

ABOUT THE WORKSHOP

Department of Mechanical Engineering under the umbrella of Goa Chapter of Indian Institute of Metals (IIM) along with International Bauxite, Alumina and Aluminium Society (IBAAS) has scheduled a one-day workshop on Additive Manufacturing (AM-24: Basic & Advanced | Polymers & Metals).

The workshop is scheduled on Tuesday, 24-Sep, 2024 a day before the 12th International Bauxite, Alumina and Aluminium Society (IBAAS) Conference IBAAS 2024 (25-Sep to 27-Sep, 2024) at BITS Pilani, K K Birla, Goa Campus.

The workshop will cover basics and advanced techniques in additive manufacturing of polymers and metals for the Automobile, Aerospace and Healthcare applications. The workshop will serve as a melting pot for thought leaders, researchers, industry experts, and enthusiasts, converging to explore the vast potential and transformative power of additive technologies.

KEYNOTE SPEAKERS

- ❑ **Prof. K P Karunakaran** Mech. Engg. IIT Bombay
- ❑ **Mr. Arpit Sahu** Co-Founder & CEO Objectify Technologies

SPEAKERS

Prof. D M Kulkarni

- ❑ Enhance the part/product performance using high-performance polymers
- ❑ Innovative Fused Filament Fabrication Metal technology

Prof. Biswajit Das

- ❑ Modelling of residual stress in Laser Direct Energy Deposition and Laser Powder Bed Fusion technique
- ❑ Measurement of residual stress in AM parts

Prof. Iniyar Thiruselvam N

- ❑ Topology optimization in Additive Manufacturing
- ❑ Hands-on exercise on topology optimization in AM

Prof. Kiran D Mali

- ❑ Forge your dream projects with filaments
- ❑ Uncover advancements in filament technology

Prof. Anasuya Ganguly

- ❑ Basics of 3D bioprinting- printers, bioinks and cells
- ❑ Soft Tissue Engineering using 3D bioprinting
- ❑ 3D bioprinting for personalized medicine

Dr. Pushkar Kamble

- ❑ Sub-zero AM and its potential capabilities.
- ❑ Sub-zero AM's applications in the foundry
- ❑ Pixel-driven design for AM

IMPORTANT DATES

Registration (Early Bird)	Till 31-Jul, 2024
Registration (Late Fee)	1-Aug to 24-Sep 2024
Workshop	24-Sep, 2024

REGISTRATION

Category	Domestic (₹)
Industry Participants	3,000
Faculty / Research Scientists	2,500
Start-up / Lab Employees	2,000
Students (PhD, Masters, UG)	1,500

Group Discount

30% for a group of 5 members and 20% for a group of 3 members from the same organization in each category

Registration Fee Includes

Registration-kit, Digital Material of Lectures, Food (Tea breaks & Lunch)



For Registration:

Scan QR code
OR

Visit the link <https://t.ly/4EuTH>

Late Registration

Late Registration fee will be Rs. 500 more in each category from 1-Aug, 2024 till 24-Sep, 2024.

ORGANIZING COMMITTEE

Prof. D M Kulkarni , Convener

Prof. Biswajit Das

Prof. Iniyar Thiruselvam

Prof. Kiran D Mali

Prof. Anasuya Ganguly (Bio Sci)

Dr. Pushkar Kamble (Post Doctoral Researcher UTBM France)

SCHEDULE (Tentative)

9:15 AM Inauguration
9:30 AM Keynote Lectures
11:30 AM Tea Break
11:45 AM Lectures & Demonstrations
1:30 PM Lunch Break
2:30 PM Lectures & Demonstrations
4:30 PM Hands-on Topology Optimization , Image Processing
6:00 PM Valedictory | Certificates Distribution Feedback

VENUE

Seminar Room (DLT-9) | Grand-Spine
BITS Pilani K K Birla Goa Campus.



