Chair of Materials Science and Testing of Plastics

About this organisation

Machine translation

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The Chair of Materials Science and Testing of Plastics sees itself as an integral and central part of the Department of Plastics Technology at the University of Leoben, which acts as a link between material synthesis and modification on the one hand and plastics and composite material processing as well as construction and component design on the other.

Determination of morphology and composition using stateof-the-art methods. Mechanical behaviour under complex stress conditions (mechanical loads, temperature, media). Fracture mechanics Establishment of material laws, failure criteria and service life modelling

Schimplhofstrasse 41a 8700 Leoben Austria Austria www.kunststofftechnik.at



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a









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Chair of Materials Science and Testing of Plastics

About this organisation				
Main areas covered				
Infrastructure	Structural analysis, Mechanical analysis, Thermal analysis			
Certifications				
Keywords				
Memberships				

Overview of lightweighting expertise Machine translation This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Offer Products Materials Services & consulting Training, Consulting, Testing and trials, Funding, Standardisation, Validation, Simulation, Technology transfer

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Overview of lightweighting expertise			
Machine translation			
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	Research	N Development	Manufacturing & Supply
Field of technology			
Design & layout			
Functional integration Material functionalisation	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation Crash behaviour, Life-cycle analysis, Structural mechanics, Materials, Reliability validation	✓	✓	
Plant construction & factory automation			
Recycling technologies Downcycling, Recycling, Upcycling	✓	✓	
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining Adhesive bonding	✓	✓	
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Material **Biogenic materials** Bioplastics, Biocomposites Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Nanocomposites, Natural fibre reinforced plastics (NFRP), Laminates, Particulate composites **Fibres** Aramid fibres, Glass fibres, Carbon fibres, Metal fibres, Natural fibres Functional materials Metals **Plastics** Thermoset plastics, Elastomers, Thermoplastics Structural ceramics (Technical) textiles

Contacts

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