

Date: 17/01/2026

Permission Letter

To,

The Principal

Vivekanand College, Kolhapur (Empowered Autonomous)

Subject: Request to grant permission for **Workshop**.

Respected Sir,

Department of Foundry Technology (B.Voc) is going to arrange a workshop on "Casting Design, Simulation and NDT" by Prof. Digvijay A. Mhamane on 22nd January 2026. Please give us permission to arrange a workshop.

This workshop will help students to get hands-on experience of advanced instruments used in design and development of casting and in defect identification of casting.

Expected remuneration is 2000 rupees.

Thanking you.

Yours sincerely



A handwritten signature in blue ink, appearing to read "A. M. Mane".

Mr. A. M. Mane

HEAD

B. VOC, FOUNDRY TECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

19/1/26
Allowed
19-1-2026

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

DEPARTMENT OF FOUNDRY TECHNOLOGY

NOTICE

All the students are hereby informed that our department is going to organize a **Workshop** on “**Casting Design, Simulation and NDT**” by Prof. Digvijay A. **Mhamane**. This workshop will help students to get hands-on experience of advanced instruments used in design and development of casting and in defect identification of casting.

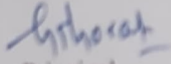
Everyone should be present on time.

Date: **22nd January 2026**

Time: **2.00 pm onwards**

Place: **IDEA Lab, DKTE's College of Engg. Ichalakaranji.**




Principal
Principal
Vivekanand College, Kolhapur
Empowered Autonomous Institute

Reg.No. H.S.C./ 1074/R-1/DT : 8-8-1976
Code No. 23-09-002
U.Dise No. 27341301006

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"
-शिक्षणमहर्षी डॉ. बापूजी साबुंबरे

ESTD, June 1964
AISHE Code : C-11059
DTE Code : 16125



Shri Swami Vivekanand Shikshan Sanstha's VIVEKANAND COLLEGE, KOLHAPUR

(AN EMPOWERED AUTONOMOUS INSTITUTE)
2130, 'E' Tarabai Park, Kolhapur, Tal. Karveer, Dist. Kolhapur -416003
Affiliated to Shri Vajji University, Kolhapur (M.S.)
NAAC Reaccredited : "A+" (CGPA3.29)
College with Potential for Excellence by U.G.C., New Delhi
"Star College" by D.B.T Govt. of India
ISO 9001 : 2015



Ph. : 0231-2658612 Fax : 0231-2658840 Resi. : 0231-2653962 Website : www.vivekanandcollege.ac.in E-mail : info@vivekanandcollege.ac.in

Founder
Dr. Bapuji Salunkhe
D.Lit.

President
Hon. Chandrakant Dada Patil
MLA

Chairman
Prin. Abhaykumar Salunkhe
M.A.

Secretary
Prin. Mrs. Shubhangi Gawade
M.Sc., B.Ed.

Inch. Principal
Dr. S. P. Thorat
M.Sc., M.Phil., Ph.D.

Ref. No. VCK/ 2345/2026

Date : 22/11/2026

To.

Prof. Digvijay A. Mhamane

DKTE's College of Engineering,

Ichalkaranji.

Subject: Invitation for **workshop**.

Respected Sir,

Vivekanand College Kolhapur (Empowered Autonomous) is NAAC Re-accredited with grade 'A+' and is having status of 'College with Potential for Excellence' by UGC. Our college is awarded the grade of 'Star College' by DST-Govt. of India.

We have started three years B. Voc degree course in Foundry Technology. As our course is skill-based education and job oriented. We are going to arrange a workshop on "Casting Design, Simulation and NDT" on 22nd January 2026.

As you are an expert in the field quality of casting, we assure that your guidance will add more practical information about quality of casting in our students. So, we request you to accept our invitation for the same.

Hoping for your positive response.

Thanking you,



Yours faithfully,

hshwat
(Dr. S. P. Thorat)

Principal

Reg.No. H.S.C./ 1074/R-1/DT : 8-8-1976
Code No. 23-09-002
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Ref. No. VCK/ 2345/2026

Date : 22/11/2026

Letter of Appreciation

To.

