



**NITTTR
BHOPAL**

MEE-5/2024-2025 Solid Works and Auto CAD 02-09-2024 to 06-09-2024 NITTTR Bhopal



<https://erp.nitttrbpl.ac.in/poc2024/?id=regMEE-5>

Scan QR to Register

Rationale

The fundamental principles of feature based parametric product development are the main focus. Feature-based product design and digital manufacturing is one of the most important domains which can reduce overall cost in its life cycle. Feature-based methodology can provide for an adequate basis for the integration of design and the subsequent applications such as engineering analysis, process planning, machining and inspection. Over the last few years, significant amount of research and development is in progress to implement feature-based technique for product design and development. The program on SolidWorks/AutoCAD teaches the engineering drawing utilizing computer-aided drafting. Engineering drawing / Graphics is the basic course in B.Tech. Engineering.

Programme Outcomes

- Draw the orthographic projections using AUTOCAD.
- Draw the projections using AUTOCAD for a given engineering drawing.
- Analyze CSG and B-rep of a given object.
- Develop a solid model for a given object using a CAD modeling tool.
- Apply feature-based product development.

Programme Content

- . Introduction to Product development and use of CAD modeling software.
- . Principles of CSG, B-rep, feature based parametric product development.
- . SolidWorks/AutoCAD for modeling solid object and its usages in product development applications.
- . AutoCAD for drafting for a given industrial drawing and its usages in product development applications.
- . Engineering application Hands on soft tools.

Target Group

Faculty of Mechanical Engineering and allied disciplines

Coordinator & Co-Faculty

Dr. Ravi Kumar Gupta
Associate Professor
Department of Mechanical Engineering Education
rkgupta@nitttrbpl.ac.in

Dr. Vandana Somkuwar
Professor
Department of Mechanical Engineering Education
vsomkuwar@nitttrbpl.ac.in



e Prashikshan
An Online Training Portal of NITTTR Bhopal
www.eprashikshan.com

National Institute of Technical Teachers' Training and Research (NITTTR)
(Deemed to be university under distinct category), Ministry of Education, Government of India,
Shamla Hills, Shanti Marg, Bhopal-462002 (M.P.)

[/nitttrbpl](https://www.nitttrbpl.ac.in) [/nitttrbhopalofficial](https://www.nitttrbpl.ac.in) [/nitttrbhopal](https://www.nitttrbpl.ac.in) www.nitttrbpl.ac.in