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Dr. Nilakantha Sahu
Dr. Dinesh Kumar Mishra
Dr. Renu Prava Dalai
Dr. Manila Mallik
Mr. Gautam Behera
Ms. Subhadra Sahoo
Mr. Gourahari Behera

About the University

VSSUT Burla is the premier unitary technical university in the state of Odisha, established in the year 2009 after upgradation of the first engineering college of the state (University College of Engineering, Burla – Estd. 1956). The university is situated at the foot of world famous Hirakud Dam in a beautiful natural surroundings of river, lakes and mountains. VSSUT acts as an academic and research hub by promoting quality technical education for the society in collaboration with closely located reputed educational institutions like Sambalpur University, V S S Institute of Medical Sciences & Research and emerging industries like Hindalco, MCL, Vedanta, Bhushan Steel etc. to name a few. The university has more than 15 departments offering 10 B. Tech., 7 M. Tech., 4 M. Sc. programmes in diversified disciplines of engineering and sciences with a special focus on Ph. D. research on emerging and advanced areas. The university has currently 4400+ students, 300+ sanctioned faculty strength, 500+ support staffs and 20000+ graduating students (alumni).

About the Department

The Department of Metallurgical & Materials Engineering (MME) at VSSUT Burla, established in 2013, is a unique initiative in the present science and technology education and research scenario of India. This Department is devoted to the design, creation and fundamental understanding of materials that are capable of enhancing the human experience. At present; the department offers a 4-year undergraduate course, Post-graduate and PhD programme in engineering. Currently, the focuses of department activities are multi-directional with an emphasis on both research and education. Even at its incipient stage, the department has drawn a road map to progress via partnership. Accomplishments in this direction include: (a) Collaboration with the Institute of IITS and NITS; (b) Setting up a collaboration with different government research organization like Defense Research Development Organization and National Metallurgical Laboratory (NML), Jamshedpur; IMMT Bhubaneswar (c) and also collaborating with other metallurgical industries like Steel, Aluminum and Iron to bridge the gap between theoretical knowledge and real world industries requirements.

On the eve of Platinum Jubilee Celebration

National Conference on
“MATERIALS, MODELLING,
MANUFACTURING, AND
MEASUREMENTS” (NCM⁴- 2026)

13th-15th March 2026

Organized by

Department of Metallurgical and
Materials Engineering



Veer Surendra Sai University of Technology
Siddhi Vihar, Burla,
Odisha – 768018, India
<http://www.vssut.ac.in>

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Broader areas

- Mineral Beneficiation for Metal Industries
- Green Steel Production
- Stainless and Special Steels
- Advances in Non-Ferrous Metals
- Critical Minerals Processing
- Advanced Materials for Defense and Strategic Sector
- Materials Designing
- Welding Technology
- High Temperature Materials
- FRP Composites
- Advanced Polymer & Ceramic Materials
- Metal Matrix Composites
- Bio and Functional Materials
- Recycling and Reuse of Materials
- Corrosion & Degradation
- Surface Engineering
- Materials Characterization
- NDT of Materials
- Semiconducting and Magnetic Materials
- Nanostructured Materials
- Smart Materials
- High Entropy Alloys
- Bulk Metallic Glasses
- Additive Manufacturing
- Texture in Metals and Alloys
- Materials for Energy Storage
- Energy Materials
- AI/ML in Materials Engineering
- Modelling and Simulations in Materials Engineering

Theme of the Conference

The conference seeks to foster strong industry-academia partnerships, encourage technology transfer, and promote sustainable and impactful research for the advancement of materials engineering.

Registration

Interested participants from industry, academic and research community are required to submit a filled registration form in prescribed format along with the registration fees in the form of Cash/DD/NEFT/Googlepay drawn in favour of “NCM4-2026” Account no: 110288401360 payable at Canara bank, VSSUT, Burla, IFSC Code: CNRB0018062 on or before 1st March 2026. Use the QR Code or below link for registration.

