



# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)  
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,  
New Delhi. Recognized by Government of Karnataka.

**A+, Accredited by NAAC & NBA (ECE & CSE)**

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka  
Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail.com

Date -20/02/24

To

IQAC Chairman

AIET, Mijar

Respected Sir

**Sub: Requesting for permission conduct a research methodology Seminar**

We are happy to inform you that Department of Mechanical Engineering, is planning to organize a technical Seminar on talk on 22/02/2024 for Mechanical Engineering, students .

The details are mentioned below, kindly request you do the needful.

**Resource Person Details**

**Name:** Dr. Daisuke Inao

**Designation:** Technical Faculty, Institute of Industrial Nanomaterials, Kumamoto University, Japan

**Title :** "Session on "Methodological Frameworks for Studying Explosive Phenomena and Their Applications"

**Venue:** CAMD LAB

**Date/month/year:**22/02/2024

**Mode :** ONLINE

  
HOD  
H. O. D.  
Dept. Of Mechanical Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODSIDRI - 574 225

  
Principal  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODSIDRI - 574 225, D.K



# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)  
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,  
New Delhi. Recognized by Government of Karnataka.

**A+, Accredited by NAAC & NBA (ECE & CSE)**

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka  
Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail.com

Aiet/Mech/AY2022-23/005

Date-20/02/24

## CIRCULAR

Students from Department of Mechanical Engineering are hereby informed to attend the Technical Seminar by Dr. Daisuke Inao, Technical Faculty, Institute of Industrial Nanomaterials, Kumamoto University, Japan

**Date: 22/02/2024**

**Title of the Talk:** : "Methodological Frameworks for Studying Explosive Phenomena and Their Applications

**Venue : CAMD LAB**

**MODE: ONLINE**



HOD  
H. O. D.

Dept. Of Mechanical Engineering  
Alva's institute of Engg. & Technology  
Mijar, MOODSIDRI - 574 225



Principal  
PRINCIPAL

Alva's Institute of Engg. & Technology,  
Mijar, MOODSIDRI - 574 225, D.K

Copy to

Principal table/Deans/HODs/AO/Office/---

# Technical Seminar Report On "METHODOLOGICAL FRAMEWORKS FOR STUDYING EXPLOSIVE PHENOMENA AND THEIR APPLICATIONS"

Date: 22/02/2024

Resource Person : Dr . Daisuke inao ,

Designation: Technical Faculty, Institute Of Industrial Nanomaterials, Kumamoto University,  
Japan

Explosive phenomena have significant implications across various fields, including defense, mining, engineering, and scientific research. Understanding the behaviour of explosives and their applications requires sophisticated research facilities equipped with state-of-the-art instrumentation and methodologies. This report delves into the advancements made in research facilities dedicated to studying explosive phenomena and their diverse applications.







Explosive phenomena have long captivated the attention of scientists, engineers, and innovators due to their immense potential and profound impact across numerous fields. From military applications to industrial processes and scientific research, the study of explosives and their behavior is paramount for advancing technology and ensuring safety. To delve deeper into the complexities of explosive phenomena and harness their applications, specialized research facilities have emerged as crucibles of innovation and discovery.

---

These research facilities serve as hubs of exploration, equipped with cutting-edge instrumentation, state-of-the-art laboratories, and interdisciplinary expertise. Their mission extends beyond mere observation, aiming to unravel the underlying mechanisms governing explosive reactions, optimize performance, and explore novel applications. As such, they play a pivotal role in shaping our understanding of explosives and driving advancements that transcend traditional boundaries.

In this introductory exploration, we embark on a journey through the diverse landscape of research facilities dedicated to explosive phenomena and their applications. From high-speed imaging laboratories capturing split-second events to expansive computational centers simulating complex detonation processes, each facility represents a nexus of scientific inquiry and technological innovation. By shedding light on these facilities, we aim to uncover the essential infrastructure driving advancements in explosives research and pave the way for transformative applications in the realms of defense, industry, and beyond.

Research facilities dedicated to explosive phenomena and their applications have evolved significantly, driven by advancements in technology and interdisciplinary collaboration. High-speed imaging, shock physics laboratories, computational modeling centers, explosives chemistry laboratories, field test sites, and collaborative research networks collectively contribute to advancing our understanding of explosives and enhancing their diverse applications across various industries. Continued investment in research infrastructure and collaborative efforts will further propel innovations in this critical field.

