Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu

Institute of Biotechnology

SHORT TERM COURSE (STC)
(9th December - 15th December 2026)

NANO-BI NEXUS 2026

From Lab Discovery to Industrial Impact for Viksit Bharat @2047

Science, Innovation, Sustainability for a Better Tomorrow



Course Director:
Dr. R. K. Salgotra
(Head and Professor)
Institute of Biotechnology, SKUAST-J, Chatha-180009, Jammu
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Course Co-ordinator:
Dr. Aakriti Aggarwal
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A One-Week Immersive Learning Experience
Learn. Build. Compete. Innovate.

WHY THIS COURSE?

Nanotechnology and biotechnology are transforming healthcare, agriculture, advanced materials, sustainability and manufacturing. But tomorrow's innovations need more than theory – they need hands-on skills, digital tools, industry exposure and the confidence to turn ideas into real-world solutions.

This course will equip you with:

- Hands-on Learning
- Industry Exposure
- Innovation Mindset
- Sustainability Focus

PROGRAM TOPICS & HANDS-ON SESSIONS

- ✓ Biotechnology
- ✓ Agricultural waste-to-nanotechnology
- ✓ Experimental Design (with software training)
- ✓ 3D–4D printing (with software training)
- ✓ Data Analysis (with software training)
- ✓ Nanomedicines
- ✓ Modelling and simulation of nanomaterials (with software training)
- ✓ All sessions will be accompanied by real-time videos.

WHO CAN PARTICIPATE?

PG students | Faculty | Researchers | Young Innovators (including UG)

SPECIALLY RELEVANT FOR PARTICIPANTS FROM:

- ✓ Biotechnology
- ✓ Agriculture
- ✓ Engineering
- ✓ Nanotechnology
- ✓ Horticulture
- ✓ Veterinary Science
- ✓ Pharmacy
- ✓ Life Sciences
- ✓ Allied Health Sciences
- ✓ Other relevant disciplines

THE LEARNING JOURNEY

01 Discover (Where is NanoBio Heading?) → **02 Design** (Can you predict the solution?) → **03 Simulate** (Can you predict what will happen?) → **04 Experiment** (Optimise (And Innovation) and Improvement)

From Idea → Design → Data → Device → Industry

WHAT WILL YOU TAKE HOME?

- Hands-on Training
- Industry Exposure
- Innovation & Entrepreneurship Mindest
- Networking Opportunities
- Certificate of Participation
- Digital Skills (Tools & Software)

INTER-FACULTY STUDENT COMPETITIONS

1. AI vs SCIENTIST CHALLENGE

(Who solves the NanoBio problem better? Human intelligence vs. AI-assisted problem solving.)

2. NANOBIO SHARK TANK

Solve a real-world problem and develop a NanoBio startup idea.

3. FUTURE NEWS: NANOBIO 2047

Create a 3-5-minute news broadcast. Explain the underlying science accurately.

4. NANOBIO FASHION CHALLENGE

Design a wearable NanoBio technology with fashion, sensors, health monitoring, etc.

Rewards for winners!!

APPLICATION AND SELECTION

Applications are invited through **Google Form link** given below and selection will be made on the first come first serve basis.

REGISTRATION FEES*

Young innovators (including UG) (only competition)	₹ 250/-
PG students	₹ 1000/-
PhD scholars	₹ 1000/-
Faculty	₹ 2000/-

MODE OF PAYMENT*

UPI / Bank Transfer / NEFT / RTGS / Demand Draft

Account Number: **1235040500000031**
IFSC Code: **JAKAOEAURSP**

IMPORTANT DATES

Last date for receipt of applications: **4th December 2026**

Intimation to the selected candidates: **7th December 2026**

CONTACT PERSON & ADDRESS FOR CORRESPONDENCE

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Don't just learn... about the future... Build it!