

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC - AUTONOMOUS)

Report on
A Three Day Program on “CATIA V5 Essentials in Mechanical Engineering”
Under ISTE Chapter Sponsored by TEQIP-II
Organized by Dept. of Mechanical Engg. & IIC - MITS
In Association with EDS Technologies, Bangalore
28th – 30th December 2015



Submitted by: Dr. T. Vishnu Vardhan, Associate Professor, Dept. of Mechanical Engg.

A Three Day Program on “**CATIA V5 Essentials in Mechanical Engineering**” Under ISTE Chapter Sponsored by TEQIP II Organized by Department of Mechanical Engineering & IIC In Association with EDS Technologies, Bangalore from 28th December 2015 to 30th December 2015. Expert, N. Praveen Kumar, Engineer-Technical services, who is having real time experience in modeling, worked as onsite deputation Engineer with Global team like Airbus & GE projects were contributor with significant responsibilities and ownership in designing or engineering the components for Aerospace, Power & water & Automotive industries have been invited as resource person.

The Program was started with formal inauguration addressing the participants by the Principal Dr. C. Yuvaraj, Dean IIC Dr. Ch. Rama Prasada Rao and HoD of Mechanical Engineering Dr. G. Harinath Gowd. Overview of the program and introduction of the Expert from EDS technologies, Bangalore was given by Dr. T. Vishnu Vardhan, Program Coordinator. The hands on training on CATIA V5 tool was immediately followed after tea break. The program was quite interactive and the participants are very well benefitted from the FDP. Many real time case studies were discussed and few assignments are given to participants to provide the solutions during the program.

Objective of FDP: At the end of the training the participants will have: Understanding of CATIA VS interface and application of commands for the following modules Sketcher, Part Design, Assembly Design & Drafting.

The event was scheduled to cover the following.

Day One (28th December 2015)

Part Design

- Introduction to Part Design
- Basic Sketch Based Features
- Basic Dressing-Up Features
- Part Design Transformations
- Part Design Modifications

Day Two (29th December 2015)

Assembly Design

- Create a new product and add components.
- Move components within a product by positioning them with assembly
- Modify an existing product structure.
- Design new parts in context of the product.
- Perform interference checking and measurements.

Day Three (30th December 2015)

Surface Design

- Introduction to Generative Shape Design
- Wireframe Creation
- Surface Creation
- Surface Re-limitation and Connection
- Surface Check Tools

Drafting

Introduction to drafting workbench.

During the third day i.e., 30th December 2015 Valedictory was held where feedback from the participants was collected and it is observed that the program outlook is satisfactory and the participants expressed that they require similar type of programs in the future. The Principal, Dean IIC have graced the occasion and certificates were handed to all the participants.