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Vidarbha Bahu-uddeshiya Shikshan Sanstha's

TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)

An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

• NAAC ACCREDITED WITH 'A+' GRADE • An ISO 9001:2015 Certified Institution

• Email: principal@tgpcet.com, registrar@tgpcet.com

• Web: www.tgpcet.com

• NH7, Wardha Road, Mohgaon, Nagpur - 441108

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7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. USE OF ICT TOOLS FOR TEACHING-LEARNING

2. FACULTY DEVELOPMENT PROGRAMS (FDP)

Best Practices 2022-23

Best Practice-1

1. Title of the Practice: USE OF ICT TOOLS FOR TEACHING-LEARNING.

2. Objectives of the Practice:

Effective and efficient content delivery online/offline Use of Digital content like study material, virtual labs and NPTEL video lectures Use of different online teaching-learning platforms like Google meet, google classroom etc online Continuous Internal Evaluation.

3. The Context:

The use of Information and Communication Technology (ICT) tools for teaching-learning revolutionizes educational paradigms by fostering interactive and engaging environments. ICT integration encompasses multimedia presentations, virtual simulations, online assessments, and collaborative platforms, catering to diverse learning styles and enhancing student participation. It promotes self-directed learning, facilitates access to vast educational resources, and transcends geographical barriers, enabling global connectivity and knowledge exchange. ICT tools optimize teaching efficacy through personalized learning experiences, real-time feedback mechanisms, and data-driven insights into student progress. Embracing ICT empowers educators to create dynamic, inclusive learning ecosystems that cultivate critical thinking, creativity, and digital literacy essential for the 21st-century.

4. The Practice:

All teachers adopted online teaching during lockdown situations. During offline teaching faculty used ICT enabled facilities in the class rooms for effective curriculum delivery.

5. Evidence of Success:

The online teaching and evaluation activities were successfully conducted. The performance of students in CIE and End semester examinations is very good. Few co-curricular and extra-curricular activities were also conducted under this online practice.

6. Problems Encountered and Resources Required:

As such there are no Constraints and limitations related to implementation of ICT tools for Teaching and Learning institute has all facilities.



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Evidences

ICT Enable Classrooms



Figure 1 Class Room



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Figure 2 Seminar Hall





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Sr. No	Particular	Link
1	Learning through NPTEL Videos	https://tgpcet.com/assets/img/Mech-Photos/Innovations_Teaching_Learning/NPTEL-VIDEO-LECTURES.pdf
2	Learning through faculty made Videos	https://tgpcet.com/assets/img/Mech-Photos/Innovations_Teaching_Learning/Innovation_Video_Lectures.pdf
3	Virtual Lab	https://tgpcet.com/assets/img/Mech-Photos/Innovations_Teaching_Learning/Virtual_Lab.pdf
4	Activity and Project based Learning	https://tgpcet.com/assets/img/Mech-Photos/Innovations_Teaching_Learning/Instructional_and_Experiential_Learning.pdf
5	Learning through Subject Notes	https://tgpcet.com/assets/img/Mech-Photos/Innovations_Teaching_Learning/subject_notes.pdf



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Best Practice-2

1. Title of the Practice: FACULTY DEVELOPMENT PROGRAMS (FDP).

2. Objectives of the Practice:

The objectives of faculty development programs in colleges are to enhance teaching effectiveness, update subject knowledge, promote innovative pedagogies, foster research and scholarship, improve assessment practices, support diversity and inclusion, enhance communication skills, facilitate professional networking, and promote career advancement. These programs aim to empower faculty members to create engaging learning environments, contribute to academic scholarship, and cultivate inclusive communities. Through ongoing professional development, faculty members gain the skills, knowledge, and support necessary to excel in their roles as educators, researchers, and mentors, ultimately enhancing the quality of education and student learning experiences in the college setting.

