

ORGANIZED BY :

Department of Biotechnology and Medical Engineering
National Institute of Technology Rourkela

CHAIRMAN

Prof. Kunal Pal
HOD

Dept. of Biotechnology and Medical Engineering
NIT Rourkela

CONVENER

Prof. A. Thirugnanam

Dept. of Biotechnology and Medical Engineering
NIT Rourkela



TARGETED AUDIENCE

Faculty members, Undergraduates, and
Postgraduates, PhD scholars, Industrialists, and
medical professionals (doctors, physiotherapists, etc)

For further details contact :

Prof. A. Thirugnanam

Associate Professor

Dept. of Biotechnology and Medical Engineering
NIT Rourkela, Odisha - 769008

Email: bmbtlab.nitrkl@gmail.com

Phone No. : 9437809940

REGISTRATION FEE

| Participants | Amount (INR) |
|-------------------------------|--------------|
| Students (UG/PG) | 700 |
| Phd scholars | 1000 |
| Faculty members | 2000 |
| Industrial person and doctors | 3000 |

IMPORTANT DATES

| | |
|------------------------------|----------------|
| Registration starts | 20 July 2023 |
| Last date for registration | 31 Aug 2023 |
| Confirmation of participants | 1 Sept 2023 |
| Workshop dates | 4 -8 Sept 2023 |

The registration will be done for the first 20 applicants on first come first serve basis

Registration fee can be paid online via NEFT/RTGS/IMPS using the following bank details given below:

Name: CONTINUING EDUCATION NIT ROURKELA

A/C No.: 10138951784

Bank: State Bank of India

Branch: NIT Campus Rourkela

IFSC Code: SBIN0002109

AFTER COMPLETION OF THE PAYMENT KINDLY
REGISTER AT:

<https://forms.gle/aQ5qR9hrJDrjZm5c8>

PS: Registration fee (including GST) covers only participation in the short-term course.

ACCOMODATION DETAILS

- For boarding and lodging limited accommodation is available in guest house/hostels on payment basis subject to availability. (Please contact/email in advance)
- There are many budget friendly hotels available in Rourkela.



Five day short-term course on

GAIT ANALYSIS: AN EFFECTIVE TOOL TO MEASURE HUMAN MOTION

4 - 8 Sept 2023



ORGANIZED BY :

Department of Biotechnology and Medical Engineering
National Institute of Technology Rourkela
Odisha - 769008, India

ENDOSERED & CO-SPONSORED BY :



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

ABOUT THE SHORT-TERM COURSE



This course aims to provide basic knowledge about gait techniques used for kinetic and kinematic analysis. The motion capture system is one of the established techniques of gait analysis. In the motion capture system, the reconstructed 3D positions of markers are mapped to a pre-defined human skeleton for animation. This makes the attendees to know the fundamental of the motion capture system and the technology involved in it. The course will focus on the tools and techniques available for capturing gait patterns, its advantages, limitations and applications.

Some of the topics which will be covered in the course are

- Introduction of Gait analysis
- Various gait measuring techniques
- Measurement of kinetic and kinematic parameters
- Labelling of markers
- Calibration of motion capturing system
- Gait abnormalities
- Determination of gait parameters
- Hands on experience on gait measuring techniques and many more.



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WEATHER IN ROURKELA

A moderate temperature around 28 degrees is expected with slight rainfall during September.

HOW TO REACH ROURKELA

AIR: Nearest airport is Ranchi (180 km) and Jharsuguda (130 km)

RAIL: Rourkela is well connected by train routes with all parts of the country. It is situated on Howrah-Mumbai line as well as on Ranchi-Bhubaneshwar line.

ROAD: Rourkela is well connected with the various parts of the state by NH10 and NH23.

Railway station to NITR Campus: Auto/Taxi available at Rourkela railway station, which is 8Km away from the campus.

ORGANIZING COMMITTEE MEMBERS

- Prof. Krishna Pramanik
- Prof. Subhankar Paul
- Prof. Mukesh Kumar Gupta
- Prof. Kunal Pal
- Prof. A. Thirugnanam
- Prof. Amit Biswas
- Prof. Bibhukalyan P. Nayak
- Prof. Sirsendu Sekhar Ray
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