



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

## DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Event	: One Week Workshop on MODELING & SIMULATION USING UNIGRAPHICS NX
Event Type	: Student Workshop
Date/Duration	: 04-12-2023 to 09-12-2023
Resource Person	: CANTER CADD Pvt Ltd Vijayawada.
Name of Coordinator	: Mr. A. Nageswara Rao, Mr. A. Dhanunjay Kumar, Mr. S. Uma Maheswara Reddy
Target Audience	: III-B. Tech Students
Total no. of Participants	: 105 Mechanical Engineering Students

### Objective of the event:

**Unigraphics NX** is high-end multipurpose modelling software which enables to model components of any geometry in 2D and 3D. Unigraphics NX also called as **UG NX or Siemens NX**, is currently owned by Siemens PLM software. It is tightly integrated one of the most powerful packages of CAD/CAM/CAE, having a very fluid user interface, making it well-liked amongst the industry expert designers. It is used among different tasks for Design, Engineering analysis, manufacturing finished design by using included machining modules. In 1976, Aerospace Company McDonnell Douglas (now part of Boeing) acquired United Computing, who created new CAD/CAM divisions, naming one the Unigraphics Group. Finally, in 1980, Unigraphics was released; marking the group's first true 3D modelling hardware and software offering. NX is developed by Siemens PLM. NX stands for Narwhal extension.

### Outcome of event:

After successful completion of the **Unigraphics Training** students will be able to create stunning interior design models in a 3D Environment. Student will learn the process of interior designing, which includes creating furniture like sofa, bed, kitchen units, etc at very detailed level. **Unigraphics** will teach how to create realistic models for your designs which helps in better visualisation and gives shape to creativity. After taking training in Unigraphics will be capable of making realistic materials as per the design needs. Student will be able to create natural texture and appalling views of the interior design model. Creating Dynamic **walkthrough** with the designed space will be additive feature. **Unigraphics courses** open the door for opportunities in design sector.

## DaytoDayReport

04/12/2023

### SESSIONDETAILS:-

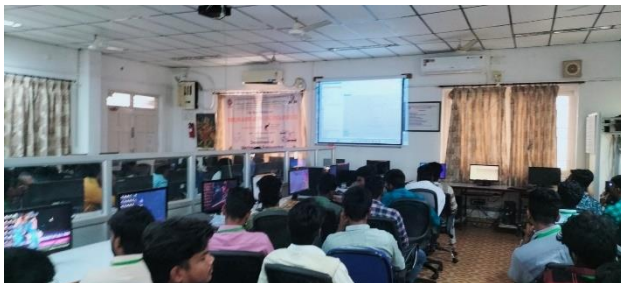
- Session started at 9.00 A.M.
- Registration of participants for the One Week Workshop on MODELING & SIMULATION USING UNIGRAPHICS NX.
- Inauguration of program by Dr. M B S Sreekara Reddy, Head of the Department.
- Introduction to Computer Aided Design process and applications.
- Introduction to UNIGRAPHICS software
- Demonstration on operating UNIGRAPHICS environment.
- Features in UNIGRAPHICS
- Participants practiced and interacted with new UNIGRAPHICS Platforms software.



05/12/2023

### SESSIONDETAILS:-

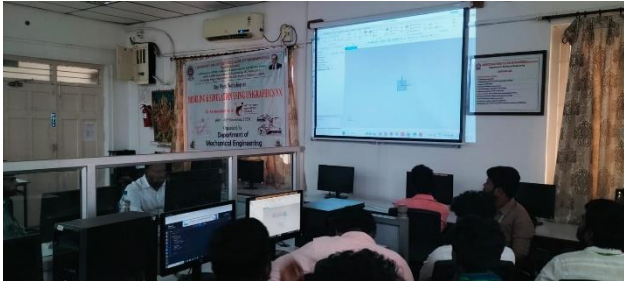
- Session started at 9.00 A.M.
- Briefly explained UNIGRAPHICS Design Window, how to design model in UNIGRAPHICS.
- Draw, modify toolbars in Design toolbars
- Participants performed operations draw toolbars like point, line, rectangular, polygon, and circle
- DRAWING SKETCHES FOR SOLID MODELS
- Edit tool options rotate, scale, mirror that was practiced



