



दिनकरराव के. शिंदे स्मारक ट्रस्ट संचलित

खाते

# डॉ. ए. डी. शिंदे कॉलेज ऑफ इंजिनियरिंग

द्वौचर नं. :

गुडाई, भडगांव, ता. गडहिंगलज, जि. कोल्हापूर - ४१६ ५०२

दिनांक : २०/०७/२०२४

Mr. Harsh Ghodake

पावती लिहून देणार श्री.

पत्ता : Design Engineer, 3-D printing and Innovation Pvt. Ltd.

तपशील	रक्कम
Two-days FDP on "3-D printing" on 18/07/2024 to 20/07/2024	5,000/-
एकूण	5,000/-
अक्षरी रु. five thousand only	रक्कम घेणाऱ्याची सही <i>Harsh</i>

लेखापाल

कार्यालय अधिकारक

~~प्राचार्य~~  
प्राचार्य



Dinkarao K. Shinde Smarak Trusts

**DR. A. D. SHINDE COLLEGE OF ENGINEERING**

Bhadgaon, Gadchinglaj. Dist: Kolhapur Pin: 416502

**Academic Year 2024-25**

**Department of Mechanical Engineering**



Date: 13/07/2024

To,

Principal

Dr. A. D. Shinde College of Engineering,  
Bhadgaon.

Subject: Permission for Arranging Faculty Development Programme on 3D Printing.

Respected Sir,

I, Mr. Kumbar G. M. am working as the **Head of the Mechanical Engineering Department** in our institute. Our department proposes to arrange a **Faculty Development Programme (FDP)** on **“3D Printing”** for all faculty members of the Mechanical Engineering Department.

This programme will help enhance the faculty members' knowledge and understanding of advanced manufacturing technologies, which will be beneficial for both teaching and research activities.

Therefore, I kindly request you to grant permission to organize this beneficial FDP.

I request you to please consider the same and permit us to conduct the programme.

Yours faithfully

  
Mr. Kumbar G. M.  
**H.O.D.**  
Dept. of Mechanical & Mechatronics Engg.  
Dr. A. D. Shinde College of Engg.  
Mechanical Department  
Bhadgaon, Dist. Gadchinglaj



Dinkarao K. Shinde Smarak Trust's

# **DR. A. D. SHINDE**

## **COLLEGE OF ENGINEERING**

Approved by AICTE, Delhi, DTE Mumbai and Govt of Maharashtra. Affiliated to Shivaji University, Kolhapur.

Campus Director/Principal  
**Dr. D. V. Ghewade**

Secretary  
**Mrs. Swati Mahesh Kori**

President  
**Urmiladevi S. Shinde**



Ref. DAOSCOE/6872/24-25/242

Date: 10/07/2024

To,

Mr. Harsh Ghodake

Design Engineer,

3D Printing and Innovation Pvt. Ltd.

Subject: Invitation as a resource person for workshop on “3 D Printing”

Respected sir,

On the behalf of our institute Dr. A. D. Shinde College of Engineering, Bhadgaon. Mechanical Engineering Department, we are very pleased to inviting you as a resource person to deliver a FDP on “3 D Printing” at our college campus. We are planning to arrange the workshop from 18/07/2024 to 20/07/2024 for our department's all faculties' members.

Your expertise and knowledge would definitely help our students. We hope you can make time in your busy schedule and guide our faculties.

Best regards

  
**PRINCIPAL**

A.D.Shinde College of Engineering  
Bhadgaon, Tal. Gadhinglaj, Dist. Kolhapur





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**Academic Year 2024-25**

**Department of Mechanical Engineering**



Date – 13/07/2024

## **NOTICE**

All faculty members of the Mechanical Engineering Department, Dr. A. D. Shinde College of Engineering, are hereby informed that the department has organized a Faculty Development Programme (FDP) on “**3D Printing**” from **18/07/2024 to 20/07/2024**.

This programme will help enhance your knowledge of 3D printing. All faculty members are kindly requested to attend the FDP in the **CAD Lab**.

