

International Workshop on

Smart Materials for Biomedical Applications



SMARTBIO'25

Departments of Physics & Chemistry
School of Advanced sciences (SAS)



DEC 16-20, 2025 **VIT-AP University | INDIA**

ONLINE

About the workshop

The International Workshop on Smart Materials for Biomedical Applications 2025 is a five-day online event bringing together researchers, scientists, and industry experts to explore cutting-edge advances in materials, devices, and technologies for healthcare. The workshop will cover nanomaterials, nanocomposites, coatings, and functional materials for diagnostics, therapeutics, sensing, and regenerative medicine. Sessions will highlight innovative biosensors, smart drug delivery systems, bionterfaces, tissue engineering scaffolds, and wearable/implantable devices. Discussions will also address artificial intelligence, biocompatibility, regulatory aspects, and future directions. This event aims to foster collaboration and knowledge exchange, bridging fundamental research and clinical translation in biomedical smart materials.

Themes of the workshop

1. Smart Nanomaterials for Biomedical Applications
2. Functional Materials for Diagnostics and Therapeutics
3. Surface Modification & Coating Materials
4. Sensors and Biosensing Technologies
5. Drug Delivery & Therapeutic Platforms
6. Tissue Engineering & Regenerative Medicine
7. Magnetic & Photonic Technologies in Biomedicine
8. Wearable, Implantable & Bioelectronic Devices
9. Artificial Intelligence, Modeling & Data in Smart Materials
10. Translational Research, Safety & Regulations

Registration



<https://tinyurl.com/5x77sk7k>

Program highlights

- Keynote Lectures by eminent scientists and clinicians on smart materials in healthcare
- Technical Sessions covering nanomaterials, coatings, sensors, drug delivery, and regenerative medicine
- Industrial Talks highlighting translational research, commercialization, and emerging biomedical technologies
- E-Certificate will be issued

Website: [SMARTBIO' 25](https://tinyurl.com/5x77sk7k)

Call for Papers

We are pleased to invite researchers, academicians, clinicians, industry professionals, and young scholars to contribute original research papers, reviews, and case studies to the International Workshop on Smart Materials for Biomedical Applications 2025 (SMARTBIO-2025). For abstract template and submission, follow the link here.

[Abstract Submission Link](#)

Important Dates

- Abstract Submission Opens: **Sep. 25, 2025**
- Abstract Submission Deadline: **Nov. 10, 2025**
- Notification of Acceptance: **Nov. 20, 2025**
- Publication details: **Will be updated soon**

Abstract submission



Registration details

Participant type	Early Bird Registration* (up to 30th November 2025)	Regular Registration* (From 1st December 2025)
Students (UG, PG, Ph.D)	500	750
Faculty, Scientist, Postdoc	750	1000
Industry	2000	2500
Foreign participants	25 USD	30 USD

*The registration fee is non-refundable. An additional 18% GST is applicable

Convenors

- Dr Prabhakaran Thandapani, Physics, SAS, VIT-AP | 9488138153
- Dr Naga Prasad P, Chemistry, SAS, VIT-AP | 9490748304
- Dr Manmadharao Banki, Physics, SAS, VIT-AP | 9182116771

Organizing Secretaries

- Dr Senthil K, Physics, SAS, VIT-AP
- Dr Muthu Prabhu S, Chemistry, SAS, VIT-AP
- Dr Nallamuthu S, Physics, SAS, VIT-AP
- Dr Muneeswaran M, Physics, SAS, VIT-AP
- Dr V V Sreenivasu M, Chemistry, SAS, VIT-AP
- Dr Bibhab Bandhu Majumdar, Chemistry, SAS, VIT-AP

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For more details please visit our event website: [SMARTBIO' 25](#)