06/12/2023

SESSIONDETAILS:-

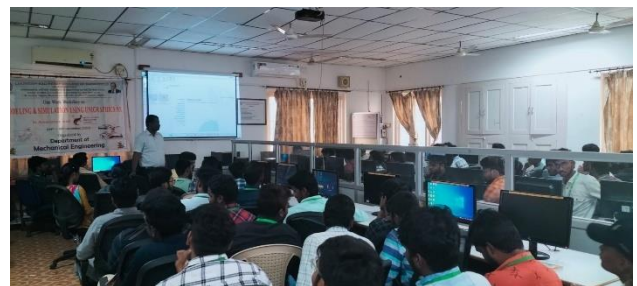
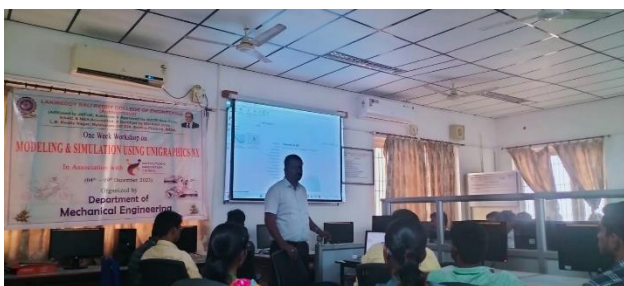
- Sessionstartedat9.00A.M.
- ExplainedDRAWING SKETCHES FOR SOLID MODELS in UNIGRAPHICS
- DRAWING SKETCHES FOR SOLID MODELS
- Demonstrationon2Dand 3Dmodelcomponents
- Participantspracticedmechanicalcomponentsandaerospacecomponents.



07/12/2023

SESSIONSESSION:-

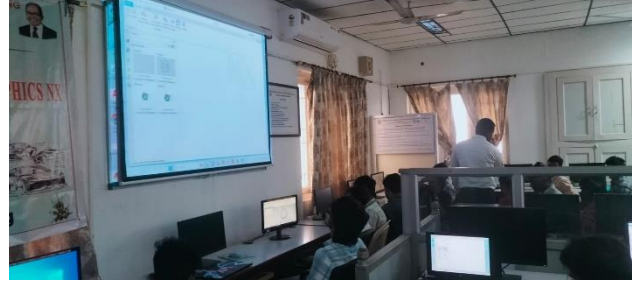
- Sessionstarted at9.00A.M.
- **ADVANCED MODELING TOOLS**
- Advanced Modeling Tools
- Creating Simple Holes
- Creating Counter bore Holes
- Creating Countersink Holes
- Creating Holes by using the Hole Tool
- Participatesparticipated tutorials



08/12/2023

SESSIONDETAILS:-

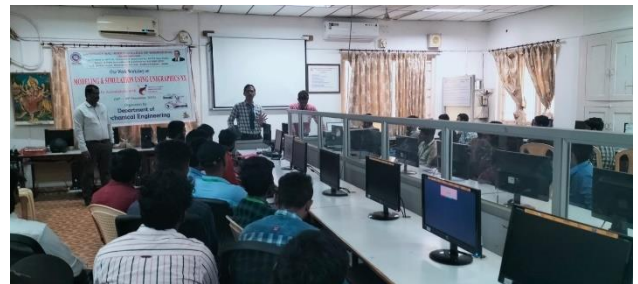
- Session started at 9.00 A.M.
- The Assembly Environment
- Invoking the **Assembly** Environment to UNIGRAPHICS
- Creating Subassemblies
- Editing Assembly Constraints.
- Butter fly value assembly process completed.
- Universal coupling assembly process completed