Prof. Digvijay A. Mhamane

DKTE's College of Engineering,

Ichalkaranji.

We are very much thankful to you for conducting workshop on "Casting Design, Simulation and NDT" by on 22nd January 2026 at Foundry Technology (B. Voc.) department at Vivekanand College, Kolhapur (Empowered Autonomous)

We appreciate your presence and looking forward to our further acquaintance and interaction.



Yours faithfully,

Dr. S. P. Thorat

(Dr. S. P. Thorat)

Principal

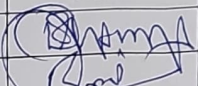
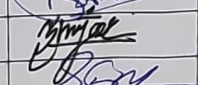
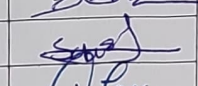
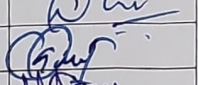
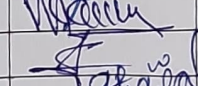
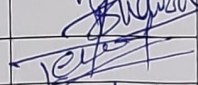
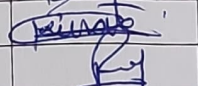
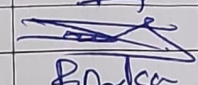
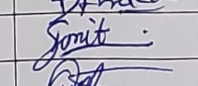
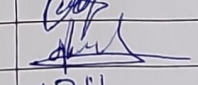
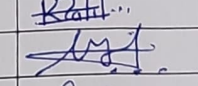
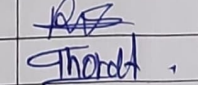
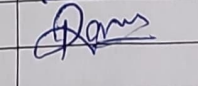
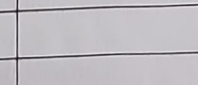
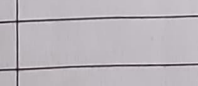
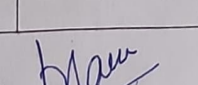
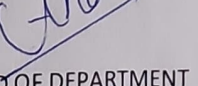
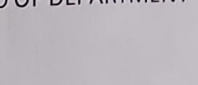
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

B.VOC & COMMUNITY COLLEGE
DEPARTMENT OF FOUNDRY TECHNOLOGY

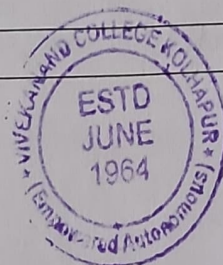
GUEST LECTURE ON: Casting Design, Simulation & NDT

CLASS: B.VOC FT 1, II, III

DATE: 22/01/2022

SR. NO	NAME OF STUDENT	SIGN
1	DHARMENDRA SHARMA	
2	Rupshakar S. Binyadar	
3	Mr. Suraj V. Mujawar	
4	Kumbhar Sanil Kundlik	
5	Sanjay Mahesh Sarant	
6	Anant Bhosale	
7	Nithan Patil	
8	Vasant Vilas Urf Dnyanu Nikam	
9	Sourabh A. Lohar	
10	Arvind A. Bhosale	
11	Devesh Hegde	
12	Pranav K. Divate	
13	Ry Kumar R. Kambik	
14	Soham M. More	
15	Poashant D. Porekar	
16	Sumit Sanjay Kadam	
17	Umesh S. More	
18	Omkar E. Patil	
19	Kedar Lakshman Patil	
20	Samarth Vinod Ingale	
21	Raj Vinod Singh	
22	Vaibhav Vitthal Thorat	
23	Rahul Raju Kore	
24		
25		
26		
27		
28		

STAFF



HEAD OF DEPARTMENT



"Education for Knowledge, Science and Culture"
-Shri. Bapuji Salunkhe

VIVEKANAND COLLEGE, KOLHAPUR
(AN EMPOWERED AUTONOMOUS INSTITUTE)
INTERNAL QUALITY ASSURANCE CELL

2025-26



Criteria V

Activities Report

1. **Name of Department:** B.Voc. Foundry Technology
2. **Name of Organized Activity:** Workshop on "Casting Design, Simulation and NDT" by Prof. Digvijay A. Mhamane
3. **Date:** 22nd January 2026 **Duration:** 1 Day
4. **Aims and Objectives:**