**H.O.D.**

**H.O.D.**

Dept. of Mechanical & Mechatronics Engg.  
Department of Mechanical Engineering  
Dr. A. D. Shinde College of Engineering  
Bhadgaon, Tal. Gadchinglaj





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Department of Mechanical Engineering



## FDP on 3D Printing

### Schedule

Date	Time	Description
18/07/2024	10.30 AM – 11.00 AM	Inauguration
	11.00 AM – 12.30 PM	Importance of solid works, 3D Printing
	12.30 PM – 01.30 PM	<i>Lunch Break</i>
	01.30 PM – 03.30 PM	Theory Part – Solid Works soft. 3D Printing
19/07/2024	10.00 AM – 12.00 PM	Practice of basic tools on solid works
	12.00 PM – 01.00 PM	<i>Lunch Break</i>
	01.00 PM – 03.00 PM	3D Modeling on solid works
20/07/2024	10.00 AM – 12.00 PM	3D Model on 3D Printing
	12.00 PM – 01.00 PM	<i>Lunch Brake</i>
	01.00 PM – 03.00 PM	3D Model on 3D Printing

  
HOD  
Dept. of Mechanical Engg.  
Dr. A. D. Shinde College of Engg.  
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## A FDP Report On 3D Printing

Organized by:

Department of Mechanical Engineering

Dr. A. D. Shinde College of Engineering, Bhadgaon

Date: July 18, 2024 to July 20, 2024.

### **1. Introduction**

A FDP on 3D Printing was successfully organized by the Mechanical Engineering Department during July 18, 2024 to July 20, 2024. The objective of the FDP was to provide hands-on experience and technical knowledge about the 3D Printer.

### **2. Objectives of the FDP**

1. To understand the basic concepts of 3D printing.
2. To learn different 3D printing methods and materials.
3. To gain basic hands-on knowledge of 3D printing machines.
4. To apply 3D printing technology in teaching and academic projects.

### **3. Event Schedule**

#### **Day 1 (18/07/2024)**

The programme commenced with the inauguration, followed by a session highlighting the importance and applications of 3D printing in modern engineering. The day concluded with a detailed theory session on 3D printing, covering basic concepts, processes, and technologies.

#### **Day 2 (19/07/2024)**

Day 2 focused on hands-on practice with basic 3D printer tools and familiarization with printing materials. Participants gained practical knowledge of machine operation, material handling, and basic printing procedures.

#### **Day 3 (20/07/2024)**

Day 3 was dedicated to creating and understanding 3D models for 3D printing. Participants learned basic 3D modeling techniques and prepared models for printing using appropriate software.

### **3. Outcome of the FDP**

Faculty members will gain fundamental knowledge of 3D printing technologies and materials. They will be able to explain basic concepts and applications of 3D printing.



