

REGISTRATION FORM

VGST Sponsored FDP on

"Nanotechnology and its role in Automotive Industry"

Dates: 18/09/2024 to 21/09/2024

Name: _____

Qualification: _____

Designation: _____

Department: _____

Name of the Institute: _____

Experience (in year): _____

Teaching: Research: Industry:

Mobile No.: _____

Email: _____

Accommodation Required? YES / NO

Declaration by the Candidate:

I hereby declare that the information provided is true to the best of my knowledge. I agree to abide by the rules and regulations governing the program. If selected, I will attend the entire course.

Place:

Date:

Signature of the Applicant

Dr./Mr./Mrs./Miss. _____

is deputed to attend the FDP from 18th to 21st Sept-2024.

Signature of Principal with Seal

REGISTRATION:

* No registration fee

* The number of participants is limited to 45, the selection is based on first-come, first-serve.

REGISTRATION LINK:

<https://forms.gle/N1pWHuJKYgm3xXwL6>



IMPORTANT DATES:

Last Date for Registration: 07.09.2024

Intimation of Selection to the participants: 10.09.2024

CHIEF PATRONS

Dr. Yashvanth Bhupal, Chairman, BITM

Mr. Y.J Prithviraj Bhupal, Director, BITM

PATRONS

Dr. Yadavalli Basavaraj, Principal, BITM

Dr. B.S. Khened, VP / Dean (ACA), BITM

CONVENERS

Dr. V. Venkata Ramana, Professor & HOD

Dr. Raghavendra Joshi, Professor & COE

COORDINATOR

Mr. Irayya Shikkerimath, Assistant Professor, ME Dept.

ORGANIZING COMMITTEE

Dr. B Ganesh, Associate Professor

Dr. Lakshmi Kumari, Associate Professor

Dr. Manjunatha T H, Associate Professor

Dr. Shivarama Krishna A, Assistant Professor

Dr. Pavan Kumar B K, Assistant Professor

Dr. Santhosh V Janamatti, Assistant Professor

Mr. Vishnu Prasad B, Assistant Professor

Mr. B Jayaprakash, Assistant Professor

Mr. V Srinivasulu, Assistant Professor

Mr. K Raghavendra, Assistant Professor

Mr. Mohammed Fayaz K, Assistant Professor

Mr. B P Vijay Kumar, Assistant Professor

Mr. Mayur D Pawar, Assistant Professor

Mr. Shiva Kumar S Y, Assistant Professor

Mr. Raghavendra Karnool, Assistant Professor

Mr. Raghavendra Shetty, Assistant Professor

Mr. Kalyan Babu, Assistant Professor

Mr. K C Venkatesh, Assistant Professor

Mr. Manjunath E, Assistant Professor

Mr. B Maharaja Gouda, Assistant Professor

Mr. Gavisiddesha P, Assistant Professor

Mr. Taranath A, Assistant Professor

Mr. K Rajashekar, Assistant Professor

FURTHER QUERIES, CONTACT:

Dr. Shekar K, Assistant Professor: 9986916091

Dr. Banakara Nagaraj, Associate Professor: 9845414070

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Basavarajeswari Group of Institutions

BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT, BALLARI, KARNATAKA

Autonomous Institute under VTU, Belagavi

Four-Day Faculty Development Program on

Nanotechnology and Its Role in Automotive Industry

18-21, Sept. 2024



Organized by:



Department of Mechanical Engineering

Sponsored by:

Vision Group of Science & Technology, Bengaluru



BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

(A Unit of T.E.H.R.D. Trust ©) NBA* & NAAC A+ and ISO 9001:2015 Certified Institution

(Recognized by Govt. of Karnataka, Approved by AICTE, New Delhi)

