

About this organisation

Machine translation

This profile has been machine-translated based on data provided in German.

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 state-of-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
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www.kunststofftechnik.at



WERKSTOFFKUNDE UND
PRÜFUNG DER KUNSTSTOFFE

Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a



About this organisation

Main areas covered Material characterisation, Testing technology, Material models, Reliability predictions

Infrastructure Structural analysis, Mechanical analysis, Thermal analysis

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Materials	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Funding, Standardisation, Validation, Simulation, Technology transfer	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
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	✓	✓	
<i>Plant construction & factory automation</i>			
Recycling technologies Downcycling, Recycling, Upcycling	✓	✓	
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
Joining Adhesive bonding	✓	✓	
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & 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	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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