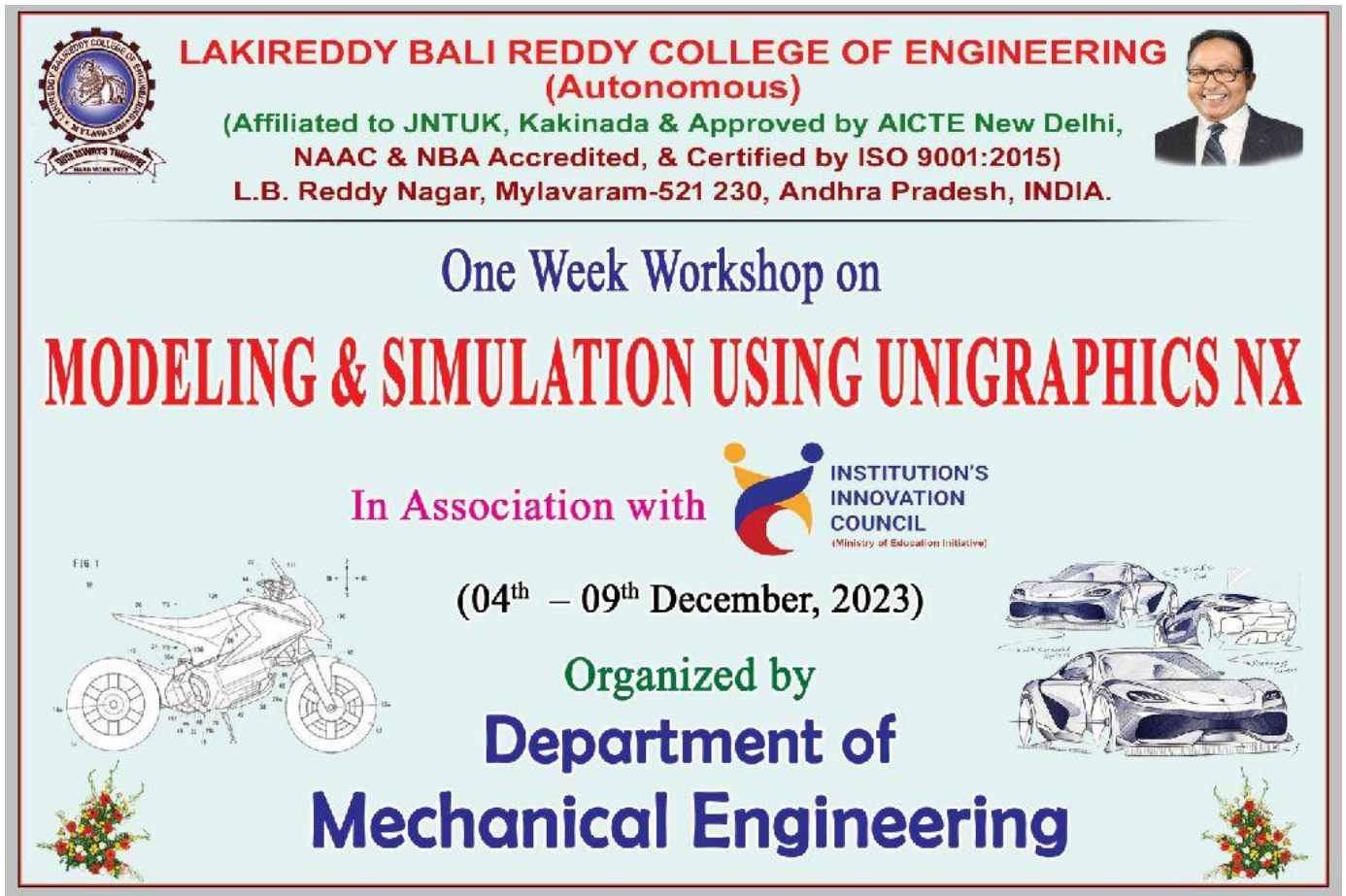
09/12/2023

SESSIONDETAILS:-

- Session started at 9.00 A.M.
- **GENERATING, EDITING, AND DIMENSIONING THE DRAWING VIEWS**
- Report writing of Analysis project explained
- At 3 PM valedictory started.
- Dr. M B S Sreekara Reddy, Head of the Department addressed the gathering
- Certification of course completion was presented to participants.




**Photographs:**



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L.B. Reddy Nagar, Mylavaram-521 230, Andhra Pradesh, INDIA.

One Week Workshop on  
**MODELING & SIMULATION USING UNIGRAPHICS NX**

In Association with  INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

(04<sup>th</sup> – 09<sup>th</sup> December, 2023)

Organized by  
**Department of  
Mechanical Engineering**

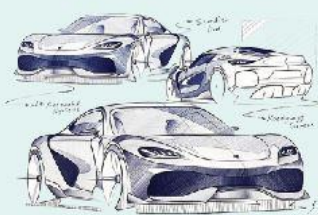
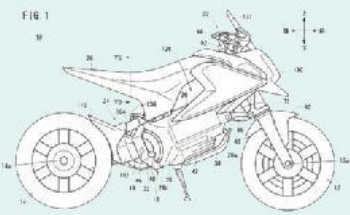


FIG:POSTERFOR MODELING & SIMULATION USING UNIGRAPHICS NX

# Certificate Of Completion



Regd.No : **21761A0333**

Awarded To : **BETHAPUDI VIJAYVARMA**

In : **Modeling and Simulation using unigraphics NX**

During : **04/12/2023 to 09/12/2023**

  
Managing Director

**16/12/2023**

Date Of Issue



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CAD Training Institutions

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The courses offered at CANTER CADD are very comprehensive and of high quality.  
The participants are trained by well experienced instructors in the latest technology.

FIG:CERTIFICATE FORMODELING & SIMULATION USING UNIGRAPHICS NX