinner & Networking					