3. The Context:

The context of faculty development programs in colleges lies in providing ongoing support and resources to faculty members. These programs aim to enhance teaching effectiveness, promote scholarly activity, foster professional growth, and create inclusive learning environments, ultimately improving the quality of education and student outcomes in the institution.

4. The Practice:

- Deputation of faculty for online/offline FDP conducted by other institutes and AICTE
- NTPEL certification courses of respective domain.

5. Evidence of Success:

Improved student learning outcomes, increased engagement in scholarly activities, enhanced teaching effectiveness, positive feedback from students, peers, and administrators and the establishment of a vibrant academic community committed to continuous improvement and excellence in teaching and learning.

6. Problems Encountered and Resources Required:

As such there are no Constraints and limitations related to FDP.

Evidences



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List of Faculty faculty Development Program Organized By College

Sr.No	development program organized for teaching staff	Dates (from-to) (DD-MM-YYYY)	Link
1	Faculty Development Program on Composite Material	08/05/2023 to 12/05/2023	https://www.tgpcet.com/assets/AQAR-22-23/Criteria-6/6.3.3.pdf
2	Faculty Development Program on Recend Trends in solar photovoltaic technology with IOT based monitoring system and its application	10/04/2023 to 15/04/2023	
3	Blockchain Technology and Cryptography	16/05/2023 to 20/05/2023	
4	The art and science of reasearch paper writing	06/05/2023 to 11/05/2023	
5	3D Printing Technology and its application in industry 4.0	16/05/2023 to 23/05/2023	
6	Implementation of NEP -2020 for Shaping Higher Education System	28/07/2023 to 29/07/2023	



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List of Faculty Development Program Attended By Faculty members

Sr.No	Name of teacher who attended	Title of the program
1	Dr. Bharati B. Sayankar	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
2	Dr. Sanjay Asutkar	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
3	Dr. Pravin Tajne	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
4	Mrs. Rohini Pochhi	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
5		Two Days Hybrid Mode Workshop on NEP 2020 Transforming Vision into Quality Engagement at Higher Education Institutions
6		Training on Outcome Based Education and NBA Prospective
7	Mr. Rahul Dhature	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
		Three Days Workshop on Outcome Based Education and Implementation of OBELT



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9	Mr. Sandeep Thakare	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
10	Mr. Kushal Masarkar	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
11	Mr. Amol Dhenge	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
12	Miss Mayuri Harde	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
13	Miss. Pallavi Rokde	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
14	Mr. Suraj Mahajan	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
15	Miss. Shrutika Wankhede	One week FDP on "Recent trends in Solar Photovoltaic Technology with IoT based Monitoring System and its Applications"
16	Prof. Roshan Chandekar	One week FDP on Blockchain Technologies and its Use Cases
17	Prof. T. P. Raju	One week FDP on Blockchain Technologies and its Use Cases



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18	Prof.Shambhavi Holay	One week FDP on Blockchain Technologies and its Use Cases
19	Prof.Shambhavi Holay	Role of IQAC in Quality Enhancement & Sustainability
20	Prof.Nikhilesh Pranjale	Role of IQAC in Quality Enhancement & Sustainability
21	Mr. Radharaman Shaha	Training of Trainers
		Introduction to Industry 4.0 & Industrial Internet of Things
		Ethics in Engineering Practice
		Awareness Workshop on Outcome based Education and Accreditation
22	Mr. Pratik Ghutke	Teaching & Learning in General Programs: TALG
		Smart Grid: Basics to Advanced Technologies



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23	Dr. Prashant Thakre	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
24	Dr. Suresh Salankar	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
29	Dr. Sonali Paunikar	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
30	Mr. Radhraman Shaha	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
31	Mr. Ganesh Wakte	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
32	Ms. Vaishali Malekar	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
33	Ms. Nikita Malwar	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
34	Mr. Pratik Ghutke	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
35	Mr. Chetan Jambhulkar	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"