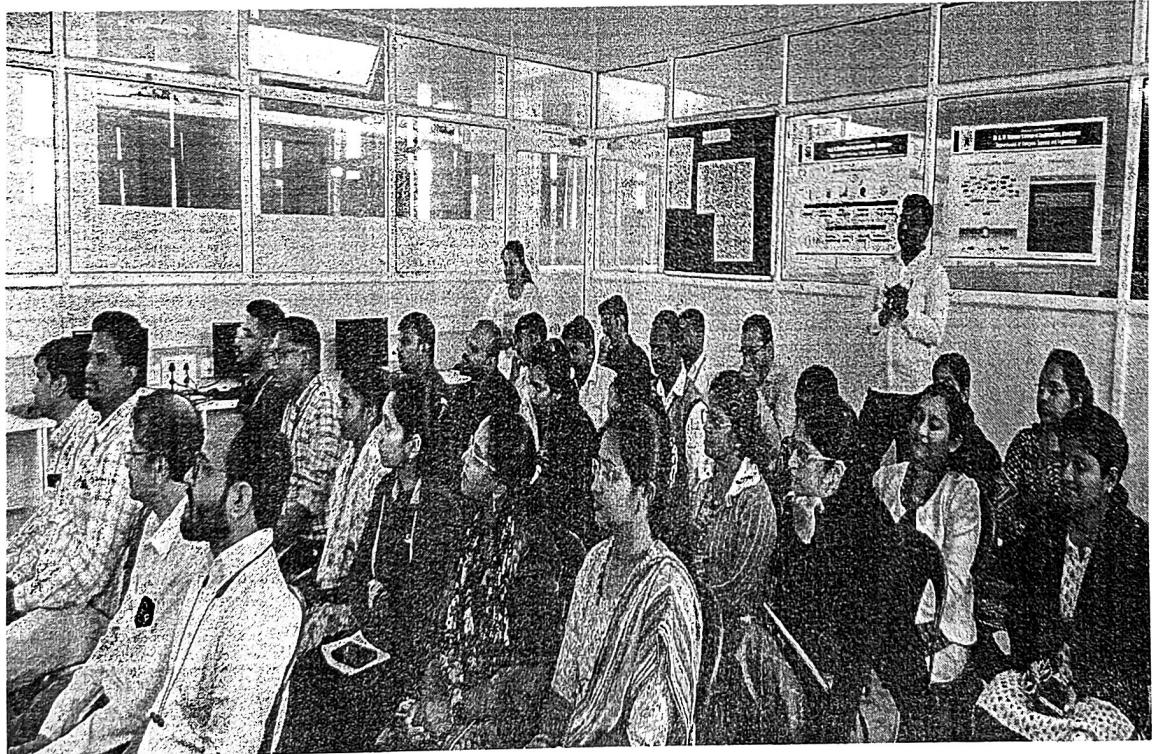


#### 4. Conclusion

The Faculty Development Programme on *3D Printing* was successfully conducted and proved to be highly informative and beneficial for the participants. It enhanced the faculty members' understanding of modern manufacturing technologies and provided practical exposure, enabling them to effectively incorporate 3D printing concepts into teaching, laboratory work, and student projects.

#### 6. Acknowledgment

We sincerely thank our Principal, Dr. D. V. Ghewade, for his continuous support and encouragement. We also thank the Department of Mechanical Engineering and the organizing faculty members for their tireless efforts in making this FDP a grand success.





Dinkarrao K. Shinde Smarak Trusts

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**Academic Year 2024-25**

**Department of Mechanical Engineering**





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**Academic Year 2024-25**

**Department of Mechanical Engineering**



### **FDP on 3D Printing**

#### **Attendance Record**

Sr. No.	Name of Faculty	Signature					
		18/07/2024		19/07/2024		20/07/2024	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
1.	Mr. K. S. Joshi						
2.	Mr. G. M. Kumbar						
3.	Mr. S. P. Bagadi						
4.	Mr. I. T. Patel						
5.	Mr. A. S. Bhoi						
6.	Mr. S. A. Mehta						
7.	Mrs. P. T. Kokitkar						



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Dr. D. V. Ghewade

Secretary  
Mrs. Swati Mahesh Kori

President  
Urmiladvi S. Shinde



Ref. DADSCOE/6878/24-25/249

Date: 20/7/2024

To,

Mr. Harsh Ghodake

Design Engineer,

3D Printing and Innovation Pvt. Ltd

Subject: Regarding thanking for conducting FDP on “3 D Printing”

Respected sir,

On the behalf of our institute Dr. A. D. Shinde College of Engineering, Bhadgaon, Mechanical Department, we are very thankful to you for conducting such a needful FDP on “3 D Printing” and sharing your knowledge with us.

So, we heartily thank to you and hope you will join with us in future also.

