Nalla Narasimha Reddy Group of Institutions
NNRG Integrated Campus

NALLA NARASIMHA REDDY
Education Society's Group of Institutions–Integrated Campus
(Approved by AICTE, PCI, New Delhi. Affiliated to JNTU-Hyderabad)
Near Narapally, Chowdariguda (V), Korremula 'X' Road, Ghatkesar (M), Medchal (District), Hyderabad - 500088, Telangana.

School of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

Date 20-03-2015

A REPORT ON INDUSTRIAL VISIT
"JIA MSME EXPO Jeedimetla Industrial Exhibition."

Duration: 18-03-2015 to 19-03-2015

The Department of Mechanical Engineering arranged industrial expo visit for IIIrdyear students, which isheld from 18-03-2015 to 19-03-2015

MSME-DI, Hyderabad, Located in the Industrial hub of Balanagar, in Hyderabad, MSME-Development Institute offers a wide range of services for the Micro, Small and Medium Industrial sector in the States of Andhra Pradesh and Telangana. MSME-DI, Hyderabad also helps enterprising persons realize their dreams of launching their own enterprises, thereby providing employment to others.

In this industry students are observed so many new technologies in manufacturing like LASER Cladding which is used to surface treatment of metals with carbide and Ni. Also the students observed CNC turning machines and milling machine operation.

They had represented their innovative ideas through posters and models. For evaluation purpose two experts had been invited by the mechanical engineering department, one expert from different colleges and industries.

By this visit, students are gained the knowledge about types of CNC Machining Operations.

CNC machining is a manufacturing process suitable for a wide variety of industries, including automotive, aerospace, construction, and agriculture, and able to produce a range of products, such as automobile frames, surgical equipment, airplane engines, and hand and garden tools. The process encompasses several different computer-controlled machining operations—including mechanical, chemical, electrical, and thermal processes which remove the necessary material from the work piece to produce a custom-designed part or product. While chemical, electrical, and thermal machining processes are covered in a later section, this section explores some of the most common mechanical CNC machining operations including:

- Drilling
- Milling
- Turning
- CNC Drilling

Drilling is a machining process which employs multi-point drill bits to produce cylindrical holes in the work piece. In CNC drilling, typically the CNC machine feeds the rotating drill bit perpendicularly to the plane of the work piece's surface, which produces vertically-aligned holes with diameters equal to the diameter of the drill bit employed for the drilling operation. However, angular drilling operations can also be performed through the use of specialized machine configurations and work holding devices. Operational capabilities of the drilling process include counter boring, countersinking, reaming, and tapping.

Mr. A Venkat Vishnu, Mr. K Suresh Kumar and Mr. S. Narendar, along with IIIrd year B-Tech Mechanical engineering students are visited the expo.

HOD-ME
Head of the Department
Mechanical Engineering
Nalla Narasimha Reddy Educatio
Group of Institutions - Integrate
Chowdariguda(Vill), Ghatkesar (Mdl), R.R.Dist.