



BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING LAVALE, PUNE 412115

Mechanical Engineering Department

Date- 20/03/2017

Report On
“Two Days Modular Course on Advanced Finite Element Analysis”

The Two days Modular Course on “**Advanced Finite Element Analysis**” was successfully organized on **1st & 2nd March 2017** in **Mechanical Engineering Department** at BVCOEL, Pune. The Course was arranged by Prof. S. N. Kadam (Assistant Professor) and well attended with 49 B.E. Mechanical students. The Speaker at seminar was **Mr. Nitin Badhe** (Industrial Design Expert) working as a Sr. Technical Specialist at Altair Innovative Intelligence, Pune. In two days modular course covers basic topics of finite element analysis, advanced tools used in automobile Industries for vibration analysis of different mechanical components. In this Course taught about 1-Dimensional, 2-Dimensional, 3-Dimensional and Higher order elements used in Industries. The program was successfully concluded with question answer session.

List of Topics Covered in Course

- Types of dynamic analysis
- point and distributed mass,
- lumped and Consistent mass
- Mass matrices formulation of bar and beam element.
- Undamped-free vibration
- Eigenvalue problem,
- Evaluation of eigenvalues and eigenvectors (natural frequencies and mode shapes)

Photos of Program

