

DEPARTMENT OF MECHANICAL ENGINEERING

- Title of the Event** : Non-Destructive Testing & Computer Integrated Manufacturing using CAM Systems
- Date/Venue** : 29.08.2017 & 30.08.2017 / Edison Hall
- Participants** : 40 External & Internal Faculty members and students.

The event of two day workshop in “**Non-Destructive Testing & Computer Integrated Manufacturing using CAM Systems (Hands on Training)**” is organized by the Department of Mechanical Engineering, Faculty of Engineering, Karpagam Academy of Higher Education. The training delivers a series of lectures by **Mr. K. Selvaraj**, Managing Director of Hi-Tech CNC Automation, Coimbatore and **Mr. V. Balakrishnan**, Site In-Charge, Cubes NDT service followed by hands on training. The programme has been planned to introduce the students about basics of Non-Destructive Testing & Computer Integrated Manufacturing through hands on training.

The Programme started with prayer song in an inaugural session and was inaugurated by Dr. Lakshmanan, Dean – Faculty of Engineering and Dr. P. Shanmughasundaram, Head-Mechanical Engineering of Karpagam Academy of Higher Education. The technical session started on the topic “Introduction to NDT” by **Mr. V. Balakrishnan**, Site In-Charge, Cubes NDT service. In this session the speaker interacted with participant in such a way that he introduced the topic so as to understand the concept briefly.

The topics covered by the resource person in the following sections are

- Visual testing (VT),
- Ultrasonic testing (UT),
- Radiographic testing (RT),
- Magnetic particle testing (MT) and
- Liquid penetrant testing (LPT).

A live demonstration is also given in UT, MT and LPT methods. The resource person also explained about the job opportunities in NDT field.

In the second day of the workshop, **Mr. K. Selvaraj**, Managing Director of Hi-Tech CNC Automation, Coimbatore has delivered his expertise on Computer Integrated Manufacturing using CAM Systems. The topics covered by the expert are

- CAD- computer-aided design
- CAE-Computer-aided engineering
- CAM-Computer-aided manufacturing
- CAPP - Computer-aided process planning
- CAQ - Computer-aided Quality Assurance

At valedictory session, the Head of the department-Mechanical Engineering distributed certificates to the participants and gave vote of thanks.