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36	Mr. Praful Ghadge	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
37	Ms. Sneha Tibude	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
38	Ms. Ashwini Admane	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
39	Ms. Pradnya Parate	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
40	Mr. Kishor Dhore	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
41	Mr. Vipin Muley	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
42	Ms. Shilpi Gupta	ONE WEEK ONLINE FDP ON "RECENT TRENDS IN SOLAR PHOTOVOLTAIC TECHNOLOGY WITH IOT BASED MONITORING SYSTEM AND ITS APPLICATION"
44	Dr. Atul B. Tekade	One week Faculty Development Programme on " The Art and Science of Research Paper Writing"
45	Dr. Prashant Kshirsagar	One week Faculty Development Programme on " The Art and Science of Research Paper Writing"



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46	Prof. Ankita Bawane	One week Faculty Development Programme on " The Art and Science of Research Paper Writing"
47	Prof. Amit Rahangdale	One week Faculty Development Programme on " The Art and Science of Research Paper Writing"
48	Prof. Utkarsh Kamble	One week Faculty Development Programme on " The Art and Science of Research Paper Writing"
49	Mr. Abhay Rewatkar	Blockchain Technology and Cryptocurrency
50	Prof. Abhimanyu Dutonde	FDP on Blockchain Technology & Cryptocurrency
51	Prof. Abhimanyu Dutonde	Workshop on Role of IQAC in Quality Enhancement & Sustainability
52	Prof. Jayant Adhikari	FDP on Blockchain Technology & Cryptocurrency
53	Prof. Sakshi Jaiswal	FDP on Blockchain Technology & Cryptocurrency
54	Prof. Suraj Mahajan	FDP on Blockchain Technology & Cryptocurrency



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55	Prof. Abhay Bagade	FDP on Blockchain Technology & Cryptocurrency
56	Prof. Aditya Lavhale	FDP on Blockchain Technology & Cryptocurrency
57	Anup Bagade	NEP-2020 Workshop
58	Mohitsingh Katoch	FDP on Electronic Waste Management- Issues and challenges
59	Mohitsingh Katoch	FDP on Municipal Solid waste Management
60	Dr. Aasif Baig	Workshop on Outcome based education and implementation of OBLT
61	Prof. Divyani Harpal	FDP on sustainable building materials and practices
62	Dr. Mamta Takarkhede	NPTEL Course Certificate on TALE
63		NPTEL Course FDP TALE



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64		Certificate on Completing Training in Outcome Based Education & NBA Perspective
65	Prof. Rahul Ingle	Certificate in National Conference on Recent Trends in Physical & Mathematical Science
66		Certificate in National Conference on Recent Trends in Physical & Mathematical Science
67	Prof. Priyanka Jagtap	Two Day Interdisciplinary International Conference on "Re-imagining Sciences in the Wake of NEP 2020: Research, Dissemination and Skill Development (IICRSN)(K.D.K College)
68		MAHARASHTRA STATE ELIGIBILITY TEST FOR ASSISTANT PROFESSOR (Conducted by Savitribai Phule Pune University as a State Agency)
69		NPTEL Course Certificate on TALE
70	Prof. Nadir Husain	NPTEL Course FDP TALE
71		1 St International Conference on Trends in Material Science & Manufacturing Engineering Presentation on Topic- Impact of Temperature On Acid Value of Binary Blends of Vegetable Oil.
72	Dr. Kailash Taklkit	1 St International Conference on Trends in Material Science & Manufacturing Engineering Presentation on Topic Experimental Investigation on Combustion properties of Biodiesels & Their Blends with methanol & Diethyl ether.



