

Deggendorf Institute of Technology

kunststoffcampus bayern - Technology and Study Centre Weißenburg

About this organisation

Machine translation

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

We are a project of two universities. Ansbach University of Applied Sciences is responsible for the study centre, including the part-time Applied Plastics Technology course. The Deggendorf Institute of Technology operates the Plastics Technology Centre (e.g. testing of components under dynamic conditions and variable, particularly low, temperatures, surface treatment using plasma, weathering and damage analyses using optical and SEM microscopy).

We are mainly active in the field of testing. Our hexapod system is not only able to simulate realistic vehicle movements in the laboratory, but can also simulate climatic influences (-40 to +80 °C) by means of a temperature overlay.

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Bavaria
Germany
www.kunststoffcampus-bayern.de



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a

Main areas covered

Dynamic studies with hexapod system, Determine temperature influences, Temperature shock tests, Plasma treatment and coating, Low temperature tests (-40 °C)

Infrastructure

Hexapode temperature oven, Plasma system Digital microscope, Climate chamber Weathering, 2K injection moulding machine (1300 kN), Laboratory extruder

Certifications

Testing according to DIN 17025 possible

Keywords

Hexapod dynamics low temperature, Weathering Flammability tests, Plasma coating, Plasma treatment, Material testing Component testing

Memberships

Overview of lightweighting expertise

Machine translation

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| | Research | Development | Manufacturing & Supply |
|---|----------|-------------|---------------------------|
| Offer | | | |
| Products Parts and components, Systems and end products, Materials | ✓ | ✓ | |
| Services & consulting Training, Consulting, Testing and trials, Prototyping, Validation, Technology transfer | ✓ | ✓ | ✓ |
| 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, Environmental simulation, Materials analysis, Destructive analysis | | ✓ | ✓ |
| Modelling and simulation Loads & stress, Optimisation, Processes, Materials, Reliability validation | | ✓ | ✓ |
| <i>Plant construction & factory automation</i> | | | |
| Recycling technologies Recycling, Upcycling | ✓ | ✓ | |

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|---------------------------|
| Manufacturing process | | | |
| <i>Additive manufacturing</i> | | | |
| Coating (surface engineering) Plasma process, Others: null | ✓ | ✓ | |
| <i>Fibre composite technology</i> | | | |
| <i>Forming</i> | | | |
| <i>Joining</i> | | | |
| <i>Material property alteration</i> | | | |
| Primary forming Extrusion, Injection moulding | ✓ | ✓ | |
| <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 | | ✓ | |
| Cellular materials (foam materials) | | | |
| Composites | | | |
| Fibres | | | |
| Functional materials | | | |
| Metals | | | |
| Plastics | | | |
| Elastomers, Thermoplastics | ✓ | ✓ | |
| Structural ceramics | | | |
| (Technical) textiles | | | |

Contacts

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Contacts

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Technical overall manager

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