BITS PILANI K. K. BIRLA GOA CAMPUS



Workshop on Additive Manufacturing AM-2024

24th September, 2024

**Polymers & Metals | Basic & Advanced
Automobile | Aerospace | Healthcare**

*Let us delve into the Science, Engineering and
Technology of the AM revolution*



Organized by

Department of Mechanical Engineering in collaboration with Goa Chapter of Indian Institute of Metals (IIM)

Day before the 12th International Bauxite, Alumina and Aluminium Society (IBAAS) Conference IBAAS 2024

<http://ibaas.info/pre-conference-workshop>

CONTACT



am.workshop@goa.bits-pilani.ac.in



<https://www.bits-pilani.ac.in/goa/>

Learn pushing the boundaries of what is possible in the rapidly evolving field of AM

TAKEAWAY

1. Unique combination of lectures, video simulations and practical demonstrations
2. Insights into Cryo and Bio 3D printing
3. Demonstration on an economically viable substitute for traditional metal 3D printing for the first time in India
4. Hands-on: Topology optimization for 3-D Printing using Autodesk Fusion, Image Processing (2D Scans to 3D Stl)
5. Opportunities to network with industry professionals and academicians in the field

SPONSORSHIP

Exhibitors | Physical Showcasing of Products

A1	3M x 3M Furnished Cubicle	₹. 35,000
A2	3M x 2M Furnished Cubicle	₹. 30,000

Digital Showcasing Products/Services

B1	3 Minutes of a movie—clip	₹. 35,000
B2	2 Minutes of a movie—clip	₹. 30,000
B3	60 Seconds of a video—clip	₹. 15,000
B4	30 Seconds of a video—clip	₹. 10,000
B5	15 Seconds of a video—clip	₹. 5,000

Banners Showcasing Products/Services

C	Self-Standee 64" x 48"	₹. 4,000
---	------------------------	----------

Choose Option & Pay

<https://docs.google.com/forms/d/1W0jYzhXLuW1ZoXJ-hsZlktJ9ORno0TZcXVjM-E45C6U/edit>

BOARDING AND LODGING

On-Campus: Very Limited & First-cum-first-Serve

Transit Guest House (TGH) accommodation (9 Rooms):

A/C Room: Rs. 1200/- + 12% GST for 2 Persons

Non-AC Room: Rs. 800/- + 12% GST for 2 Persons

Hostel Rooms (Very Limited): 1 Room 1 Person: Rs. 200/-

Out of Campus:

Adequate lodging and boarding facilities are available within a radius of 10 km from BITS Goa. Public transport facility is available to the conference venue along with local taxis.

BITS Pilani

Birla Institute of Technology and Science, Pilani is a private deemed to be university established under sec 3 of UGC in 1964. BITS Pilani has always been a leader in providing excellent education – the eminent alumni and stellar faculty. In 2020, Ministry of Human Resources and Development, Government of India, identified BITS Pilani for the Institution of Eminence status. It has five campuses located in Pilani, Goa, Dubai, Hyderabad and Mumbai. QS WUR 2025: 801-850 | QS WUR Asia 2024: 215 | QS WUR Sustainability 2024: 444 (#1 among Indian Private Institutions)

K K BIRLA GOA CAMPUS

Nestling in the lap of verdant hills, overlooking the Zuari River and located 5.5.kms from the Goa Dabolim airport along national highway 17B, BITS Pilani, K K Birla Goa Campus is spread over an area of 180 acres. Established in 2004, the campus offers 11 First Degree, 6 Higher Degree and Ph.D. Programs

The campus has grown significantly in Sponsored research with 150+ ongoing projects, amounting Rs. 50+ Cr. The campus has also been funded under DBT BUILDER scheme, a BIRAC supported BioNEST incubator and BITS BioCyTiH Foundation (a technology innovation hub under NMICPS - DST). The Institute is committed to generating, disseminating, & preserving knowledge, and to working with others to bring this knowledge to bear on the world's great challenges.

DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering, K K Birla Goa Campus is considered to be one of the most diverse and versatile of the engineering disciplines. The faculty members in the department are actively involved in academic and sponsored research to solve various fundamental as well as applied problems. The department has been awarded DST FIST level B in the year 2023. The department has received funding from various national & international agencies. Currently, Department offers programs at different levels namely B.E. (Mechanical Engineering), M.E. (Design and Mechanical Engineering) and Ph.D.

QS WUR by Subject 2024 (Mechanical, Aeronautical & Manufacturing Engineering): 251-300.



BITS Pilani
Pilani | Dubai | Goa | Hyderabad

