





Government Polytechnic, Rajkot SSIP CELL

Date: 05/04/2023

Report

Seminar on

"Recent Trends in CAD/CAM" Seminar for final year diploma students at Government Polytechnic, Rajkot
Organized by

SSIP CELL, G P RAJKOT

Theme of Program:

_ Recent Trends in CAD/CAM_

Date of Program: 05/04/2023 (12:00 a.m. to 2:00 p.m.)

Organized by: SSIP CELL, MECHANICAL DEPARTMENT, GP Rajkot

Attendees: Final year Diploma students of all branches

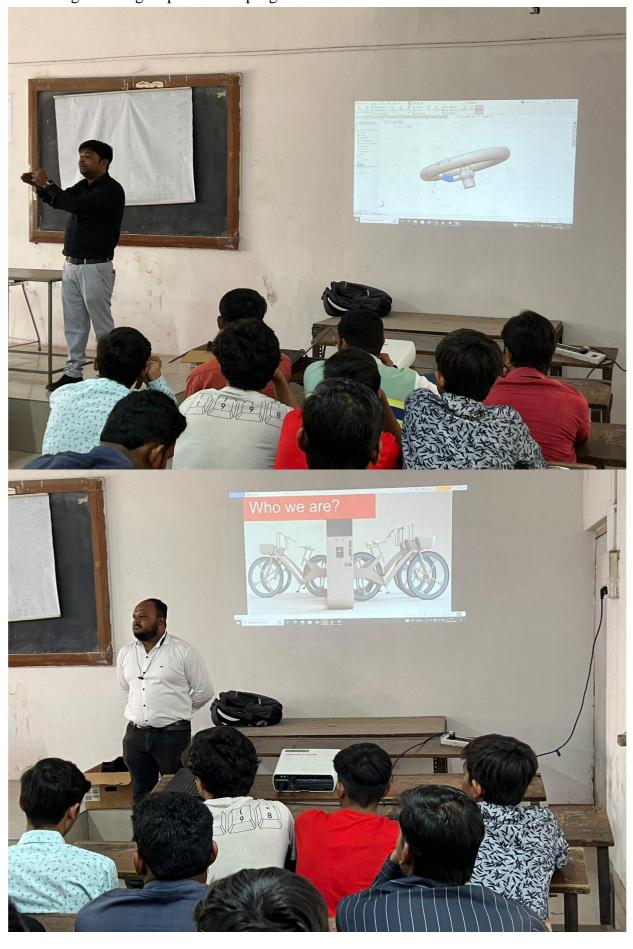
Number of Participants: 51

Venue: CAD/CAM LAB MECH DEPT

Experts:

- 1. Ketan Mistry- Sopan Infotech
- 2. Asif Makwana- Sopan Infotech
- 3. Shri. C P Kalariya, Lecturer Mechanical

Following are the glimpses of the program







Outcome of the Event:

Introduction: CAD and CAM technologies have become integral to product development and manufacturing processes, streamlining workflows, reducing errors, and enhancing overall efficiency. Recent developments have further expanded their capabilities, making them indispensable tools for businesses worldwide.

Key Trends in CAD:

Generative Design: Generative design is a groundbreaking approach that uses algorithms and artificial intelligence (AI) to optimize designs based on defined constraints and objectives. It enables engineers to explore numerous design possibilities quickly, resulting in more innovative and efficient products.

Cloud-Based CAD: Cloud-based CAD solutions offer accessibility from anywhere with an internet connection. This trend promotes collaboration among global teams and ensures seamless updates and data synchronization.

Augmented Reality (AR) and Virtual Reality (VR): Integration of AR and VR into CAD allows designers to interact with 3D models in immersive environments. This enhances design visualization, reduces errors, and improves the design review process.

Parametric Modeling: Parametric modeling enables the creation of dynamic, changeable 3D models. Users can define parameters and relationships, making it easier to adapt designs to evolving requirements.

Sustainability and Eco-Friendly Design: CAD software increasingly incorporates tools

for assessing the environmental impact of designs. This supports the growing emphasis on sustainable and eco-friendly product development

Key Trends in CAM:

Additive Manufacturing (3D Printing): CAM software has evolved to support a wide range of additive manufacturing techniques, including 3D printing. This allows for the production of complex and customized parts with greater precision and speed.

Multi-Axis Machining: CAM systems now support multi-axis machining, which is essential for manufacturing complex and intricate parts. These advancements improve surface finish and reduce cycle times.

Simulation and Verification: CAM software incorporates simulation and verification features to detect and rectify errors in toolpaths before manufacturing. This minimizes scrap and rework.

Toolpath Optimization: AI-driven toolpath optimization algorithms are increasingly used to enhance machining efficiency, extend tool life, and reduce energy consumption.

Integration with IoT and Industry 4.0: CAM systems are integrating with the Internet of Things (IoT) and Industry 4.0 technologies, allowing for real-time monitoring and control of machining processes. This leads to greater automation and efficiency.

Government Polytechnic Rajkot Mechanical Engineering Department Industry Name: Sopem Infetech Date: 5-4-2023 About Industry: Education Isophes & service in CADICAMICAE Name of Faculties: Name of Faculties: Semester: 6th Attendance Sheet St. No. Enrollment No. Name of Student Sign 31 206200319116 RACHAMPONYA AMAN 32 206200319116 RACHAMPONYA AMAN 33 206200319010 Romak Dischugenu 34 206200319010 Runtum Shappyadiya Disch 35 70670031 9010 Ruterini Rhaugh R. D.J 36 866200519028 Dekurudiya Sechir H. 37 206200319010 Ruterini Rhaugh R. 38 706200319028 Dekurudiya Sechir H. 39 196200319028 Taunhu Dhurunk Bonishal 40 206200319037 Tashi day 41 206200319037 Tashi day 42 206200319037 Tashi day 43 206200319035 Khimsuriya Haish D 44 206200319035 Chim Soural Runs 43 206200319035 Hovel Jay R 44 206200319035 Chimsuriya Haish D 45 206200319035 Chimsuriya Mitesh D 46 JA6208343035 Pannan Tay R 47 206200319038 Rhitol Nameh R 48 206200319039 Rhitol Nameh R 8 PANNAN R 19 19620031911 Selaini Aditien R 10 1970		For	SSIP Seminar on Recent -	Trends
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For SSIP Seminar on Recent Trends in CADICAM

Government Polytechnic Rajkot Mechanical Engineering Department

Industry Name: Sopern Infotech

About Industry: Education, Sales a service in CADICAMICAE

Date: 5-4-2023

Name of Faculties:
1. Ketam Mistra 2. Asif Makwama
Semester: 6th
Division: All
Attendance Sheet

		Attendance Sheet	
Sr. No	Enrollment No.	Name of Student	Sign
1	206200319003	Soider Kartik. P	Soiden K.P.
2	206200319051	Shigwan Akshay A	S. 3teshay
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14	196200319779	Sarvaiya Vivek J.	Vilek.
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