

### Academic Staff



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Ceramics and Nano technology



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Extractive metallurgy, Recovery of Valuable Metal from Electronic Wastes, Rubber Composites



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Materials and Metallurgical Engineering, Metal Casting, Metal Coatings



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Metallurgical and Materials Engineering, Materials Synthesis, Nano- materials



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Recycling Materials for Construction Material Products



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Surface Engineering, PVD, CVD, Sol-gel Coatings, Self-cleaning Surface

### Research Area

#### Metal Processing

- Casting (semi-solid metal forming)
- Welding and joining (liquid and solid state welding, friction stirred welding, diffusion joining)
- Atomization of melts
- Heattreatment
- Mechanical properties
- Metal materials for railway

#### Nanomaterials Technology

- Mechanical, thermal, electronic and optical properties of nanomaterials
- Nanostructured thin films and coatings
- Synthesis methods for nanostructures such as graphene
- Functional Nanomaterials such as photocatalysts, photo-thermo-electro-chromic materials

#### Rubber and Polymer Composites

- Rubber compounds and composites
- Rubber forming
- Rubber for medical application
- Smart/Intelligent rubber composites
- Composites from recycled polymers and rubberwood
- Mechanical, electrical properties

## Ceramic Materials

- Synthesis methods and characterization
- Structural ceramics
- Carbon-based materials
- Transformation of industrial waste to ceramic materials
- Ceramic matrix composite materials (CMCS)
- Ceramic coatings (flat surface and inside tubes)
- Physical, mechanical and thermal properties
- Geopolymers
- Glasses
- Refractories

## Engineering Materials

- Coatings and surface engineering
- Materials characterization
- Green building materials
- Materials from wastes