



Indian Institute of Technology Ropar Department of Mechanical Engineering

Short Term Course on Numerical Methods in Engineering: Advances and Applications (under Advanced Knowledge in Nutshell (AKIN) Program) July 05 - 08, 2021

ABOUT THE EXPERT:



Dr. Indra Vir Singh
Professor
Department of Mechanical and
Industrial Engineering
Indian Institute of Technology Roorkee

Prof. Singh is a well-known researcher in the area of Computational Mechanics. He is one of the pioneers of advanced numerical techniques such as XFEM, EFGM in India. He has supervised 15 PhD and more than 50 M.Tech students. He has published more than 100 papers in reputed International Journals.

AIM:

The aim of this course is to acquaint the participants with the mechanics and recent advancements in computational mechanics through lectures covering both fundamentals and applications.

COURSE CONTENT:

- Fundamentals of fracture and damage mechanics
- Introduction to Finite Element Method
- Advanced numerical methods i.e. XFEM/Meshfree methods for engineering problems
- Fracture modelling of brittle, quasi-brittle, ductile and composite materials, bones etc.

WHO SHOULD ATTEND:

People working in the area of fracture/failure mechanics, computational mechanics, structural integrity etc.

MODE OF WORKSHOP:

It will be online. Link will be shared with the registered participants.

IMPORTANT DATES:

- Registrations open on : 15-05-2021
- Registrations close on : 20-06-2021

HOW TO APPLY:

Registration fee

Interested participants can register by paying a fee as per following details:

Students : Rs. 590/- (inclusive applicable GST)

Others : Rs. 1180/- (inclusive applicable GST)

Account details:

Account Name : Continuing Education and Outreach Activities

Account Number : 38909055196

IFSC : SBIN0013181

Branch : SBI IIT Ropar

Registration form:

After paying the registration fee, please fill the following form:

<https://forms.gle/VQDnthFbmEL5gEwV7>

CONVENER:



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CONTACTS: For any further query write to us at
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