



BIPIN TRIPATHI

KUMAON INSTITUTE OF TECHNOLOGY

DWARAHAT-263653, DISTT. ALMORA, UTTARAKHAND

PH-05966-244250, Fax-05966-244114; website: www.kecua.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Dear Sir/Madam,

It gives me immense pleasure to inform you that B. T. Kumaon Institute of Technology, Dwarahat is going to organize a **TEQIP-II sponsored national workshop on "ANSYS Fluent CFD Analysis"**. The workshop is scheduled on **08-10 March 2017** at B. T. Kumaon Institute of Technology, Dwarahat.

I would appreciate if you could nominate and send faculty members as well as students from your esteemed organization to attend the workshop.

The hostel accommodation will be provided on first come first serve basis in Transit Hostel situated in the premise of the institute.

I am sure that this Workshop will prove to be a valuable learning opportunity for all the participants.

With Warm Regards

(Dr. Satyendra Singh)

Convener,

Email- ssinghiitd@rediffmail.com

REGISTRATION FORM

Personal Details:

Name: í í í í í í í í í í í í í í í í í í .
Gender (Male/Female): í í í í í í í í í í í í í í í í .

Academic Details:

Designation: í í í í í í í í í í í í í í í í í í
Qualification: í í í í í í í í í í í í í í í í í í
College/Institute/University: í í í í í í í í í í í í í .
Department: í í í í í í í í í í í í í í í í í í
City/ í í í í í í í í í í State/ í í í í í í í í í í

Contact Details:

Address: í .
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Pin: í í í í í í í í í í . Ph./Mob. : í í í í í í í í í í .
Email: í
Accommodation Required: Yes/No í í í í í í í í í í
Registration Category: (Please Tick)
Participants from Industry í í í í í í í í í í í í í í .
Students & Research Scholars í í í í í í í í í í
Institutional Participants / Faculty Members í í

Details of Registration Fee:

Name of Bank & Branch í í í í í í í í í í
DD No.: í í í í í í í í í í ... Dated: í í í í í í í
For Rs í í í í í í í í .
(Note: DD should be drawn in favour of “**Director, BTKIT, Dwarahat**” payable at SBI KEC Dwarahat (Code 10584)

Date: í í í í í í í í í **Signature of Participant**
The applicant is hereby sponsored and will be permitted to attend this workshop.

Patron

Prof. R. K. Singh, Director

Convener

Dr. Satyendra Singh
Head, Mechanical Engineering Department

Registration Fees

Participation from Industry: Rs. 2000/-
Institutional Participants: Rs. 1000/- / Faculty Members
Students and Research Fellows: Rs. 500/-

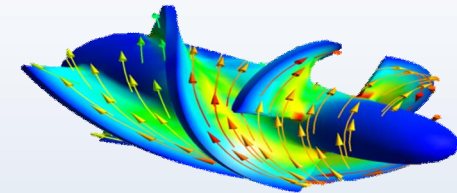
Address for Correspondence

Dr. Satyendra Singh
Head, Department of Mechanical Engineering,
BTKIT Dwarahat, Almora, Pin: 263653.
Website: www.kecua.ac.in
Dr. Satyendra Singh: ssinghiitd@rediffmail.com;
9456222807

National Workshop On ANSYS FLUENT CFD ANALYSIS

(08-10 March, 2017)

Under TEQIP Phase II



Convener
Dr. Satyendra Singh



Organized By

Department of Mechanical Engineering
B. T. Kumaon Institute of Technology
Dwarahat, Almora (Uttarakhand)

ABOUT THE INSTITUTE

B.T.Kumaon Institute of Technology (Formerly- Kumaon Engineering College), Dwarahat, District Almora, Uttarakhand is an engineering institute established by the Govt. of Uttar Pradesh in 1986 for imparting engineering education and promoting technological environment in Kumaon region. Kumaon Engineering College, Dwarahat started functioning in 1991 and its name transformed into B.T. Kumaon Institute of Technology (BTKIT) in 2011. The institute is spread over an area of 155 Acres at an altitude of 1450 meters. The institute has been granted autonomy status by UGC in 2012.

Institute offers B. Tech., M. Tech. programmes in various disciplines of Engineering & Technology. The Institute has been selected under World Bank funded Government of India Project on Technical Education Quality Improvement Programme (TEQIP - II).

The institute possesses several modern facilities and offers a congenial environment for teaching and research. With over 25 years of experience and achievements in the field of technical education, BTKIT has established itself as an institute of total commitment to the quality and excellence in academic pursuits.

ABOUT THE DEPARTMENT

Mechanical engineering is one of the core branches of the Engineering curriculum. There are state-of-the-art equipment and test rigs in the Air conditioning and Refrigeration materials science testing lab, measurement and meteorology Lab, Thermodynamics lab, Fluid Mechanics, IC Engines and others. It is a matter of great pride that the department has a well qualified highly experienced and academically strong full time faculty. They have high dedication for imparting learning and analytical skills to the students. The department has fully established and functional labs & Workshops such as theory of machine &

design lab, fluid mechanics lab, Material science lab, Heat and mass transfer lab, fluid machine lab, Internal combustion engine lab, mechanical engineering lab, Thermodynamics lab, Applied thermodynamics lab, Manufacturing science lab, Measurement and metrology lab, Automobile lab, CAD/CAM lab, fitting shop, carpentry shop, welding shop, machine shop, black smithy shops etc.

OVERVIEW AND COURSE OBJECTIVES

Computational Fluid Dynamics (CFD) is a branch of Fluid Mechanics that uses numerical analysis and data structure to solve and analyze problems that involves fluid flows. Computers are used to perform the calculation required to simulate the interaction of liquid and gaseous surfaces defined by boundary conditions. With high speed super computers better solutions can be achieved. Ongoing research yields software that improves the accuracy and speed of complex simulation scenarios such as transonic or turbulent flows.

- Introduction to Computational fluid dynamics.
- Brief discussion about the various Workbenches in ANYSYS like Transient thermal, Steady state thermal, and Fluent etc.
- Modelling and analysis of structural, thermal and fluid flow problems using CFD.
- Computational and geometrical aspects of ANSYS.
- Case study of heat transfer, fluid flow temperature distribution through various complex surfaces, and structural analysis behavior.

BENEFITS OF ATTENDING THE COURSE

Persons who would attend the course should benefit in strengthening their background in the following areas:

- Understanding of the computational steps involved in the Computational Fluid Dynamics development from

- the governing equations of engineering and applied science, particularly, structural, heat transfer and fluid flow problems.
- Insights into the relationship between the physical data (e.g., loads, boundary conditions, constitutive behavior, etc.) and the finite element model of a physical problem.
- Ready to use the commercially available CFD Packages via. ANSYS to analyze any engineering problem.
- Knowledge to teach the Computational fluid dynamics procedures to others.

WHO SHOULD ATTEND?

This course is aimed at engineers, faculty of engineering at Degree levels, PG students, Research Scholars, practicing engineers in government & industry of various disciplines, who intend to teach CFD and/or use the commercially available CFD Packages to analyze structure. Persons from mechanical, production, civil, automobile (having basic knowledge of solid mechanics, heat transfer and fluid flow) are eligible to attend the course.

IMPORTANT DATES

Last date of Registration with Fees: 06 March, 2017
Intimation of confirmation: 07 March, 2017