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73		NPTEL Course Certificate on TALE
74		NPTEL Course FDP TALE
75	Prof. Pranjali Lute	Attend 2nd National Conferences on 'Recent Trend in Pure Mathematics & Applied Mathematics.
76		Attend 2nd National Conferences on 'Recent Trend in Physical & Mathematical Science.
77		One Week Online Faculty Development Program on "LaTex and MATLAB (L&M2023)" organized by Department of Mathematics, G H Rasoni College of Engineering,
78	Prof. Pooja Sharma	One Week Online Faculty Development Program on "LaTex and MATLAB (L&M-2023)"
79		NPTEL Course Certificate on TALE
80	Prof. Heena Buradkar	NPTEL Course FDP Certificate on TALE
81		NPTEL Course Certificate on Advance Engineering Mathematics



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82		One Week Online Faculty Development Program 22nd – 27th August 2022(K.D.K College)
83		One Week Online Faculty Development Program on “LaTex and MATLAB (L&M2023)” organized by Department of Mathematics, G H Raisoni College of Engineering,
84		Two Day Interdisciplinary International Conference on “Re-imagining Sciences in the Wake of NEP 2020: Research, Dissemination and Skill Development (IICRSN)
85		Two Days Workshop On NBA Preparations
86	Prof. Priyal Wankhede	Development Workshop on Digital Creativity Skills as a part of Adobe Academic Essentials Programme
87		One Week Online Faculty Development Program on “LaTex and MATLAB (L&M-2023)” organized by Department of Mathematics, G H Raisoni College of Engineering,
88	Prof. Rahul Khobragade	NPTEL Course Certificate on TALE
89	Prof. Rahul Ghotkar	NPTEL Course Certificate on TALE
90	Prof. Poonam Dehenkar	One week Online FDP on “Blockchain Technology and Its Use Cases” organized by Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune



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91		Two Day Interdisciplinary International Conference on "Re-imagining Sciences in the Wake of NEP 2020: Research, Dissemination and Skill Development (IICRSN)
92	Prof. Prajakta Junghare	FDP on Blokchain Technology & Cryptocurrency
93	Dr.Shubhangi Gondane	NBA Accreditation and Teaching and Learning in Engineering
94	Dr.Shubhangi Gondane	Principles of Engineering Management
95	Ms. Dipali Bhoyar	Effective Writting
96	Ms. Dipali Bhoyar	Introduction to research
97	Dr.Vijay Talodhikar	One Week Online FDP " Green Energy Technology and wast management"
98	Dr.Vijay Talodhikar	One Week Online FDP "Recent Trends In Advanced Manufacturing Technology"
99	Dr. Shubhangi Gondane	Recent Trends in Mechanical Engineering



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100	Dr Shubhangi Gondane	Green Energy Technology and Waste Management
101	Mr. Gaurav Nagdeve	One Week Online FDP "Recent Trends In Advanced Manufacturing Technology"
102	Mr. Vishwjeet Ambade	One Week Online FDP "Recent Trends In Advanced Manufacturing Technology"
103	Ms. Dipali Bhojar	3D Printing Technology and Its Application in Industry 4.0
104	Ms. Dipali Bhojar	One Week Online FDP " Green Energy Technology and waste management"
105	Ms. Dipali Bhojar	One Week Online FDP "Recent Trends In Advanced Manufacturing Technology"
106	Ms. Dipali Bhojar	"Biofuel Prospects & Challenges"
107	Ms. Dipali Bhojar	Two days online FDP on "Innovative Approaches To Develop Entrepreneurship Skills And Research Paper Writing Skills
108	Ms. Dipali Bhojar	Six Days FDPon IPR



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110	Mr.Ritesh Banpurkar	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
111	Dr.Prashant kadu	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
112	Mr.Praful Randive	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
113	Mr.Yogesh Ramtake	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
114	Mr. Vidyadhar Kshirdsagar	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
115	Dr.Sanjay Nikhade	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
116	Mr.Sunil Telang	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
117	Mr.Yugal Bhaisare	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0



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119	Mr.Yugal Bhaisare	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
120	Dr.Shubhangi Gondane	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
121	Dr.Yogesh Mahulkar	One week faculty development program on 3D Printing Technology and Its Application in Industry 4.0
122	Dr.Sanjay Nikhade	One-Week FDP On- Refresher program on "Additive Manufacturing and Its Industrial Application.
123	Dr Yogesh Mahulkar	One Week Online FDP " Green Energy Technology and wast management"



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6.3.4 Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year.