<https://forms.gle/ps1ifGZ5jiR7esA7>

There is no TA, DA but accommodation for the outside participants will be made available on charge basis. Limited accommodation is available in the Institute Guest House on chargeable basis. However, the participants may get the list of nearby hotels by sending a request mail to convener of this workshop. Selected abstracts are intimated through email on or before 1st March 2026. **Registration fee includes conference kit, Conference materials, participation certificate, High tea and grand dinner.**

Important Dates

Last Date for Abstract and Full Paper Submission: **20 February, 2026**
Acceptance Notification: **1st March, 2026**
Registration Payment: **1st March, 2026**
Conference Dates: **13th – 15th March, 2026**

Registration Fee

Category	Fee
Research Scholar/ Student/Faculty/ Industry Person (IIM /BIS Members)	NIL
Research Scholar/ Student/ Faculty (VSSUT)	500/-
Research Scholar / Student (Others)	500/-
Academician / Faculty Member / Industry Person	1000/-

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13th - 15th March 2026

Scan this QR Code for Registration



Please fill this registration form on or before **1st March 2026** by scanning the **QR code**. The details and the form of the conference can be downloaded from <http://www.vssut.ac.in>

For any Query

Contact

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The Bureau of Indian Standards (BIS) workshop on **“Standardization in Effective Manufacturing” (SEM- 2026)** is designed to align India's manufacturing sector with global quality benchmarks and the government's "Make in India" initiative.

The broader areas covered in this workshop typically focus on the intersection of emerging technologies, quality infrastructure, and sustainable industrial practices.

1. Digital Transformation & Industry 4.0

A core pillar of the workshop is the integration of digital tools into the manufacturing lifecycle. Key sub-areas include:

Smart Manufacturing: Implementation of **SMART Standards** (Standards Machine Applicable, Readable, and Transferable) to automate compliance.

Digital Twins: Using standardized virtual models to simulate and optimize factory floor performance.

IoT & Interoperability: Standards for communication between machines (M2M) and cross-platform data exchange.

2. Quality Infrastructure & Global Alignment

To increase India's export potential, the workshop emphasizes harmonizing local standards with international ones.

Global Harmonization: Aligning Indian Standards (IS) with ISO and IEC to reduce technical barriers to trade.

Conformity Assessment: Strengthening testing, inspection, and certification (TIC) protocols to ensure "Zero Defect" production.

Quality Control Orders (QCOs): Discussion on the expanding scope of mandatory certifications for industrial and consumer goods.

3. Sustainability and Circular Economy

With the 2026 focus on "Fostering a Sustainable World," the workshop covers:

Green Manufacturing: Standards for reducing carbon footprints and improving energy efficiency in heavy industries.

ESG Compliance: Integrating Environmental, Social, and Governance (ESG) standards into the manufacturing supply chain.

Waste Management: Standardizing processes for industrial recycling and the use of eco-friendly raw materials.

4. Sector-Specific Standardization

The workshop drills down into critical growth sectors that require specialized regulatory frameworks:

Automotive & E-Mobility: Standards for EV batteries, charging infrastructure, and safety components.

Electronics & IT: Focus on semiconductor manufacturing, hardware security, and AI-driven quality analytics.

Chemicals & Materials: Standards for advanced polymers, aerospace materials, and specialty chemicals.

5. Process Innovation & Modernization

Beyond product quality, the workshop addresses the "How" of manufacturing:

Online Standards Development (OSD): Training on collaborative digital platforms for faster standard formulation.

Lean Manufacturing: Standardizing "Lean" methodologies to reduce waste and improve operational efficiency.

Risk Management: Implementing standardized frameworks to mitigate supply chain disruptions.

Registration

Interested participants from industry, academic and research community are required to submit a filled registration form in prescribed format. Use the below link for registration:

<https://forms.gle/6q2ShjV19DJEWcM69>

No registration fee. The participants applying for NCM4 – 2026 can also participate in the workshop.

Important Dates

Last Date of Registration: **1st March, 2026**

Workshop Date: **14th March, 2026**

On the eve of Platinum Jubilee Celebration

Workshop on

“Standardization in Effective Manufacturing” (SEM- 2026)

14th March 2026

Organized by

Department of Metallurgical and Materials

Engineering

In collaboration with

Bureau of Indian Standards



Bureau of Indian Standards

The National Standards Body of India



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