

FDP COMMITTEE

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Mrs. Babita Singh



CHIEF COORDINATOR

**Dr. Rabinarayan Sethi, Asst. Prof. (Selection Grade)
COORDINATORS**



Dr. Sudhakar Majhi (Assistant Professor)



Dr. Manoj Kumar Muni (Assistant Professor)

ABOUT THE INSTITUTE

Established in 1982, Indira Gandhi Institute of Technology (IGIT), Sarang, is a premier technical institution in Odisha offering Diploma, Undergraduate, Postgraduate, and Ph.D. programmes in Engineering and Science. The institute is committed to quality education, research, and innovation, with programs accredited by NBA and the institution accredited by NAAC. IGIT regularly organizes conferences, workshops, and faculty development programmes to promote knowledge dissemination and industry-academia interaction. Its distinguished alumni occupy leadership positions in academia, industry, and entrepreneurship across India and abroad.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at IGIT Sarang is equipped with modern infrastructure, state-of-the-art laboratories, and advanced experimental facilities to provide high-quality technical education and research opportunities. The curriculum is regularly updated to align with emerging technologies and global industry requirements, enabling graduates to excel in diverse professional environments.

The department offers B.Tech., M.Tech. (Mechanical System Design, Production Engineering, and Thermal Engineering), and Ph.D. programmes under various categories. Graduates have opportunities to pursue careers and higher studies in areas such as Machine Design, Manufacturing, Thermal Engineering, Industrial Engineering, Robotics, CAD/CAM, Flexible Manufacturing Systems, Energy Studies, and related fields.

A notable strength of the department is its Condition Monitoring and Machine Diagnostics Laboratory, which supports cutting-edge research in machinery health monitoring, vibration analysis, artificial intelligence, and smart sensing technologies. The laboratory has successfully executed several externally funded research projects under the leadership of Dr. Rabinarayan Sethi, including:

Structural Diagnosis of Concrete Structures and Industrial Infrastructure Using an Autonomous Underwater Robot (in collaboration with IIT Guwahati Technology Innovation and Development Foundation).

Intelligent Condition Monitoring through Advanced Sensor and Computational Technology of High-Speed Bearing Systems for Induction Motor Drives, sponsored by the Anusandhan National Research Foundation (ANRF), New Delhi.

Development of an Intelligent Health Monitoring Technique by Similarity Estimation for Composite Bearings Used in Biotechnology Engineering Machinery Applications, sponsored by the Science & Technology Department, Government of Odisha.

The department takes pride in its accomplished alumni, many of whom hold leadership positions in industries, research organizations, and entrepreneurial ventures in India and abroad.



**ANRF-SPONSORED ONE-WEEK HYBRID FACULTY
DEVELOPMENT PROGRAMME (FDP)**

ON

**CONDITION MONITORING OF BEARING
SYSTEMS FOR ROTATING MACHINES**

22th to 26th June 2026

(CMBRM-2026)

E-Mail: cmbm2026@gmail.com



अनुसंधान नेशनल रिसर्च फाउंडेशन
**ANUSANDHAN NATIONAL
RESEARCH FOUNDATION**



**Indira Gandhi Institute of Technology Sarang,
(AN AUTONOMOUS INSTITUTE OF GOVT. OF ODISHA)
Dhenkanal, Odisha, 759146, India.**



REGISTRATION

REGISTRATION FEE:

NO CHARGE FOR REGISTRATION

ELIGIBILITY:

THE PROGRAMME IS OPEN TO ALL MEMBERS OF AICTE/UGC AFFILIATED INSTITUTES/UNIVERSITIES FACULTY MEMBERS/INDUSTRY EXPERTS.

SELECTION AND CERTIFICATION CRITERIA:

THE MAXIMUM NUMBER OF PARTICIPANTS IS LIMITED TO 100 ON FIRST COME FIRST REGISTERED BASIS AND THE CONFIRMED CANDIDATE WILL BE NOTIFIED LATEST BY 19TH JUNE 2026. THE CERTIFICATES SHALL BE ISSUED TO ALL THE ACTIVE PARTICIPANTS.

HOW TO APPLY:

THE PARTICIPANTS HAVE TO SUBMIT DULY FILLED REGISTRATION FORM WHICH IS ALSO AVAILABLE ON THE LINK ON OR BEFORE 18TH JUNE 2026.

REGISTRATION LINK:

<https://forms.gle/ykSMRH13n5Quj9mg9>

WHATSAPP GROUP INVITATION LINK:

<https://chat.whatsapp.com/HBLmDoVQuRv0ttX9o9UIOA?s=cl&p=a&mmlu=4>



ABOUT FACULTY DEVELOPMENT PROGRAMME(FDP)

The Department of Mechanical Engineering, IGIT Sarang, is organizing an ANRF-sponsored One-Week Faculty Development Programme (FDP) on "Condition Monitoring of Bearing Systems for Rotating Machines (CMBRM-2026)" from 22-26 June 2026 under the Scientific Social Responsibility (SSR) initiative. The programme is being conducted as an outreach activity of the ANRF-funded research project, "Intelligent Condition Monitoring through Advanced Sensor and Computational Technology of High-Speed Bearing Systems for Induction Motor Drives," led by Dr. Rabinarayan Sethi, Principal Investigator.

The FDP aims to provide participants with insights into modern condition monitoring techniques, fault diagnosis, vibration analysis, advanced sensor technologies, signal processing, and artificial intelligence-based predictive maintenance of rotating machinery. The programme will also offer participants an opportunity to interact with researchers and gain exposure to the advanced experimental facilities and research activities developed under the ANRF-sponsored project.

Through expert lectures, technical sessions, laboratory demonstrations, and interactive discussions, the FDP will enhance the knowledge and research capabilities of faculty members, researchers, industry professionals, and postgraduate students. The programme is expected to promote collaborative research, industry-academia interaction, and innovation in machinery health monitoring, diagnostics, and smart maintenance technologies aligned with Industry 4.0.

RESOURCE PERSONS

Faculty members/ Scientist/industry experts from Premier Institution and reputed industries will focus on Mechanical Vibration, Condition Monitoring and Artificial techniques.



OBJECTIVE OF FDP

The key objectives of the programme are:

- ❖ To create awareness about the importance of condition monitoring and predictive maintenance in rotating machinery.
- ❖ To provide knowledge of vibration analysis, signal processing, smart sensors, and fault diagnosis techniques.
- ❖ To familiarize participants with recent advancements in AI-based condition monitoring and intelligent maintenance systems.
- ❖ To provide exposure to advanced laboratory facilities and ANRF-sponsored research activities on bearing health monitoring.
- ❖ To facilitate interaction among academicians, researchers, and industry experts for knowledge sharing and collaborative research.

CONTACT FOR FURTHER INFORMATION:

Coordinators (CMBRM-2026)

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