



**PSG COLLEGE OF TECHNOLOGY, COIMBATORE**

# **Mastering FreeCAD**

**A one day workshop for Engineering Professionals**

**9 DECEMBER, 2023**

**PEELAMEDU, COIMBATORE - 641 004**

## About the College



PSG College of Technology (PSGCT), an institution of academic excellence, established in the year 1951 by PSG & Sons' Charities, is an ISO 9001 - 2015 certified autonomous college affiliated to Anna University, Chennai. The college is accredited by NAAC with A grade and selected as a G20 institution. PSG institutions is one among the 75 educational institutions selected across India by Research and Information Systems for Developing Countries (RIS), an autonomous body of the Ministry of External Affairs, Government of India. Among the various Under-Graduate and Post-Graduate programmes offered by the college, as many as 18 programmes were accredited in the year 1997 itself by the National Board of Accreditation. The college is a recognized QIP centre for Post-Graduate and Ph.D programmes. The college has signed MoUs with research organizations and industries to promote closer interaction in the areas of technology development, student training, curriculum updation and establishment of state-of-the-art centers of excellence. Under the banner of PSG Industrial Institute, there are on-campus manufacturing units of machine tools, pumps, motors and off-campus foundry units. Furthermore, PSG Tech has established a very good network with industries, research institutes, alumni and entrepreneurs.

## About the FreeCAD

FreeCAD is a general purpose open source parametric 3D CAD modeller. FreeCAD is aimed directly at mechanical engineering and product design but, being very generic, also fits in a wider range of uses around engineering, such as architecture, finite element analysis, 3D printing, and other tasks. FreeCAD offers tools to produce, export and edit solid, full-precision models, export them for 3D printing or CNC machining, create 2D drawings and views of your models, perform analyses such as Finite Element Analyses, or export model data such as quantities or bills of materials. FreeCAD features tools similar to other popular CAD packages and therefore also falls into the category of CAD, PLM, CAx, CAE and BIM. It is a feature based parametric modeler with a modular software architecture making it possible to provide additional functionality without modifying the core system. As with other CAD modelers it has many 2D components in order to sketch planar shapes or create production drawings. FreeCAD is also fundamentally a social project, as it is developed and maintained by a community of developers and users united by their passion for FreeCAD. In precise FreeCAD is:

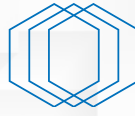
- Made to build for the real world
- A powerful solid-based geometry kernel
- A wi(l)dly parametric environment
- File formats frenzy
- A parametric constraints-based 2D sketcher
- A large (and growing) multi-specialty ecosystem

## About the Workshop

The workshop will be conducted through spoken tutorial videos of 10 minutes duration. After the workshop, a link for the video tutorials will be shared to the participants for further learning. As it is an open source software, FreeCAD can be used free of cost for educational and industrial design purposes. Participants of this workshop can install this software on their laptop during this workshop and take it with them. Target participants of this workshop includes: Practicing engineers, faculty members, research scholars and students.

## Organizing Committee

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Managing Trustee, PSG & Sons' Charities

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**Dr M R Pratheesh Kumar**

Associate Professor, Dept. of Production Engineering

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IIT Bombay

**Dr. N Sathiya Narayanan**

Assistant Professor III, School of Mechanical Engineering  
SASTRA University, Thanjavur

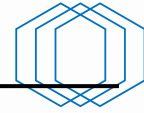
**Prof. R Jayendra Bharathi**

Assistant Professor II, School of Mechanical Engineering  
SASTRA University, Thanjavur

**Dr. V Rani Parvathy**

Assistant Professor - III, School of Chemical and Biotechnology  
SASTRA University, Thanjavur

## Registration details



The registration fee for the participants (Inclusive of GST) :

<b>Faculty members / Students /Research Scholars</b>	<b>: Rs. 900/-</b>
<b>Industry participants</b>	<b>: Rs. 1200/-</b>

No TA/ DA/ ACCOMMODATION will be provided.

Payment of registration fee for the workshop can be made through online mode

<b>Payment type</b>	<b>: Internet Banking</b>
<b>Account Number</b>	<b>: 1481267367</b>
<b>Account Holder</b>	<b>: PSG Centre for Non formal and Continuing Education (PSG CNCE)</b>
<b>Bank Name</b>	<b>: Central Bank of India</b>
<b>Branch Name</b>	<b>: Peelamedu</b>
<b>IFSC Code</b>	<b>: CBIN0280913</b>

Registration form to be filled in after making the registration fee payment.

<https://forms.gle/xqcQLSTnJcYLK2DNA>

Last date for registration : November 25, 2023



**For any queries, contact**  
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