

Online STTP on
**Emerging Trends and Challenges in
Biomechanics and Biomaterials**

From 25th – 30th July 2023

REGISTRATION FORM

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Qualification
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Amount
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Participants must send scanned copy of the filled registration form along with proof of payment through email to the coordinators.

For registration, go through following link:

<https://forms.gle/RBVkXVsxFRsgBDoi8>

Payment should be made to the following.

Account No.: 38027633250

Name: Director, NIT Raipur

IFSC: SBIN0002852

Registration Fee should be paid in the form of Cash/DD/NEFT in favour of Director, NIT Raipur.

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Organized by

Department of Biomedical Engineering



**National Institute of Technology Raipur,
Raipur - 492010 (Chhattisgarh)**

About the Institute

National Institute of Technology Raipur situated in the capital of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. The institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department

The Department of Biomedical Engineering came into existence in the year 2003, when Biomedical Engineering is first time introduced in NITs. Department of Biomedical Engineering is now the study and research workplace of approximately 200 students from the 28 states across India. The department provides an outstanding research environment and offers academic program leading to the award of B. Tech and Ph.D. degree.

Objectives and Scopes

The primary focus of this event is to explore the cutting-edge advancements in the synthesis, surface modification, processing, treatment, characterization and tribological aspects of Biomaterials. Additionally, the event aims to highlight advancements in the field of Biomechanics. The objective of this event is to impart knowledge and provide comprehensive training to a diverse group of participants. This includes students pursuing undergraduate and postgraduate programs, research scholars, and young researchers who have a keen interest in the fields of Biomaterials and Biomechanics. Renowned experts from various organizations will deliver lectures during the program. The program will feature distinct components, such as lecture sessions and hands-on training on various topics. Also, the program includes the accurate simulation of physiological phenomena occurring in the human musculoskeletal, cardiovascular, and dental systems using advanced computational tools. By the conclusion of the program, participants will develop the skills necessary to synthesize and characterize biomaterials, design, and develop 3D models, and perform computational analyses for biomechanical and fluidic behavior of implants and scaffolds. This Short-Term Training Program offers an excellent opportunity for students and researchers to expand their knowledge and expertise in these fields.

Topics to be Covered

- BioTribology
- BioPolymers
- BioCorrosion
- Dental Biomechanics
- Solid Modelling and FEA
- Sports Biomechanics

Hands-on session/Demonstration on

- Reverse Engineering: 3D Modeling and Optimization
- Assembling and FEA of Implants
- Additive Manufacturing – FDM 3D Printing
- Material Characterizations using Universal Testing Machine

Targeted Participants

Undergraduate, Postgraduate and Ph.D. students, young faculty members/researchers from academia and industry.

Registration Fee Details (in INR)

Participants	Amount (in Rs) including 18% GST
Students (UG)	590
Students (PG/Ph.D.)	885
Faculty	1180
Industry Delegates	1770

Participants must fill the online registration form with payment details. Fee is non-refundable. Selected participants will be notified through email as per the schedule. E-Certificates will be issued to the participants only after attending the complete course.