

3rd International Summer School on Fatigue and Damage Mechanics of Composite Materials

Vicenza, July 4-8, 2022

Summer School Program

	Monday, July 4th 2022	Tuesday, July 5th 2022	Wednesday, July 6th 2022	Thursday, July 7th 2022	Friday, July 8th 2022
9.15-10.45	Course opening. Experimental techniques for damage analysis	Advanced modelling: crack initiation	Modelling strategies for structures with (manufacturing) defects	Health monitoring: historical perspective and basic principles	Applications – Exercises and procedures for design and implementation of the methodologies discussed during the course
10.45-11.15	Break	Break	Break	Break	Break
11.15-12.45	Fatigue damage mechanisms: transverse cracking, delamination, fibre failure	Advanced modelling: crack density evolution and delamination	Advanced modelling: fibre failure	Health monitoring: modelling and application	Case histories and applications in automotive industry
12.45-14.15	Lunch	Lunch	Lunch	Lunch	Lunch
14.15-15.45	Stress analysis tools for damage mechanics	Advanced modelling: damage-related stiffness degradation	Bonded joints: stress analysis and experimental evidences	Structural batteries	Case histories and applications in wind energy industry
15.45-16.15	Break	Break	Break	CSTE workshop	Break
16.15-17.45	Modelling strategies and homogenised fatigue modelling	Effects of (manufacturing) defects on damage evolution	Fatigue of bonded connections: modelling strategies	Social event	Final assessment and closing remarks

