



4th Design Competition on Additive Manufacturing

March 31, 2026



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 the past Design Competitions held in 2022, 2023, and 2024, many students participated and gained valuable awareness about Additive Manufacturing (AM), along with exposure and linkage opportunities with industry. This design competition is an excellent opportunity for students to compete and enhance their understanding of design and gain further exposure to industry practices.

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 60,000 2nd Place: Rs 40,000 3rd Place: Rs 30,000

Important Dates

Feb 10, 2026: 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-2026.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

Mar 31, 2026: Competition Event will be held at NCP, Islamabad

Mailing Address

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

Patron-in-Chief

Dr. Qaisar Ahsan, DG NCP

Director of Event

Dr. Aqeel Ahsan Khurram

Event Coordinator

Ms. Sara Anwar

Mr. Ashiq Hussain

Organizing Committee

Dr. M. Naveed Ahsan

Mr. Numan Ghazali

Mr. Hammad Nadeem

Takeaways for Students

- Fundamental understanding of Additive Manufacturing
- Ability to apply design for additive manufacturing (DFAM) principles
- Competence in designing and modeling lattice structures
- Development in analytical and problem solving skills.
- Increased confidence in participating in national and international AM competitions.

Venue

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

For Queries

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Deadline
Feb 10, 2026