



ANRF sponsored Two Days Workshop on

WIDE BANDGAP SEMICONDUCTORS FOR POWER ELECTRONICS

13- 14 November, 2025

**Under Scientific Social Responsibility Activities (SSR),
Anusandhan National Research Foundation, Govt. of India**

(Project No. CRG/2023/002415)

Organized by

Department of Physics,

Indian Institute of Technology (Indian School of Mines) Dhanbad,

Dhanbad-826004, Jharkhand

About the Workshop

The two-days workshop on Semiconductor Materials and Technology aims to bring together researchers, academicians, and industry professionals to discuss recent advancements, challenges, and future prospects in semiconductor technology. Sponsored by the ANRF, the workshop will focus on cutting-edge research areas and practical applications in semiconductor materials and their technological implications in various domains.

Themes of the Workshop

- Wide bandgap Semiconductor Materials
- Synthesis and characterization techniques
- Novel materials for electronic and optoelectronic devices
- Power electronics, Technology and Applications

Objectives

Science and Technology have been an integral part of Indian civilization and culture over the past several millennia. Earlier S&T policies had emphasized the utilization of science for the welfare of the people. However, the new India with its vibrant young populace is a country of ambition and rising aspiration, requiring a renewed emphasis on the integration of S&T with society at both the institutional and individual levels. Indian science emphasized upon the need for inculcating **SSR** for engaging science for societal welfare. This necessitates developing a framework to facilitate the integration of science and society and build synergy among the stakeholders thereby ensuring transfer of scientific knowledge for the benefit of society

About Indian Institute of Technology (ISM) Dhanbad

Indian Institute of Technology (Indian School of Mines) Dhanbad is a fully residential technical institute having all modern facilities located in the mineral-rich belt of India in the major coal city of Dhanbad, Jharkhand, India. It was established as ISM in 1926 on the lines of the Royal School of Mines, London. IIT (ISM) Dhanbad, an Institute of National importance, has been rendering invaluable service to the cause of global education and societal development in its nine long decades of existence. Keeping in tune with the changing times a need has been realized for further expansion and diversification. IIT (ISM) has grown into a full-fledged technical institution with 18 departments offering a wide range of courses in Engineering, Science, Management, Humanities and Social Sciences at UG, PG and Ph.D. levels. IIT (ISM) admits students through IIT-JEE and GATE Entrance Exam in various courses of the respective departments.

For Target Participants

- ✓ Our aim is to give training to college faculty (teaching UG/PG students), so that they disseminate the knowledge to students to make them ready with some basic understanding of advanced techniques and to be better prepared for their career goals. This may also facilitate the college faculties to undertake some projects in future.
- ✓ Number of Seats: **25 participants** should be ensured for conduct of the workshop
- ✓ Registration Fee: No registration fee (limited seats) Selected candidates will be notified via email
- ✓ Certification Attendees will be given E-certificate.

Allowances: Please note that **TA/DA or accommodation will not be provided**. However, refreshments and a **working lunch will be arranged** for all participants during the workshop.

Last date for receipt of applications: 05th November 2025

Intimation to selected candidates: 6th November 2025

Workshop Coordinator:

Dr. R. THANGAVEL,
Associate Professor,
Department of Physics,
Indian Institute of Technology (ISM) Dhanbad,
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Registration Form

Name: Dr. / Mr. /Mrs. /Ms. _____

Designation: _____

Institutional Affiliation: _____

Institutional Address: _____

Present Academic Degree being pursued, if any:

Please state whether in (tick): Guest / Ad-Hoc / Contractual / SACT / Substantive position /
Other

Nationality: _____ Sex: _____ Age: _____

Telephone No.: _____ Email ID: _____

Food Preference (tick): Vegetarian / Non-Vegetarian

No. of Published Papers in last five years, if any- Total:

In SCI, WoS, Scopus listed Journals:

Kindly list your main publications in the last five years, if any (most recent one first):

1.

2.

3.

4.

Date: _____

Place: _____

Signature: _____

Recommendation from the Head of the Department/Institution

It is certified that the information provided above is verified and correct. The applicant is recommended to attend the workshop at IIT(ISM) Dhanbad during 13-14 November 2025.

Signature of the recommending authority
(With seal and date)

Kindly email the filled-out form by 5th November, 2025. Please contact regarding any queries to:

Workshop Coordinator:

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Department of Physics,
Indian Institute of Technology (ISM) Dhanbad,
Dhanbad-826 004, Jharkhand, India.
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