



**KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
DEPARTMENT OF MECHANICAL ENGINEERING**

CENTRE OF EXCELLENCE DETAILS

Laboratory Name : Center for Product Design and Development

Laboratory Incharge : Mr.G.Selvakumar

Lab Technician : Mr.M.Ajith



Figure : Center for Product Design and Development

Area of the laboratory: 74.81 Sq.m.

Objectives:

- Students will be able to enhance skill in SOLIDWORKS software for creating product models, design sketches, and detailed technical drawings.
- Identify the product and develop into model using SOLIDWORKS software.
- Develop innovative ideas and translate them into viable product concepts through additive manufacturing.
- Provide exposure to students with real-world industry environments and projects during the internship and consultancy works.
- Cultivate skills in project management within multidisciplinary teams, and handling real-world design constraints.



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Description:

- Centre for Product Design and Development has been established in the department during the academic year 2021-2022 with a mission of bringing Industry and Institution together by providing technical services.
- The Center for Product Design and Development is equipped with modeling software for developing industrial product models. Additionally, it offers students hands-on training in creating manufacturing drawings.
- The Center fosters student expertise in industrial product development and provides opportunities for project development.
- The CPDD offers students valuable opportunities to connect with industry professionals and prepares them for internships. It also provides SOLIDWORKS training, allowing students to earn international certification through the center, while offering a platform to transform their ideas into tangible products.
- CPDD is associated with TRYCAE Industrial Engineering Private Limited, Trichy, providing consultancy work to the students and faculty members. CPDD promotes research and development activities in the areas of modelling, testing and additive manufacturing and it gives placement assistance to the students.

Configuration details:

➤ **Equipment and Software details:**

Sr. No.	Name of the Equipment	Quantity
1	Server-HCL – Intel Core Xeon Processor 1500 GB HDD 8GB RAM 64 Bit Operating System	1
2	HP V22 V Monitor, HP Pro Twr 280 G9 PCI i712700 16GB/1TBPC, HP DP to HDMI 1.4 Adapter	35
3	Licensed software: Solid Works Education Edition 2022-23	60 Users
4	Crealty CR-10 Max 3D Printer	1
5	Virtual Reality set	1
6	3D vista VT pro software	1
7	Haier 165 cm (65 inch) Ultra HD (4K) LED smart Google TV	1

- UPS capacity: 10 KVA.

Laboratory Incharge

HOD