Training Program
The training will be divided into four sessions of 3 hours each. The topics covered in each session will be as mentioned below:

Session 1: Introduction to OpenFOAM
Introduction to OpenFOAM session is an informative session on OpenFOAM which will give insight to structure of OpenFOAM, Libraries, Turbulence models, Meshing, Solvers, Applications, OpenFOAM capabilities and its compatibility with other third party CFD packages Eg: Fluent.

Session 2: Tutorial on incompressible flow around 3D Geometry
This tutorial will provide hands on experience on how to mesh a 3D geometry using Snappy HEXMESH including Boundary layer additions. The user will also learn to choose appropriate solver for his problems and provide right solver settings and boundary conditions with right Turbulence model. Finally the user will learn how to post process results obtained from simulation using paraFoam.

Session 3: Tutorial on Chemically Reacting Flows and Species Transport
A case of chemically reacting flows will be solved using tools available in OpenFOAM and a complete understanding of the solver will be developed. A case of non-reacting species transport will also be solved in this session.

Session 4: Tutorial on dieselFoam
In this session the solver dieselFoam will be looked at and a test problem will be solved using this solver, tutorial will help in building up the proper understanding of the solver.

Training Benefits
The training will be beneficial in developing an insight into the CFD of Combustion and Fluid Flow. The main emphasis will be paid in developing the understanding of the subject and the proper use of the tools to solve the engineering problems. After the training it is expected that the students will have proper understanding of the OpenFOAM tools and will be able to approach the complex engineering problems using OpenFOAM.

Registration fees
The registration fee shall be payable through cash to the Coordinator, Workshop cum Finishing School on OpenFOAM.
UG Students Rs. 500
PG Students/Research Scholars Rs. 750
Faculty Members Rs.1000
Person from Industry Rs.2000

11th March 2016 (Friday) Session 1: 9:00am-12:00pm
LUNCH
Session 2: 3:00pm-5:00pm
12th March 2016 (Saturday) Session 1: 9:00am-1:00pm
LUNCH
Session 2: 2:00pm-5:00pm

VENUE Computing Systems Lab (Main Building), ZHCET, AMU.

Experts: Taral Engg. Solutions Pvt Ltd., SIDBI Innovation Center, Indian Institute of Technology- Kanpur

Coordinators: Dr. Shah Shahood Alam
Ms. Arees Qamareen

Co-coordinators: Mr. Nafees Ahmad
Mr. Adnan Hafiz
Dr. M. Jamil Ahmad
Mr. Taliv Hussain
Mr. Sanaur Rehman

TRAINING PROGRAMME
Workshop cum Finishing School on OpenFOAM
(Under TEQIP-II Program)
March 11-12, 2016

Organized by

Department of Mechanical Engineering
Zakir Husain College of Engineering & Technology
Aligarh Muslim University
Aligarh 202002, U.P., India
www.amu.ac.in

All correspondence should be addressed to
Dr. Shah Shahood Alam & Ms. Arees Qamareen

Coordinators
Department of Mechanical Engineering
Z.H. College of Engineering & Technology
Aligarh-202002
Email-sshahood2004@yahoo.co.in, areesq@gmail.com
Tel No. +91-9319572233, +91-9897121801