Best regards

~~✓ 100%~~  
PRINCIPAL

A.D.Shinde College of Engineering  
Bhadgaon, Tal. Gadchinglaj, Dist. Kolhapur



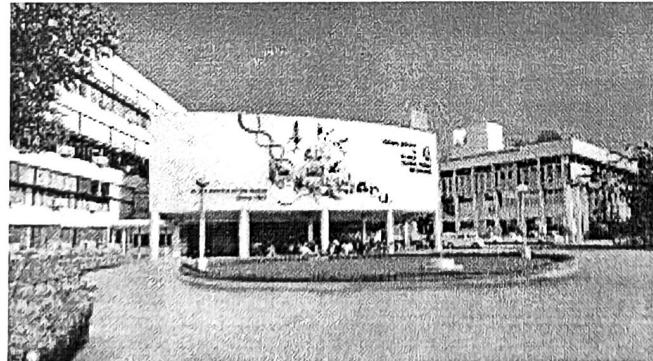


# **Faculty Development Programme on Enhancing Research Capabilities for Academic Career Progression**

**Dates of FDP: 17<sup>th</sup> – 21<sup>st</sup> March, 2025**

**Mode: ICT / Online**

**GOOGLE MEET LINK: [meet.google.com/tvj-yzig-ocd](https://meet.google.com/tvj-yzig-ocd)**



**To Be Organized By**

**Entrepreneurship Development and Industrial Coordination Department**

**National Institute of Technical Teachers Training and Research,  
Chandigarh – 160019**





## ABOUT NITTTR CHANDIGARH

National Institute of Technical Teachers Training and Research, Chandigarh, formerly known as Technical Teachers Training Institute (TTTI), was established by Ministry of Human Resource Development (MHRD), Government of India in 1967 to meet the requirements of training Polytechnic teachers for the growth and development of polytechnic education in the northern region of the country. It had the collaboration of Royal Netherlands Government up to 1974. The institute ushered into a new era in November 2003, with its changed name and enhanced status as National Institute of Technical Teachers Training and Research (NITTTR). It is one of the four such National Institutes in the Country with a focus on the Northern Region comprising the states of Haryana, Himachal Pradesh, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, National Capital Territory of Delhi, and Union Territory of Chandigarh, Jammu & Kashmir, and Ladakh. Presently, the outreach of the programmes and activities of the institute covers the entire gamut of technical education. Ministry of Education, Government of India has recently accorded the '*Deemed to be University*' status to NITTTR Chandigarh under distinct category.

## ABOUT ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION DEPARTMENT

Entrepreneurship Development and Industrial Coordination (EDIC) department was established at NITTTR, Chandigarh in the year 1983 with a view to introduce and promote entrepreneurship development and improve Industry-Institute Interaction (III) in the technical education system. Presently, the department provides services to the Engineering Colleges, Polytechnics and Management Institutes of the Country. The department is engaged in training of entrepreneurs, potential entrepreneurs, entrepreneur-trainer-motivators (ETMs), technical teachers, managers, administrators & professionals from industries. With a holistic approach to the promotion of entrepreneurship and industry-institute interaction, the department is also conducting research & development studies; preparing instructional material (both print and non-print); offering assistance in curriculum design and review; providing extension services to client institutes and undertaking consultancy work in the broad areas of Entrepreneurship and allied aspects.

## RATIONALE FOR THE PROGRAMME

Global economic progress brings higher educational institutions (HEI) to be more competitive in producing research results. These results may become new knowledge in the knowledge of economy. Faculty members being the cornerstone of any higher educational institutions have to step up for the challenges being presented by this new and changing paradigm in the academia by enhancing their research capabilities. This calls for faculty members to undergo training programmes which will be able to bring enhancement in their respective research domain alongside with the impact on the associated aspects like teaching and administration. The main objective of this programme is to expose participants to the nuances of academic research by introducing them to the core concepts of the domain along with the ways corporates take into the cognizance of the research outputs for the practical purposes. Further, this programme will bring forth in front of participants the way of writing and submitting a research project along with the number of statistical data analysis techniques. This programme will also show the participants the process of conducting a systematic literature review and bibliographic analysis for their respective research areas as well.

**Indicative topics to be covered during FDP:** Defining Academic Research and Research Process, Research Instrument's Validity and Data Analysis, Bibliographic Analysis, Multivariate Data Analysis and Selecting Appropriate Data Analysis Method, Multiple Regression Using Excel, Research Avenues for Career Progression in-line with New Education Policy, Research Project Submission: Intricacies and Pathway, Research for Market Opportunities

## PROGRAMME COORDINATOR

Dr Harsh Vardhan Samalia  
{Ph.D, MBA, BE, PGDPL}  
Associate Professor, EDIC DEPARTMENT  
NITTTR CHANDIGARH  
harsh@nitttrchd.ac.in  
Ph: 0172 – 2759673  
M: 8794946575



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH**  
**ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT, NITTTR, CHANDIGARH**

