

ENSAM CASABLANCA, FS BEN M'SIK AND MAMS ORGANIZE

2nd Seminar on Materials and Industrial Innovation

December 11-12 2025

Casablanca, Morocco



Biomaterials in the Digital Age : Pathway to Medical Innovation

Presentation & Objectives

The second edition of the seminar aims to bring together researchers, engineers, healthcare professionals, and industry experts to explore the emerging synergies between materials science and artificial intelligence within the health sector. The event will highlight how intelligent materials, nanotechnology, and AI-driven modeling are transforming biomedical devices, diagnostics, and personalized medicine.

TOPICS INCLUDE BUT ARE NOT LIMITED TO :

- Design and Developpement of Biocompatible Materials
- Materials Informatics in Biomedical Engineering
- Contribution of AI to the Development and Optimization of Healthcare Materials
- Smart and Stimuli-Responsive Materials
- Nanomaterials for Medical Applications
- Bioactive and Regenerative Materials
- Additive Manufacturing and AI-Guided Material Selection
- Smart Materials for Embedded Sensing in Medical Devices
- Surface Engineering and Functional Coatings
- Tissue-Mimicking and Biomimetic Materials
- Material Degradation and Lifetime Prediction

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CONTENT

- ✓ Presentations by industry partners and research scientists labs
 - Latest advancements in materials science and artificial intelligence
 - Real-world applications in biomedical devices, implants, and diagnostics
- ✓ Industry & Research Showcase
 - Presentations by industrial partners and research labs
 - Case studies on AI-driven materials development and smart health technologies
- ✓ Oral presentations and a poster session by Ph.D. students, postdocs, and researchers
- ✓ Expert Roundtable Discussions
 - **Topic : Contribution of AI in the design and optimization of new biomaterials.**
- ✓ Implement a training, support, monitoring, and advisory plan for our doctoral students and young doctors in the field of materials sciences.
- ✓ Hands-On Workshop

CALL FOR ABSTRACTS

- **Full abstract submission: 19/10/2025**
- Notification of acceptance: **23/11/2025**