



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaavi)

## Department of Mechanical Engineering

### Report on Technical Talk

Department of Mechanical Engineering, A J Institute of Engineering and Technology in association with ARMS organized a technical talk on ‘**Computational Fluid Dynamics (Limitations, Advantages and Application of CFD)**’ on 14<sup>th</sup> February 2019 from 3.30 PM to 5.00 PM in Seminar Hall-1, AJIET by Mr. Madhwesh N, Senior Assistant Professor, MIT, Manipal.

The occasion was graced by our beloved HOD, teaching, non teaching staffs of various departments and students of 2<sup>nd</sup> and 3<sup>rd</sup> Mechanical Engineering.

Miss Karna Tulasi from 2<sup>nd</sup> year Mechanical Engineering was Master of Ceremony. Professor and Head of the Department of Mechanical Engineering Dr. Rajesh Rai P formally welcomed the speaker. Mr. Shailesh, from 2<sup>nd</sup> year Mechanical Engineering introduced about the speaker to the gathering.

Mr. Madhwesh N started the session by defining CFD and explained the use of CFD in various areas of engineering such as modeling and analysis of pressure distribution on wings of aeroplane, air distribution over the surface of vehicles, biomedical, chemical processing of different fluids-prediction of flow separation and residence time effects.

He also described application of CFD in oil and gas, power generation-modeling of cooling tower. He gave an introduction to software by explaining various features associated with modeling co-ordinates, geometries, meshing, boundary conditions, results and reports. He also explained theoretical concepts such as Navier Stokes equation for fluid flow, continuity equation and also demonstrated the FEA model of dinosaur.

The guest speaker gave various inputs for carrying out research activities in the areas of flat plate heater with and without tabulators.

Dr. Rajesh Rai, HOD, Department of Mechanical Engineering honored the speaker and proposed the vote of thanks. The programme was successful with the cooperation of teaching and non-teaching staffs.

Prof. Dr. Rajesh Rai, Head of Mechanical Engineering Department, supported and guided the students and faculty.



**COORDINATOR**

**HOD**

**PRINCIPAL**

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1. President, LMET
2. Vice President, LMET
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