Indicative Time Schedule for One Week Programme on  
**'Enhancing Research Capabilities for Academic Career Progression' (17 – 21 March, 2025)**  
**O. Plan No.: ICT – 117 Mode: Online**

Day & Date	Morning Session		L U N C H B R E A K	Afternoon Session
	Session I (10:00 AM – 11:30 Noon)	Session II (11:45 AM – 01:15 PM)		Session III (2:30 PM – 04:00 PM)
Monday 17/03/2025	Introduction and Overview of the Programme (HVS)	Defining Academic Research and Research Process (HVS)		Copyrights and Referencing in Research (ADS)
Tuesday 18/03/2025	Research Instrument's Validity and Data Analysis (SD)	Research Project Submission: Intricacies and Pathway (NB)		Multivariate Data Analysis and Selecting Appropriate Data Analysis Method (YVRM)
Wednesday 19/03/2025	Various Sampling Techniques and Design of Research Instrument (HGS)	Tools for Bibliographic Analysis (RS)		Multiple Regression Using Excel (AM)
Thursday 20/03/2025	Research in Industry: A Practitioner's Perspective (HS)	Structural Equation Modelling through 'R' (KB)		Research Avenues for Career Progression inline with New Education Policy (MS)
Friday 21/03/2025	Research for Market Opportunities: An Entrepreneurial Perspective (AK)	Identity Matching of Social Network Users: A Textual Content Based Approach (DKS)		Reflection and Valediction (HVS / Participants)

**Resource Persons:**

**HVS** = Dr. Harsh Vardhan Samalia, Course Coordinator, Associate Professor and Head of EDIC Dept. NITTTR Chandigarh  
**ADS** = Er. Amardev Singh, Assistant Professor, EDIC Dept. NITTTR Chandigarh  
**SD** = Dr. Sunil Dutt, Former Prof and Head, Education and Education Management Department, NITTTR Chandigarh  
**NB** = Dr. Niraj Bala, Professor, EDIC Dept. NITTTR, Chandigarh  
**YVRM** = Dr. Y Venkata Ramana Murthy, Associate Professor, Centre for Management Studies, MNLU, Aurangabad  
**HGS** = Dr. Hergovind Singh, Assistant Professor, Department of Management Studies, MANIT, Bhopal  
**RS** = Dr. Rupinder Singh, Professor, Mechanical Engineering Department and Dean (Research & Innovation), NITTTR Chandigarh  
**AM** = Dr. Ankit Mahindroo, Assistant Professor, Thapar University, Patiala  
**HS** = Mr. Harshvardhan Sharma, Head - Automotive Retail Practice (India), Automotive Industry Consulting Group, Nomura Research Institute, Japan  
**KB** = Dr Kuldeep Baishya, Assistant Professor, IIT Guwahati  
**MS** = Dr. Meenakshi Sood, Associate Professor, Curriculum Development Department, NITTTR Chandigarh  
**AK** = Mr. Aditya Kansal, Director, Matins Pharma, Panchkula, Haryana  
**DKS** = Dr. Deepesh Kumar Srivastava, Assistant Professor, Information Management & Data Science, IMT Dubai





# राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान

## National Institute of Technical Teachers Training & Research

शिक्षा मंत्रालय, भारत सरकार / Ministry of Education, Government of India  
सेक्टर - 26, चंडीगढ़ - 160 019 / Sector - 26, Chandigarh - 160 019

Ref.: NITTTR/EDIC/ 820

Dated: 23-04-2025

### CERTIFICATE OF APPRECIATION

This is to certify that Ms. Hemlata R patil, Assistant Professor, Dr. A. D. Shinde College of Engineering, Bhadgaon, Maharashtra, offered his / her services as Supporting/ Ancillary Staff of remote centre at Dr. A.D. Shinde College of Engineering, Bhadgaon, Maharashtra, during the ICT Based One Week Faculty Development Programme on 'Enhancing Research Capabilities for Academic Career Progression' (ICT – 117) conducted by EDIC Department of NITTTR, Chandigarh from 17 – 21 March, 2025 in ICT mode.

