

## Details about Course

Ergonomics is the scientific discipline concerned with the understanding of interaction among human and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimize human wellbeing and overall system performance. Ergonomics contribute to the design and evaluation of tasks, jobs, products, environment and system in order to make them compatible with the needs, abilities, and limitations of people/ users. There is urgent need to introduce the subject 'Ergonomics/ Human factors Engineering' in the curricula of Engineering, Technology and Design education to produce skilled and expert manpower with technical know-hows of Ergonomics. In order to deliver user friendly product and production system along with promotion of quality of work-life, use of ergonomics principles in all aspects of life is of utmost necessity.

## Course Intend to Cover

- Human Factor Fundamentals / Fundamentals of Ergonomics
- Design Fundamentals
- Aesthetic Perception
- Design Innovation
- Creativity & Innovation
- Design Methods
- Design Ergonomics
- Occupational Health & Safety
- Ergonomics Tools and Techniques
- Classroom Presentation Techniques

## Course Benefit

- Faculty members and students/ research scholar engaged in technical education (Engineering/ Design), will be sensitized towards importance of the 'Ergonomics discipline'.
- Encouraging research scholar and faculty members to implement principles of ergonomics pro-actively in their design development of models/ tools/ equipment or any other projects.
- Hands-on training for preparing presentation for classroom demonstration of technical topic in an attractive manner.
- Participants will become aware about the various facilities/ instruments available in Ergonomics Laboratory, Department of Design, IIT Guwahati.

## Methodology

- Illustrated Lectures
- Interactive Sessions
- Hands-on experience in Ergonomics Laboratory.
- Laboratory and Workshop visit in the Department.

## Resource Person

Faculty members of Department of Design, IIT Guwahati will take lectures on different topics.

## Course Material

Each participant will be provided with a set of Course material on the subject.

## Category of Participants and Registration fee

The payment for registration fee is to be made by Demand Draft (DD) drawn on any Nationalised Bank in favour of "Registrar, IIT Guwahati", payable at Guwahati.

### Category I: Faculty members from TEQIP Mapped Institute

- (Refundable fee of ₹ 5000)

### Category II: Faculty members from Non-TEQIP Mapped Institute

- Applicable Fee ₹ 12,000 + 18% GST (Total ₹ 14,160)

### Category III: Professional from Industry and R&D Organization

- Applicable Fee ₹ 15,000 + 18% GST (Total ₹ 17,700)

### Category IV: Student / PG Students / Doctoral and Post Doctoral Students from TEQIP Mapped Institute

- Applicable Fee ₹ 2,000 refundable

### Category V: Student / PG Students / Doctoral and Post Doctoral Students from Non-TEQIP Mapped Institute

- Applicable Fees of ₹ 8,000 + 18% GST (Total Rs. 9,440)

## Important dates

- Duly filled form along with DD should reach by **10th Dec, 2019**
- Intimation of Selection: **20th Dec, 2019**
- Workshop Date: **7th Jan -11th Jan, 2020**

## Registration Form

Duly filled form along with DD to be submitted before 10th Dec, 2019

Name .....

Designation .....

Organization .....

Address .....

Mobile .....

E-mail .....

Highest Academic Qualification .....

Specialization .....

Experience in Year(s)

a) Teaching ..... b) Professional .....

Choice of Accommodation

☐ Hostel ☐ Guest house ☐ Not Required

Category: ☐ Gen ☐ OBC - NCL ☐ OBC ☐ SC ☐ ST

Type of TEQIP – III Institute

(Refer <http://www.npiu.nic.in/> under the menu Institutions and the Sub-menu TEQIP III

☐ Subcomponent 1.1 ☐ Subcomponent 1.3 ☐ ATUS

☐ Twinned Institutions ☐ Not Listed

Please Register me for the TEQIP on 'Ergonomics in Design and Engineering Education' to be held at IIT Guwahati.

Date ..... Signature of Applicant

Place .....

Cont...

## SPONSORSHIP

### (a) For applicants from TEQIP Mapped Institutions:

Prof./ Dr. / Mr. /Ms. /Mrs.

is a bona-fide student/ employee of our Institution and his/ her application is hereby sponsored/ endorsed. If selected, the applicant will be permitted to attend the short-term course on 'Ergonomics in Design and Engineering Education' at IIT Guwahati, from 7th - 11th, January 2020.

Date .....

Signature of HOD

Designation:

Official Seal .....

### (b) For applicants from Non - TEQIP mapped institutes, Industries and Government organizations

Amount:

DD No. and Date:

Bank:

Signature of the Applicant

The duly signed / endorsed form along with DD should be mailed to: (before 10th Dec, 2019)

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## IIT Guwahati

IIT Guwahati campus is spread over a sprawling 785 hectares plot of green land on the north bank of the river Brahmaputra around 25 km from the heart of the city. With hills and vast open spaces the campus provides an ideal setting for Education & Training. Details on how to reach IITG Campus are available on the website : [www.iitg.ac.in](http://www.iitg.ac.in)



## Ergonomics Laboratory, Department of Design

Ergonomics laboratory at Department of Design, IIT Guwahati was set-up in 1999 under leadership of Prof. Debkumar Chakrabarti. This is a well-equipped laboratory with various basic and applied research facilities for both physical and cognitive ergonomics. Apart from equipment for traditional ergonomics evaluation, modern sophisticated equipment are also available for virtual ergonomics evaluation and cognitive workload study.



## Contact

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## TEQIP III Sponsored Short Term Course on

## Ergonomics in Design and Engineering Education

7 - 11 Jan, 2020

<http://www.iitg.ac.in/erglab/TEQIP/>



Organized by:  
Center for Ergonomics: User Centered Design and Occupational Wellbeing,  
Ergonomics Laboratory, Department of Design,  
**Indian Institute of Technology Guwahati**