---

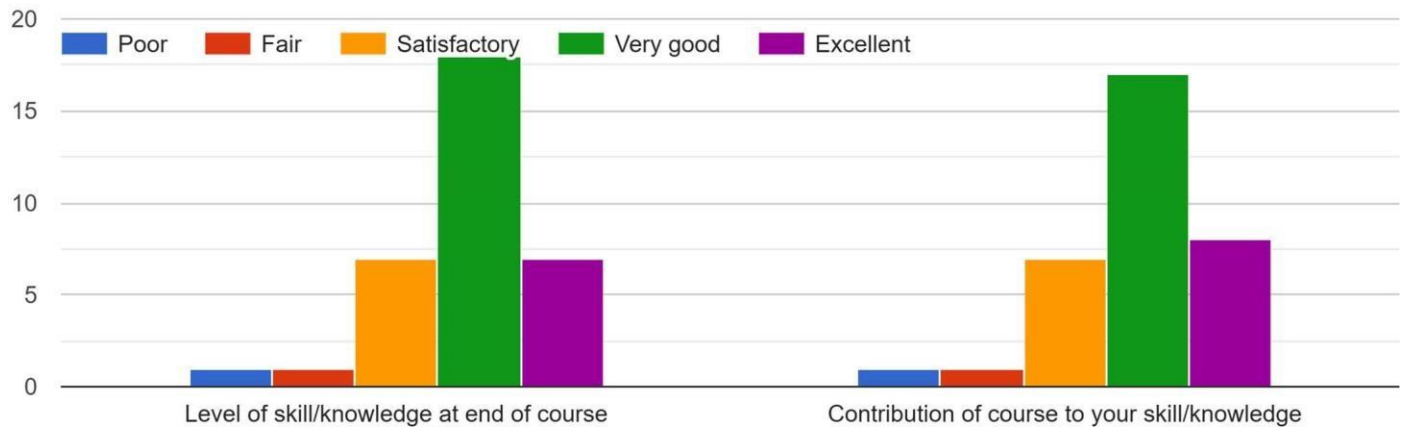


# TECHNICAL TALK ON "Research Facilities For Explosive Phenomena And Their Applications"

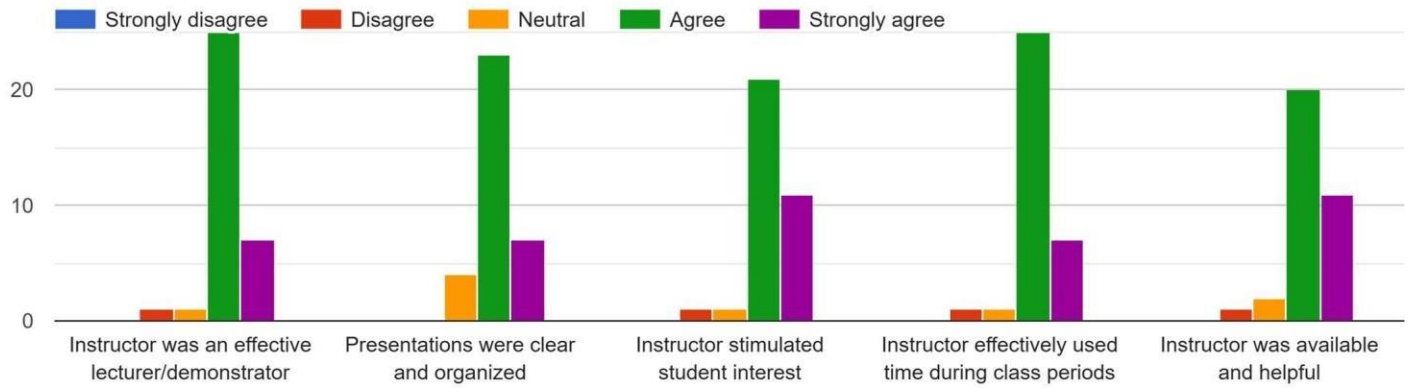
Dept. of Mechanical Engineering



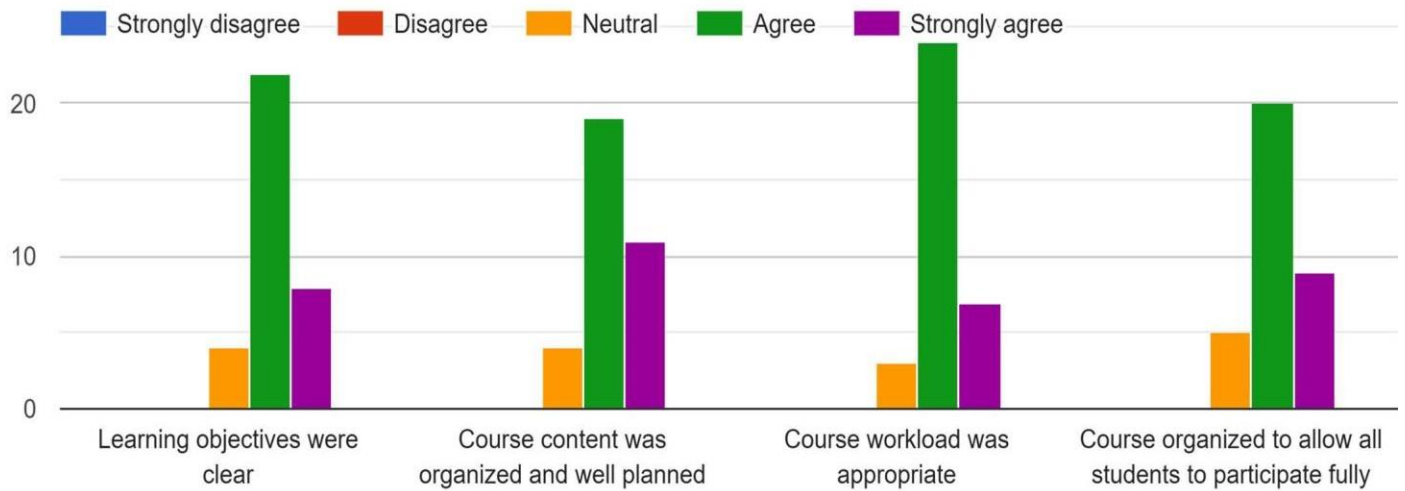
Contribution to learning



### Skill and responsiveness of the instructor



### Course content



  
**H.O.D.**  
 Dept. Of Mechanical Engineering  
 Alva's Institute of Engg. & Technology  
 Mijar, MOOBBIDRI - 574 225