

**Registration Form**

**Short-Term Course on Applied Machine Learning  
September 12-16, 2016**

Name: .....

Designation: ..... Sex: M / F

Highest Academic Qualification: .....

Experience: ..... Year(s) .....Month(s)

Organization : .....

Address : .....

.....

Mobile : ..... Fax: .....

E-mail : .....

Bank Draft Details: Amount: ..... Draft No: .....

Drawn on: .....

Date:

Place: \_\_\_\_\_ Signature of Participant

The applicant is a permanent faculty/employee of our organization. He/she is recommended for the course and will be released upon selection.

*Signature with seal of the head of the organization*



**Short-Term Course on  
Applied Machine Learning  
September 12-16, 2016**



**Continuing Education Programme  
Indian Institute of Technology Kharagpur**



**Department of Industrial & Systems Engineering**

**Indian Institute of Technology Kharagpur  
Kharagpur – 721 302, INDIA**

## Objective of the Course

To develop a good understanding of application of various machine learning and statistical methods to solve complex industrial and systems engineering problems. Focus will be on the recent progress made by the scientific and technical community in the field of analytics ranging from decision pertaining to scheduling of maintenance activity for an equipment at a manufacturing plant to real time vehicle routing problem for a logistics company to demand forecasting and price optimization for an online retailer. The course will draw from various case studies and thus emphasis will be on application.

The goal of this five-day short-term course is to provide a broad introduction to the key ideas in machine learning and its application

## Key Topics

Learning Theories	Linear and Logistics Regression	Artificial Neural Network
Kernel methods and Radial Basis Functions	Support Vector machines	K-means clustering
Factor Analysis	Principle Component Analysis	Hidden Markov Models

## Eligibility

Category-I : Teachers/students from TEQIP-II approved Colleges / Institutions / Universities. Participants should bring a letter of nomination from their Principal stating that they are being deputed for the course.

Category-II : Teachers from non-TEQIP- II institutions and professionals working at Govt. R&D labs/organizations with B. E./B. Tech./AMIE/Diploma in Engineering and B. Sc./M. Sc. or any higher qualification in relevant field.

Category- III : Participants from the Industry working in related fields.

## Course Fee\*

Category-I : There is no registration fee. However, a Demand Draft of Rs.1,000/- should be enclosed with the application form which will be refunded to the participants attending the course.

Category-II : Rs. 10,000/-

Category-III : Rs. 20,000/-

\* Course fee includes course materials and breakfast/lunch/dinner/snacks.

## How to Apply

Completed registration form along with a demand draft in favor of 'CEP-STC, IIT Kharagpur', payable at Kharagpur should be sent to mailing address of the Course Coordinator latest by Aug 22, 2016. Number of participants for the course will be limited to thirty only. The participants will be selected on 'First-Come-First-Served' basis. Preference will be given to faculty of TEQIP –II sponsored institutions.

## Certificate

A certificate of participation would be issued to all the participants from the Office of "Dean, Continuing Education, IIT Kharagpur".

## Accommodation

Category – I: Outstation participants will be provided shared accommodation at the Institute Guest Houses as per availability. The accommodation fees would be waived for the participants.

Category – II/III: The participants will be provided with accommodation in the Technology Guest House on payment basis (single occupancy: Rs 800 per day and twin sharing: Rs 600 per person per day).

## How to reach IIT Kharagpur Campus

IIT Kharagpur is Situated about 120 km west of Kolkata, Kharagpur can be reached in about 2 hours by train from Howrah railway station of Kolkata or 3 hours by car from Kolkata Airport. Kharagpur is also connected by direct train services to most major cities of the country. The Institute is about 10 minutes drive (5 km) from the Kharagpur railway station. Private taxi, autorickshaw or cycle-rickshaw can be hired to reach the Institute.

## Weather

Winter (October to February) is moderate and pleasant (10°C to 25°C ) in Kharagpur. Summer (March to June) is hot (25°C to 40°C ) and sometimes humid. Rains are normally confined to the months of June to September.

## Places to visit

Nehru Museum, Hijli Shahid Bhavan, Old Prison Cells, Martyrs Memorial.

## Address for Communication

All queries regarding the Course may be addressed to any one of the Course Coordinators:

### Dr. Akhilesh Kumar

Principal Coordinator

Department of Industrial & Systems Engineering, Indian Institute of Technology Kharagpur, Kharagpur- 721 302

Tel: 03222-283732 (office); E-mail: akumar@iem.iitkgp.ernet.in

### Dr. Jitendra Kumar Jha

Co-coordinator

Department of Industrial & Systems Engineering, Indian Institute of Technology Kharagpur, Kharagpur- 721 302

Tel: 03222-283748 (office); E-mail: jkja@iem.iitkgp.ernet.in

### Dr. Sri Krishna Kumar

Co-coordinator

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Tel: 03222- 283744 (office); E-mail: srikrishna@iem.iitkgp.ernet.in