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Principles of Human Resource Management

with a consolidated score of **56** %

Online Assignments	22.5/25	Proctored Exam	33/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: **2135**

Aug-Oct 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG103543871859

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No. of credits recommended: 2 or 3

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Customer Relationship Management

with a consolidated score of **64** %

Online Assignments	21.67/25	Proctored Exam	42.19/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1558**

Aug-Oct 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG93563871970

To validate the certificate



No. of credits recommended: 2 or 3



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This certificate is awarded to
PRAMAR P BAKANE
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Effective Writing

with a consolidated score of **62** %

Online Assignments	23.33/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **3804**

Prof. Sanjeev Manhas
 Coordinator, Continuing Education Centre
 IIT Roorkee

Jan-Feb 2023
 (4 week course)

Prof. Priti Maheshwari
 NPTEL Coordinator
 IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23HS19S15241574

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No. of credits recommended: 1 or 2



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Introduction to Research

with a consolidated score of **78** %

Online Assignments	23.96/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1826**

Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Feb-Apr 2023
 (8 week course)

Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE05S34271813

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No. of credits recommended: 2 or 3



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This is to certify that **Mr. Roshan Anandrao Chandekar** has participated in One week Online FDP on "**Blockchain Technology and Its Use Cases**" organized by Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune in association with The Institution of Engineers (India), Pune Local Centre & SoftTech Data Securities held from 20th March, 2023 to 25th March, 2023.

Dr. SWAPNAJA UBALE

Ms. S. A. KAKAD

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Successfully Completing One Week Online FDP on "Recent Trends in Solar Photovoltaic Technology with IOT based Monitoring System & its Applications" on 10th April 2023 to 15th April 2023 Organized by Electronics & Communication Department & Electrical Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur in association with Indian Society for Technical Education (ISTE), Institution of Engineers India IE(I) & Industry Partner National InfoTech Surat, Mega power Solar Future Energies, Nagpur

Prof. Rohini Pochhi
Hod ECE

Dr. Prashant Thakre
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Prof. Pragati Patil
Vice-Principal

Prof. Sandeep Gaikwad
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Pravin Tajane

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Shrutika Wankhade

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Hod ECE

Dr. Prashant Thakre
Hod EE

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Guru Nanak Institute of Engineering & Technology

Dahegaon Kalmeshwar Road, Nagpur- 441501

Two Day's Hybrid Mode Workshop on
"National Education Policy 2020 : Transforming Vision into
Quality Engagement at Higher Education Institutions"

Certificate of Appreciation

This is to certify that Dr./Mr./Ms. Rohini Pochhi
of Tulsiramji Gaikwad Patil college of Engineering and Technology, Nagpur has attended NAAC Sponsored Two Day's
Workshop on "National Education Policy 2020 : Transforming Vision into Quality Engagement
at Higher Education Institutions" Organize By Internal Quality Assurance Cell, Guru Nanak
Institute of Engineering & Technology, Nagpur during 13th - 14th March 2023. We appreciate
your enthusiastic participation in workshop.

S.S. Ragit

Dr. Satishchandra Ragit
Coordinator & Head IQAC

Rajendra Bhombe

Prof. Rajendra Bhombe
Co-Convenor & Vice Principal

Hemant Hajare

Dr. Hemant Hajare
Convenor & Principal



Maharashtra State Board of Technical Education

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021715

49, Kherwadi, Bandra (East), Mumbai - 400 051

CERTIFICATE

Date: 21/04/2023

This is to certify that Shri / Smt. ROHINI D. POCHHI
designation HEAD & ASST. PROFESSOR, Institute TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGG & TECH, NAGP
has successfully completed the training in OUTCOME BASED EDUCATION AND NBA PERSPECTIVE
from 19/4/2023 to 21/4/2023 conducted by AUTOMOBILE ENGINEERING
DEPARTMENT, GOVERNMENT POLYTECHNIC, NAGPUR