"Jnana Gangotri" Campus, #873/2, Ballari-Hosapete Road,
Near Allipura, Ballari - 583 104 (Karnataka)



www.bitm.edu.in

About the College

BITM is an Autonomous Institute affiliated to VTU, Belagavi, established in 1997 under TEHRD Trust, accredited by NBA and awarded A+ Grade in NAAC, also certified by ISO 9001:2015. BITM plays a vital role in nurturing world-class Engineers and Management professionals tailored to the rapidly evolving technological and managerial landscape. Consequently, BITM stands as one of Karnataka's premier technical institutions. Its strength lies in its accomplished, highly proficient, and experienced faculties who possess deep subject knowledge and commitment to staying abreast of the latest developments in emerging fields. The institute prides itself on its unparalleled student-teacher relationships and its unique Outcome-Based Education approach. To bridge the gap between academia and industry, BITM has forged collaborations with various industries, establishing Centres of Excellence, Incubation Centres, and Technology Learning Centres, thereby fostering robust Industry-Institute Partnerships. Regularly the campus conducts career guidance sessions, imparts communication skills, and offers personality development programs to equip students for success in professional arena.

About the Department

The Department of Mechanical Engineering was established in 1997 and accredited by the NBA, offering a Bachelor of Engineering (BE) program and a PhD program. It has been recognized as a VTU Research Centre. The curriculum is structured to be outcome-based, facilitating students in achieving their goals. The department is committed to providing quality teaching, outstanding research and development, managing funded projects sponsored by organizations such as KSCST, AICTE, VGST, KCTU, and DST. Regular training programs, invited talks, and workshops are organized by the department.

About FDP

Nanotechnology is playing an increasingly significant role in the automotive industry. Development of nano based advanced, lighter materials with superior properties enhance various aspects of vehicle performance, safety, and manufacturing while improving fuel efficiency as well.

This nano technology aids in production of advanced sensors and electronic components that are smaller, more sensitive, and more reliable applied in advanced driver-assistance systems (ADAS), collision avoidance, and real-time monitoring of vehicle performance. Further, contributed to development of advanced airbag systems, improved impact-resistant materials, and advanced nano-coated glass for better visibility and reduction of glare.

The nano technology can improve thermal management for efficient dissipation of heat from engines. Advanced nano coatings for automotive surfaces provide improved scratch resistance, better corrosion protection, and self-cleaning properties reducing maintenance.

In electric vehicles (EVs), nanotechnology plays a crucial role in improving battery performance. Overall, nanotechnology is helping the automotive industry advance towards more efficient, safer, and environmentally friendly vehicles, contributing to both performance improvements and cost reductions.

Topics:

- * The role of nanotechnology and nano materials in design and development of automotive and aerospace products.
- * Nanotechnology in Automotive steels.
- * Use of nanomaterial's in Bio-Composites for low load applications in the Automotives.
- * Nanotechnology for automotive application: Opportunities and Challenges.
- * Development of nano-structure for metal 3D printing.
- * Effect of nano-structure for metal 3D printing.

Resource Persons:

DR. MAADEV NAGARAL

Manager (Design)
Aircraft Research and Design Centre
Hindustan Aeronautical Limited
Bengalure-560037

DR. D. SATISH KUMAR

Research and Development
JSW Steel Ltd, Vijayanagar Works, Ballari

DR. RAM PRABHU

Scientist and Joint Director
Defence Research & Development Organization
Govt of India.

DR. GIRISHA L

Prof. & Head, Dept. of Mechanical Engineering
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Sagar Road, NH-206, Shivamogga-577204

DR. ASHOK R. BANAGAR

Assistant Professor, Dept. of Mechanical Engineering
PES Institute of Technology and Management
Sagar Road, NH-206, Shivamogga-577204

DR. AMARANTH MUNIYAPPA

Assistant Professor, Dept. of Mechanical Engineering
Indian Institute of Information Technology
Design & Manufacturing Jabalpur-482005, MP.

Who can attend the FDP:

This program is open to Faculty Members, Research Scholars from AICTE recognized Institutions / Universities and Industry Personnel.