

WORKSHOP ON HANDS ON TRAINING ON "ANIMAL CELL CULTURE AND BIOMATERIAL CYTOCOMPATIBILITY"

10th-11th April, 2026

Venue: Department of Biotechnology and Medical
Engineering, NIT Rourkela



**DEPARTMENT OF BIOTECHNOLOGY
AND MEDICAL ENGINEERING**

**NATIONAL INSTITUTE OF
TECHNOLOGY ROURKELA**

ORGANIZING COMMITTEE

PATRON

Prof. K. Umamaheshwar Rao
Director, NIT Rourkela

PROJECT HEAD

Prof. Swadesh Kumar Pratihar
Dean (SRICCE)

CHAIRMAN

Prof. Devendra Verma, HoD, BM
HOD-Department of Biotechnology and
Medical Engineering

CO-ORDINATORS

Prof. Amrita Singh
Assistant Professor, Department of Biotechnology
and Medical Engineering

Prof. Prasoon Kumar
Assistant Professor, Department of Biotechnology
and Medical Engineering

Address for Communication:

Dr. Amrita Singh
Department of Biotechnology and Medical
Engineering, National Institute of Technology
Rourkela, Odisha-769008.
Contact No - 8728829637
Email: singham@nitrkl.ac.in

CONTACT DETAILS

Dr. Amrita Singh: +91 8728829637
Dr. Prasoon Kumar: +91 8105648520

ABOUT THE WORKSHOP

This intensive hands-on workshop is designed to provide participants with fundamental and advanced practical skills in animal cell culture techniques and evaluation of biomaterial cytocompatibility, which are essential in the fields of tissue engineering, regenerative medicine, drug discovery, and biomedical device development. Participants will gain real laboratory experience in aseptic handling, cell maintenance, and viability assessment, along with exposure to standard cytocompatibility assays used to evaluate biomaterials for biological applications. The workshop bridges the gap between theoretical knowledge and practical application, enabling students, researchers, and professionals to develop competencies required for academic research and industry settings.

COURSE CONTENT

- Fundamentals of biomaterials for biomedical applications, including classification, properties, and selection criteria
- Hands-on training in material synthesis techniques for biomedical applications
- Evaluation of cell viability, proliferation, and morphology on biomaterial scaffolds
- Understanding translational aspects of biomaterials in healthcare and medical devices

ABOUT NIT ROURKELA

The National Institute of Technology Rourkela (NIT Rourkela), formerly known as the Regional Engineering College until its renaming on 26th June 2002, is a premier government-funded institution dedicated to excellence in Engineering, Science, and Technology. Located in the steel city of Rourkela, Odisha, India, it is one of the 31 National Institutes of Technology in the country and has been recognized as an Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Rourkela holds prestigious rankings, including 13th in the NIRF Rankings 2025 for Indian Engineering Universities, 396th in the QS Asia University Rankings 2026, 180th in the QS World University Sustainable Rankings 2026 (Asia region), and within the 601–800 band in the Times Higher Education World University Rankings (Engineering) for 2025–26. The institute's mission is to become an internationally acclaimed centre of learning, serving as a beacon of knowledge and expertise for society while establishing itself as a preferred destination for undergraduate and postgraduate studies

ABOUT THE DEPARTMENT

The Department of Biotechnology and Medical Engineering, established in 2007 at NIT Rourkela, serves as a multidisciplinary hub for cutting-edge research and education at the interface of biological systems, engineering, and healthcare innovation. Over the years, the department has built a thriving ecosystem of translational research and technology

development, committed to transforming scientific insights into realworld healthcare and environmental solutions. With over 1,600 peer-reviewed publications, more than 100 sponsored projects funded by leading agencies such as DBT, DST, SERB, and ICMR, and five patents filed or granted, the department exemplifies excellence in high-impact research. The department is home to a highly qualified faculty, active research groups, and modern laboratories that support cutting-edge work in both fundamental and translational science. The faculty members have diverse research interests and they conduct both basic and applied research in diverse areas such as Cell & Molecular Engineering, Biomaterials & Tissue Engineering, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Biotransport Engineering, and Medical Electronics & Instrumentation.



REGISTRATION

Registration Fees: 500/-

Registration Link :

<https://forms.gle/y2o9NQSkwmAKABPF6g>

Account Name. -CONTINUING EDUCATION NIT ROURKELA

Account No.: 10338951784

IFSC Code: SBIN0002109

Branch: NIT Campus, Rourkela

UPI ID: 01389517841@sbi QR CODE:

LAST DATE OF REGISTRATION: 09th April, 2026

Registration for student/ staff of NIT Rourkela is free; Accommodation will be arranged at the campus, subject to availability and charges payable by the participant.

Scan the QR Code to register and join us!



E-certificates will be provided to the registered participants upon successfully completing workshop

Student Coordinators:

Ms. Swatika Barik

Ms. Akansha Mohanty

Ms. Manti Biswas

Ms. Aishani Banerjee

Note: ·

Accommodation (sharing) will be provided on a payment basis.

Food will be served in the Guest House/Hostel on payment basis.