



**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Accredited 'A' Grade by NAAC | Approved by AICTE



TRENČIANSKA UNIVERZITA  
ALEXANDRA DUBČEKA V TRENČÍNE

Centre for Nanoscience and Nanotechnology, Centre of Excellence for Energy Research, Sathyabama, India  
& FunGlass Research Centre, TnUAD, Slovakia

**Jointly Organizing**

2<sup>nd</sup> International Conference on

**Advancements in Materials Science and Technology**

**(iCAM-2022)**



**November 2–4, 2022**

## Thematic Areas

01

ENERGY

- Solar Photovoltaics and Solar Thermal
- Batteries and Supercapacitors
- Photocatalysis and Electrocatalysis
- Solid Oxide Fuel Cells
- Thermoelectric
- Biofuels

02

GLASS-CERAMICS

- Transparent glass-ceramics
- Glass-ceramic compositions
- Applications of glass-ceramics
- Dental glass-ceramics
- Bioactive glass-ceramics
- Glass crystallization

03

SURFACE ENGINEERING

- Coatings and Thin Films
- Corrosion and Erosion
- Thermal Barrier Coatings
- Optical Coatings
- Laser Texturing
- Laser Modification

04

SENSORS

- Chemo sensors
- Biosensors
- Gas Sensors
- Electrochemical Sensors
- Wearable Sensors
- Piezo Sensors

05

FUNCTIONAL MATERIALS

- Crystal Growth
- Nanocomposites
- Carbon-Carbon Composites
- Shape Memory Alloys
- Magnetic Materials
- Biomaterials
- Ceramics and Polymers
- Photo/Electrochromic

06

PROCESS AND MECHANICAL BEHAVIOR

- Metal, Alloys and Superalloys
- Welding and Joining
- Additive Manufacturing/3D printing
- Tribology of Materials
- Coatings Tribology
- Bio- and Tribo-Corrosion
- Bio tribology
- Nanomechanical Properties
- Implants and Coatings

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## Call us

+91-9345304239

+91-9941655429



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icam@sathyabama.ac.in

webinarsist@gmail.com