

Pimpri Chinchwad Education Trust's **Pimpri Chinchwad College of Engineering**

Sector No. 26, Pradhikaran, Nigdi, Pune – 411 044



COURSE OUTLINE

Department: Mechanical Engineering A.Y.:2022-23 Sem-II Class: SY BTech Mechanical

Name of the Course: Computer Aided Machine Drawing II

Relevance of the course:

The Course Computer Aided Machine Drawing II provide a level of design depth that cannot possible through rough sketches or 2D designs, 3D modelling gives the improved control over details. It also **lets engineers explore the physical aspects of a design without surrendering to physical limitations**.

It provides the opportunity to the learners to apply the knowledge of GD&T and sign conventions in production drawing, assemblies and surface modelling using CAD software.

It requires the prerequisite knowledge from courses given below

- I. Engineering Graphics
- II. Basic Cad Software such as AutoCAD etc.

Course Outcomes

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СО	Statement	Method of direct	
		assessment	
C01	CREATE 3D assemblies that represent mechanical applications.	Hands on,	
		Assignment	
CO2	INTERPRET dimensioning, tolerance, and surface finish symbols	Quiz	
	from production drawing		
C03	APPLY geometric and dimensional tolerance, surface finish	Hands on	
	symbols in drawings		
CO4	CREATE Kinematic simulation for motion study.	Mini project	
	order in a manage of manage of motion study.	Time project	
CO5	CREATE surface models for mechanical components.	Hands on	

Practical Assignments:

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Sr. no	Experiments	Activity planned	
1	Assignment on assembly of the parts using proper constrained conditions and generation of exploded view.	Hands on	
2	Assignment on Assembly modeling for a product by	Assignment – hands	
	importing parts from free online resources	on	
3	Study, reading and generation of production drawing for	Quiz	
	given parts and assembly by applying required GD &T		
	symbol		
4	Create Kinematic simulation for assembly.	Mini Project	
5	Assignment on surface modeling of machine components	Hands on	

Course Faculties

Module CoordinatorDr.Abhay Lingayat

Mrs. J. P. Wagh Dr.Sujit Muley

Mr.Chandan R. Ingole (Course co-ordinator)

r.Sujit Muley