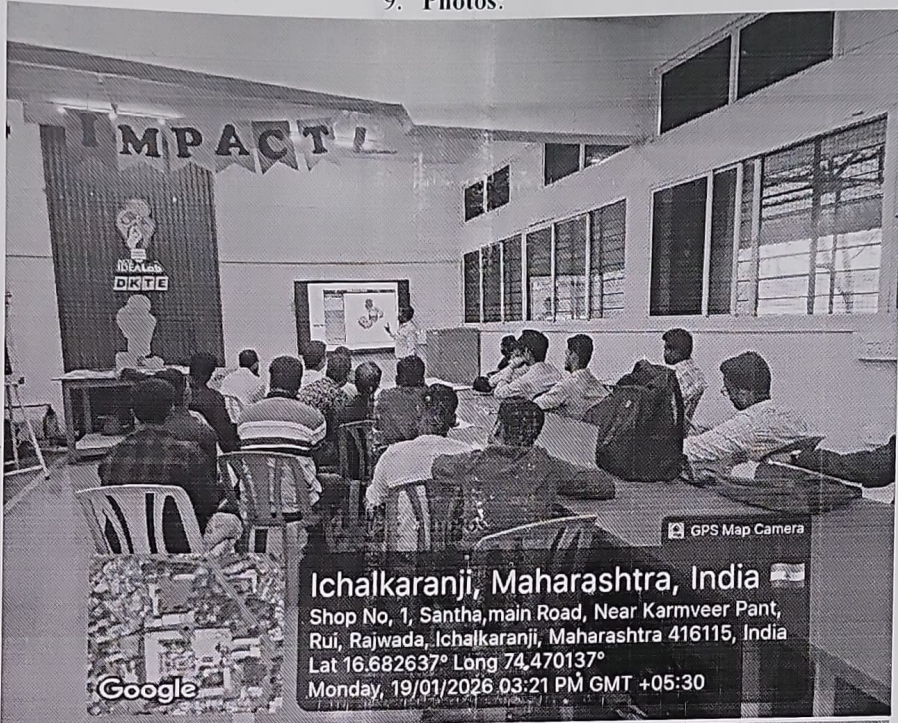
To provide hands-on insight into modern casting design techniques, computer-aided casting simulation to predict and eliminate defects, and Non-Destructive Testing (NDT) methods to verify structural integrity.

- **Design & Gating Optimization:** Understand core principles of casting design, gating, and risering systems for defect-free component production.
- **Casting Simulation:** Utilize simulation software to analyze metal flow, thermal behavior, and solidification patterns to prevent porosity and shrinkage.
- **Quality Verification via NDT:** Learn non-destructive inspection methods (dye penetrant, ultrasonic, magnetic particle, radiographic testing) to assess internal and surface flaws without damaging parts.
- **Yield & Cost Improvement:** Reduce scrap rates, optimize material yield, and accelerate overall foundry production throughput.

5. **No. of beneficiaries (Participants):** 23 Students
6. **Expenditure & funding agency/collaborators:** Nil | Total Expenditure: Nil
7. **Brief description:** This technical workshop explores the complete modern casting lifecycle, bridging initial pattern design with advanced digital simulation and quality assurance. First, casting design principles focus on optimizing mold layouts, gating systems, and metal flow dynamics to ensure sound feeding. Next, casting simulation tools model fluid flow, heat transfer, and solidification phases in real time to identify defect-prone areas prior to actual pouring. Finally, Non-Destructive Testing (NDT) methodologies demonstrate how to inspect cast components for hidden cracks, inclusions, and voids while maintaining structural integrity. Together, these techniques equip students with essential industry practices for high-yield, zero-defect foundry operations.
8. **Outcomes:** Enhanced practical understanding of casting design optimization, computer simulation for defect reduction, and standard NDT procedures for rigorous quality control in foundry engineering.



9. Photos:



10. Signatures of coordinator/ organizer:

Shani
S. A. Karmik

