



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

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ME001

NBA Accredited
(CSE, ECE, EEE,
MECH, CIVIL)

TWO DAYS WORKSHOP ON SOLIDWORKS - V2.0

Event No	ME001
Organizing Department	Mechanical Engineering
Date	14/03/2024 to 15/03/2024 (2 Days)
Time	09:00 AM to 04:00 AM
Event Type	Workshop
Event Level	Dept. Level
Venue	HPC Lab
Total Participants	34
Faculty - Internal	2
Faculty - External	3
Students - Internal	5
Students - External	24

Related SDG



Involved Staffs

Sl	Name	Role
1	Gokulkumar S	Coordinator
2	Karthi N	Coordinator

Outcome

SolidWorks Proficiency: Gain a strong foundation in SolidWorks, from the user interface to core modeling techniques. **Enhanced Design Skills:** Develop the ability to create complex designs efficiently using advanced features like sweeps, lofts, and patterns. **Assembly Expertise:** Learn to build and simulate assemblies, allowing you to visualize how components interact in a virtual environment. **Sheet Metal Design Specialization:** Master the creation of sheet metal parts, including bends, flanges, and forming techniques. **Engineering Drawing Proficiency:** Gain the skills to create detailed and informative engineering drawings with annotations, dimensions, and bills of materials. **Productivity Boost:** Discover valuable time-saving tips and tricks from SolidWorks professionals to streamline your workflow. **Confidence and Skills Advancement:** Regardless of your experience level, this workshop equips you with the skills and knowledge to take your CAD capabilities to the next level.

Event Summary

Two Days Workshop on SolidWorks - V2.0: Event Report
Dates: March 14th & 15th, 2024 **Location:** HPC Lab
Coordinators: Gokulkumar S (ME065) Karthi N (ME073) **Participants:** Faculty: Internal: 2 External: 3 Students: Internal: 5 External: 23
Summary: The Department of Mechanical Engineering successfully conducted a two-day workshop on SolidWorks, Version 2.0, on March 14th and 15th, 2024. The workshop aimed to equip participants with the knowledge and skills to utilize SolidWorks for Computer-Aided Design (CAD). The workshop attracted a total of 33 participants, consisting of both internal faculty and students, along with external participants. The balanced mix of experience levels ensured a dynamic learning environment. **Workshop Highlights:** The workshop curriculum covered a comprehensive range of topics, starting with an introduction to the SolidWorks interface and basic functionalities. Participants progressed through the course, learning fundamental modeling techniques like sketching, extruding, and revolving. The workshop delved into advanced features like sweeps, lofts, fillets, chamfers, and patterns, equipping participants to create complex designs efficiently. Assembly creation, component mating, and motion simulation were covered, allowing participants to visualize design behavior in a virtual setting. A dedicated session focused on sheet metal design, teaching participants to create components with bends, flanges, and forming tools. The workshop concluded with instructions on creating detailed engineering drawings with annotations, dimensions, and bills of materials. Experienced SolidWorks professionals shared valuable time-saving tips and tricks to optimize participants' workflow. **Outcomes:** The workshop successfully provided participants with a strong foundation in SolidWorks, enhancing their design skills and proficiency in creating complex models. Participants gained expertise in assembly creation and motion simulation, allowing them to analyze design functionality. The workshop also equipped participants with the ability to design sheet metal components and create professional engineering drawings. Overall, the two-day workshop empowered participants to take their CAD capabilities to the next

level. **Next Steps:** Based on participant feedback and identified areas of interest, future workshops may explore: SolidWorks applications in specific engineering disciplines. Advanced topics such as surfacing, simulation analysis, and design for manufacturability.



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Department of Mechanical Engineering is organizing a
Two Days Workshop on SOLIDWORKS
14 & 15 March 2024

The SolidWorks Workshop is a comprehensive training program designed to provide participants with practical skills and knowledge in using SolidWorks software for computer-aided design (CAD) and engineering simulations. This workshop aims to equip attendees with the necessary tools to effectively create, modify, and analyze 3D models, as well as enhance their understanding of product design and development processes.

The Speaker
Mr. V. Murali
Manager-MSD,
Shanthi Gears Limited,
Coimbatore.

Key Highlights	Topics Covered
<ul style="list-style-type: none"> Hands-On Learning Basic to Advanced Concepts Model Creation Assembly and Simulation Design Analysis 	<ul style="list-style-type: none"> Introduction to SolidWorks Sketching and Basic Modeling Part Modeling Assembly Modeling Advanced Part Modeling Surface Modeling Design Analysis and Simulation Drawing and Documentation Sheet Metal Design Introduction to Weldments Renderings and Visualizations Applying materials and textures to 3D models File Management and Collaboration Tips and Tricks

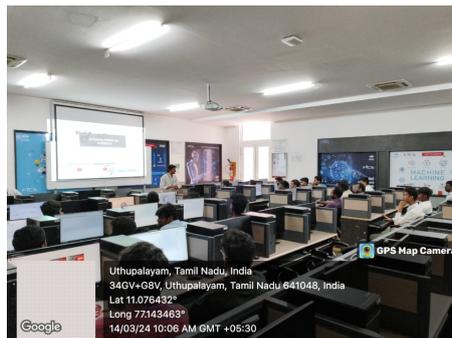
Who is this course for?
This course is designed for

- Undergraduate and post graduate students
- Research scholars
- Engineering faculty members

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