Dr. Harsh Vardhan Samalia  
Associate Professor & Head  
Entrepreneurship Development and Industrial Coordination Department





राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान  
National Institute of Technical Teachers Training & Research

शिक्षा मंत्रालय, भारत सरकार / Ministry of Education, Government of India  
सेक्टर - 26, चंडीगढ़ - 160 019 / Sector - 26, Chandigarh - 160 019

Ref.: NITTTR/EDIC/ 819

Dated: 23 - 04 - 2025

### CERTIFICATE OF APPRECIATION

This is to certify that Prof. (Dr.) Kishor S. Joshi, Vice Principal, Dr. A. D. Shinde College of Engineering, Bhadgaon, Maharashtra, offered his / her services as Local Coordinator of remote centre at Dr. A.D. Shinde College of Engineering, Bhadgaon, Maharashtra, during the ICT Based One Week Faculty Development Programme on 'Enhancing Research Capabilities for Academic Career Progression' (ICT - 117) conducted by EDIC Department of NITTTR, Chandigarh from 17 - 21 March, 2025 in ICT mode.

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To,

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Design Engineer,

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Best regards

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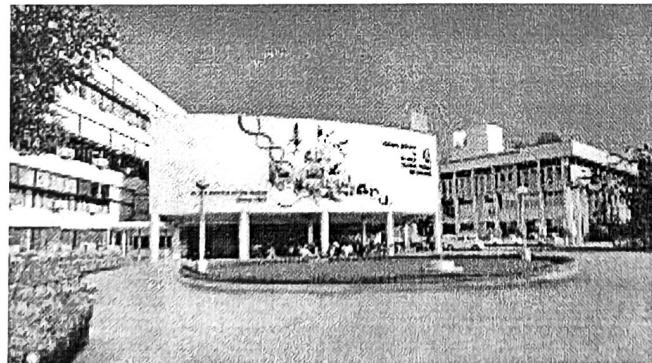


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## PROGRAMME COORDINATOR

Dr Harsh Vardhan Samalia  
{Ph.D, MBA, BE, PGDPL}  
Associate Professor, EDIC DEPARTMENT  
NITTTR CHANDIGARH  
harsh@nitttrchd.ac.in  
Ph: 0172 – 2759673  
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**ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT, NITTTR, CHANDIGARH**

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**AK** = Mr. Aditya Kansal, Director, Matins Pharma, Panchkula, Haryana  
**DKS** = Dr. Deepesh Kumar Srivastava, Assistant Professor, Information Management & Data Science, IMT Dubai





# राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान

## National Institute of Technical Teachers Training & Research

शिक्षा मंत्रालय, भारत सरकार / Ministry of Education, Government of India  
सेक्टर - 26, चंडीगढ़ - 160 019 / Sector - 26, Chandigarh - 160 019

Ref.: NITTTR/EDIC/ 820

Dated: 23-04-2025

### CERTIFICATE OF APPRECIATION

This is to certify that Ms. Hemlata R patil, Assistant Professor, Dr. A. D. Shinde College of Engineering, Bhadgaon, Maharashtra, offered his / her services as Supporting/ Ancillary Staff of remote centre at Dr. A.D. Shinde College of Engineering, Bhadgaon, Maharashtra, during the ICT Based One Week Faculty Development Programme on 'Enhancing Research Capabilities for Academic Career Progression' (ICT – 117) conducted by EDIC Department of NITTTR, Chandigarh from 17 – 21 March, 2025 in ICT mode.

Dr. Harsh Vardhan Samalia  
Associate Professor & Head  
Entrepreneurship Development and Industrial Coordination Department





# राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान

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Ref.: NITTTR/EDIC/ 819

Dated: 23 - 04 - 2025

### CERTIFICATE OF APPRECIATION

This is to certify that **Prof. (Dr.) Kishor S. Joshi, Vice Principal, Dr. A. D. Shinde College of Engineering, Bhadgaon, Maharashtra**, offered his / her services as Local Coordinator of remote centre at Dr. A.D. Shinde College of Engineering, Bhadgaon, Maharashtra, during the ICT Based One Week Faculty Development Programme on 'Enhancing Research Capabilities for Academic Career Progression' (ICT - 117) conducted by EDIC Department of NITTTR, Chandigarh from 17 – 21 March, 2025 in ICT mode.

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