

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC - AUTONOMOUS)

Report on
A Two-Day Staff Development Program On CNC Programming
Organized by Dept. of ME - MITS
16-17 September 2016



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Manufacturing went through tremendous changes over the past few decades. The innovations in computer technology created new avenues for extensive developments in every area of manufacturing. Computer Numerical Control(CNC) is a technology that combines electronic hardware with software programs to perform various operations in the machine tool industry. The present generation of CNC machine tools is designed to meet the requirements of high productivity, flexibility and high reliability to produce components of consistently high quality and dimensional accuracy combined with reduction in manufacturing cost. So it becomes essential to update the knowledge of academicians and technicians in the area of CNC technology. With this objective, a two-day staff development program on “CNC Programming” was organized for the lab technicians of various Engineering colleges during 16th&17thSeptember, 2016.

Resource persons:

1. Mr. M. Kalimuthu, Manager-Training, MTAB Solutions, Pvt. Ltd., Chennai.
2. Mr. K. Dinesh Kumar, Customer Support Engineer, MTAB Solutions, Pvt. Ltd., Chennai.

The program commenced on 16th September 2016, with Registration process at 9:00 am and was followed by Inauguration of the Workshop at 10:00 am. The chief guest for the Inauguration was Mr. M. Kalimuthu, Manager-Training, MTAB Solutions, Pvt. Ltd., Chennai. He was also one of the resource persons. The Inauguration program was graced by Dr. C. Yuvaraj, Principal of the College, Dr. P. Suryanarayana Raju, HOD Mechanical Engineering Department, Program Co-ordinator, Co-cordinator, Participants from different colleges in Andhra Pradesh, Faculty, Staff and Students of the Department. The speakers highlighted on the importance of CNC technology, its application areas and the need to enhance the knowledge and skill-set in that area.

Session I of the first day, the Resource Person gave an Introduction to CNC Technology and CNC Programming. After Lunch, in Session II of the first day, Introduction to simulation software, basic operations in turning, tool path generation and simulation were taught to the participants. Then hands on practice on simulation software was given.

In Session I of the second day, topics like Basic operations in milling, tool path generation and simulation were taught to the participants. Session II the Resource Persons gave Hands on Experience on CNC Lathe Operation and Part Fabrication.

The program culminated with Valedictory function at 4:00 pm on 17th September 2016, where the Resource Persons were felicitated and the participants were given participation certificates. The feedback given by the participants was highly encouraging.