

**CERTIFICATE COURSE AND WORKSHOP ON
MECHANICAL TESTING OF MATERIALS
February 25th -March 1st, 2023**

Registration Form:
(Kindly scan the adjoining QR Code for online submission)

(Single form for Multiple participants of an organization can be used)

1. Name in Block Letters: _____
2. Educational Qualification: _____
3. Designation: _____
4. Organization: _____
5. Address: _____
6. E-mail: _____
7. Mobile: _____
8. D.D. / Cheque No./Date: _____
UTR/Transaction ID (online payment) _____
9. Are you interested to bring test specimen: YES /NO
10. Specific expectations from the Course, Workshop:

I recommend the registration for the above member for the
**CERTIFICATE COURSE AND WORKSHOP ON
MECHANICAL TESTING OF MATERIALS**

Signature of the Competent Authority/ Head
(with Institute seal)

Patron
Prof. P. M. Padole, Director, VNIT Nagpur

Head of the Department:

Prof. Jatin G. Bhatt



Advisory Committee:

Prof. S.U. Pathak, Former Professor, VNIT

Prof. R.K. Paretkar, Former Professor, VNIT

Dr. Anupam Agnihotri, Director, JNARDDC, Nagpur

Prof. D.R. Peshwe, Professor, VNIT

Conveners:

Prof. Atul Ballal

atulballal@mme.vnit.ac.in; 98603 82899

Dr. Manjusha Thawre

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Dr. Anil Kumar

kumar.anilsah14@mme.vnit.ac.in, 74777 43222

Notes:

1. Exam will be conducted at the end of the workshop to distribute the course completion certificate
2. Course – Workshop Time – 2:30 PM – 7:30 PM each day



**CERTIFICATE COURSE AND WORKSHOP
ON
MECHANICAL TESTING OF MATERIALS**

February 25th -March 1st, 2023

Organized by:



Department of Metallurgical & Materials Engineering
Visvesvaraya National Institute of Technology,
Nagpur

In association with:
Indian Institute of Metals (IIM) Nagpur Chapter



About the Workshop:

Materials are an integral part of technological development and play a vital role in a variety of engineering applications. Interestingly, good knowledge of material characterization techniques allows researchers to identify material behavior in certain service conditions. Being conversant with mechanical characterization of materials is very important and beneficial for the personnel in several industries including manufacturing. This allows engineers/researchers to predict failures, behaviors and tendencies of materials during forming processes. Also, evaluation of mechanical properties can aid in the decision-making process for material selection by quantifying the information.

This workshop shall provide basic knowledge about various mechanical characterization techniques to the personnel from industries and corporate offices. The workshop focuses on translating complex principles and procedures into easy-to-understand terms that will enable participants to gain valuable understanding of metallurgy/materials, basic properties and their evaluation with hands-on experience on state-of-the-art equipment.

Topics/ Tentative Schedule:

- Day 1 – Tensile testing
- Day 2 – Creep testing
- Day 3 – Hardness and Impact testing
- Day 4 – Low cycle fatigue testing
- Day 5 - High cycle fatigue testing, Analysis, Exam

(Every session will start with a lecture by the expert followed by hands-on experimental session including data interpretation and analysis.)

Tests (tensile, creep, LCF) will be performed at room temperature as well as high temperature.

Participants may bring their own sample, if interested.

Eligibility Criteria:

Participation in this workshop is open to industrial professionals who wish to gain basic understating of the concepts, practice, and analysis involved in the mechanical testing of materials.

About the Institution:

Visvesvaraya National Institute of Technology (VNIT), Nagpur is one of the leading National Institutes of Technology in the country. The Govt. of India conferred on the Institute, the Deemed to be University status (under University Grants Commission Act, 1956 (3 of 1956) with effect from 26th June 2002. Subsequently, the Central Govt. by Act of Parliament (National Institutes of Technology Act, 2007 (29 of 2007)) declared VNIT Nagpur as an Institute of National Importance along with all other NITs. The Act was brought into force from 15th August 2007. Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt. of India and Govt. of Maharashtra. The college was started in June 1960 by amalgamating the State Govt. Engineering College functioning at Nagpur since July 1956. In the meeting held in October 1962, the Governing Board of the College resolved to name it after the eminent engineer, planner, and statesman of the country Bharat Ratna Shri M. Visvesvaraya. It has a beautiful campus of about 210 acres near Ambazari lake. The Institute has adequate number of highly qualified and trained faculty of National and International repute and proven capabilities of higher caliber in various disciplines.

About the Department:

The Department of Metallurgical Engineering was founded in 1965. The faculty and the equipment facilities in the department are well developed over the last five decades for UG/PG program in Metallurgical and Materials Engineering. Research programs are catering to the requirement of the industrial testing and consultancy. The faculty has established excellent rapport and effective interaction with all the major industries and R&D organizations as Indira Gandhi Center for Atomic Research (IGCAR), Kalpakkam, National Aerospace Laboratory (NAL), Bangalore, Gas Turbine Research Establishment (GTRE), Bangalore, Naval Materials Research Lab (NMRL), Ambernath and others. The department is also actively engaged in continuing education programs on Welding, Failure analysis, Testing and QC, Casting and solidification processes, Electric steel making, Structure-Property correlation etc. for industries in the region.

- Maximum number of participants allowed: 20.

Registration:

Applicants are requested to submit Demand Draft (DD) / Cheque alongwith the registration form in VNIT. The form should be duly signed by the Head of the Organization/ Competent Authority

The DD/Cheque must be drawn in favor of “**The Indian Institute of Metals- Nagpur Chapter**”, payable at **SBI, VRCE Branch, Nagpur**

Account details for online transfer:

Name: The Indian Institute of Metals- Nagpur Chapter

A/c type & Number: CURRENT, 36994756333

Bank and Branch: State Bank of India, VNIT, Nagpur

IFSC Code: SBIN0006702

Last date for receiving duly filled registration form along with DD/Cheque is **19th February, 2023**. Applicants will be informed about the selection by **20th February 2023** by email.

Course & Workshop Fees Structure:

No. of participants from an organization	Total Fees (Rs.)
1	10,000 + GST (18%)
2	16,000 + GST (18%)
4	20,000 + GST (18%)

Inclusions: Course material, Meal, Tea/Coffee