G. K. Awari
Dr. G. K. AWARI
Program Co-ordinator



Rajendra Bhombe
Deputy Secretary

Hemant Hajare
Principal
Government Polytechnic, NAGPUR

Hemant Hajare
Director



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Hod ECE

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NAAC A+ 3.32 CGPA

Certificate of Participation

This is to certify that Prof. Rahul Dhutur has successfully completed Three Days Capacity Building Workshop on **Outcome Based Education and Implementation of OBLT** from 27th January to 29th January, 2022 organised by Academic Cell of Tulsiramji GaiKWad-Patil College of Engineering & Technology, Nagpur.

Prof. Anup Gade
Dean Academics

Prof. Pragati Patil
Vice-Principal

Dr. Geeta Padole-GaiKWad
Principal

Prof. Sandeep GaiKWad
Treasurer

Date: 29/01/2022

B.TECH | B.ARCH | M.TECH | MBA | MCA | DIPLOMA | INTERNATIONAL SCHOOL | SKILL DEVELOPMENT



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This certificate is awarded to
RADHARAMAN SHAHA
 for successfully completing the course



Education for Sustainable Development

with a consolidated score of **93** %

Online Assignments	22.66/25	Proctored Exam	70.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1901

Jan-Apr 2023
 (12 week course)

Debjanee
 Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS17S34271015

To validate the certificate



No. of credits recommended: 3 or 4



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 for successfully completing the course



Education for Sustainable Development

with a consolidated score of **93** %

Online Assignments	22.66/25	Proctored Exam	70.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **1901**

Jan-Apr 2023
 (12 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS17S34271015

To validate the certificate



No. of credits recommended: 3 or 4



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Education for Sustainable Development

with a consolidated score of **93** %

Online Assignments	22.66/25	Proctored Exam	70.5/75
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Total number of candidates certified in this course: **1901**

Jan-Apr 2023
 (12 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS17S34271015

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No. of credits recommended: 3 or 4



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3.32 CGPA



NPTEL-AICTE Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of **69 %**Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Feb 2022)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL22GE05S33980858

To validate and check scores: <http://npTEL.ac.in/noc>

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

**Elite**

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Ethics In Engineering Practice

with a consolidated score of **65 %**

Online Assignments	20/25	Proctored Exam	45/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **3261**Aug-Oct 2022
(8 week course)
Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG95S43872992

To validate the certificate



No. of credits recommended: 2 or 3



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This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Ethics In Engineering Practice

with a consolidated score of **65** %

Online Assignments	20/25	Proctored Exam	45/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **3261**

Aug-Oct 2022

(8 week course)

Prof. Debjani Chakraborty

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG95S43872992

To validate the certificate



No. of credits recommended: 2 or 3



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This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Ethics In Engineering Practice

with a consolidated score of **65** %

Online Assignments	20/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **3261**

Aug-Oct 2022

(8 week course)

Prof. Debjani Chakraborty

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG95S43872992

To validate the certificate



No. of credits recommended: 2 or 3



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This certificate is awarded to
RADHARAMAN SHAHA
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Ethics In Engineering Practice

with a consolidated score of **65** %

Online Assignments	20/25	Proctored Exam	45/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **3261**

Aug-Oct 2022
 (8 week course)

Debjani
Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG95S43872992

To validate the certificate



No. of credits recommended: 2 or 3



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This certificate is awarded to
RADHARAMAN SHAHA
 for successfully completing the course

Introduction to Professional Scientific Communication

with a consolidated score of **60** %

Online Assignments	18.33/25	Proctored Exam	41.51/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **466**

Ratish
Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jan-Feb 2023
 (4 week course)

Satyaki
Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23BT09S35240247

To validate the certificate



No. of credits recommended: 1 or 2



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This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Introduction to Professional Scientific Communication

with a consolidated score of **60 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Feb 2023)

