



# 3<sup>rd</sup> Design Competition on Additive Manufacturing

February 18, 2025



Organized by CoE PIAM 3D, National Centre for Physics, Islamabad

## Scope of Competition:

3D design is the foundation of additive manufacturing, translating ideas into detailed digital models for precise fabrication. It enables customization, enhances design flexibility, and drives efficiency by enabling iterative testing and optimization before production.

In this competition, students are invited to design a specified part for 3D printing that meets given criteria, optimizing for minimum mass and maximum load capacity. The best CAD designs will be selected for printing at the PIAM3D facility. These 3D printed models will then compete for the top three positions, with winners chosen by a panel of expert judges.

## Eligibility:

Students (individual or a team of max 3 persons) currently enrolled in BS or MS program in the field of Mechanical Engineering or allied technologies at an accredited Pakistani university / Institute can participate in this contest.

## Design Problem:

Design Problem & its Criteria can be downloaded from website.

## Prizes:

Competition winners will be announced and cash prizes with certificates will be distributed on the event day. Certificate of participation will be given to all.

1st Place: Rs 55,000    2nd Place: Rs 35,000    3rd Place: Rs 25,000

## Patron-in-Chief

Dr. Qaisar Ahsan, DG NCP

## Director of Event

Dr. Aqeel Ahsan Khurram

## Event Coordinator

Ms. Sara Anwar

## Organizing Committee

Dr. Naveed Ahsan

Mr. Numan Ghazali

Mr. Hammad Nadeem

## Venue

National Centre for Physics  
(NCP), Shahdara Valley Road,  
Islamabad

## Important Dates

**Jan 15, 2025:** Deadline for Registration and submission of Design File (CAD Model) in .STL/.IGS/.STP format & Detailed Structural Analysis Report in PDF format on following link:

<http://www.ncp.edu.pk/dcam-2024.php> along with:

- University Reference letter
- Payment proof of Registration Fee (Rs 2500 per participant) to be deposited in following account:

**Account Title: Director National Centre for Physics**

**Branch Code: 0294**

**Account No: 00114487-01**

**Bank: Habib Bank Ltd, QAU Branch, Islamabad**

**Feb 18, 2025:** Competition Event will be held at NCP, Islamabad

## For Queries

Tel: 051-9006230, 2077348

Fax: 051-9006298

Email: [info-piam3d@ncp.edu.pk](mailto:info-piam3d@ncp.edu.pk)

## Mailing Address

Collaborations & Academic Activities Department (CAAD)  
NCP, Shahdara Valley Road, 44000, Islamabad

**Deadline**  
**Jan 15, 2025**