Roll No: NPTEL23BT09S35240247

Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
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F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Teaching And Learning in Engineering (TALE)

with a consolidated score of **73** %

Online Assignments	20.42/25	Proctored Exam	52.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **474**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Feb 2023

(4 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL23GE24S45241466

To validate the certificate



No. of credits recommended: 1 or 2



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This certificate is awarded to

RADHARAMAN SHAHA

for successfully completing the course

Teaching And Learning in Engineering (TALE)

with a consolidated score of **73** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Feb 2023)

Roll No: NPTEL23GE24S45241466

Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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This certificate is awarded to
RADHARAMAN SHAHA
for successfully completing the course



Training of Trainers

with a consolidated score of **75** %

Online Assignments	24.06/25	Proctored Exam	51/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1423**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Oct 2022

(12 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL22MG61S33872703

To validate the certificate



No. of credits recommended: 3 or 4



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Training of Trainers

with a consolidated score of **75** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2022)

Roll No: NPTEL22MG61S33872703

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
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TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)

An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

• NAAC ACCREDITED WITH 'A+' GRADE • An ISO 9001:2015 Certified Institution



3.32 CGPA

• Email: principal@tgpct.com, registrar@tgpct.com

• Web: www.tgpct.com

• NH7, Wardha Road, Mohgaon, Nagpur - 441108




This is to certify that



RADHARAMAN SHAHA

has successfully completed all the requirements for SWAYAM-NPTEL Domain Certification in

Faculty Domain - Advanced
(Faculty)

The courses were completed in the period April 2023

Prof. Devendra Jalihal
Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Roll No: NPTELDS23200000191

To validate and check scores:
<https://nptel.ac.in/>



Course Details

Course Type	Course Name	Duration	Offering Institute	Course Timelines	Marks Obtained (Out of 100)	QR Code
core	Effective Engineering Teaching in Practice	6 weeks	IIT Madras	Jan-Feb-2023	65	
core	Ethics in Engineering Practice	8 weeks	IIT Kharagpur	Aug-Oct-2022	65	
core	Introduction to Professional Scientific Communication	6 weeks	IIT Kanpur	Jan-Feb-2023	80	
core	Teaching And Learning in Engineering (TAL)	4 weeks	IIT Bangalore	Jan-Feb-2023	73	
core	NBA Accreditation and Teaching Learning in Engineering (NABE)	12 weeks	IIT Bangalore	Jan-Apr-2021	77	
Elective	Training of Trainers	12 weeks	IIT Roorkee	Jul-Oct-2022	75	
Elective	Education for Sustainable Development	12 weeks	IIT Kharagpur	Jan-Apr-2023	93	
Total Marks					512	

Criteria for certification in **Faculty Domain - Advanced Domain**:
The candidate should complete the prescribed 5 core courses and 2 elective courses:
1. Scoring a minimum of ≥ 55 marks in each course and should pass the course too.
2. Average of all courses in the domain should be ≥ 60 .
3. Sum of the duration of the courses should be ≥ 40 weeks.





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has successfully completed all the requirements for SWAYAM-NPTEL Domain Certification in

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The courses were completed in the period April 2023

Prof. Devendra Jalihal
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Prof. Andrew Thangaraj
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Roll No: NPTELDS23200000191

To validate and check scores:
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Elective	Education for Sustainable Development	12 weeks	IIT Kharagpur	Jan-Apr-2023	93	
Total Marks					512	

Criteria for certification in **Faculty Domain - Advanced Domain**:
The candidate should complete the prescribed 5 core courses and 2 elective courses:
1. Scoring a minimum of ≥ 55 marks in each course and should pass the course too.
2. Average of all courses in the domain should be ≥ 60 .
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Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course



Education for Sustainable Development

with a consolidated score of **80** %

Online Assignments	21.53/25	Proctored Exam	58.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1901

Jan-Apr 2023

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS17S44270906

To validate the certificate



No. of credits recommended: 3 or 4



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course



Education for Sustainable Development

with a consolidated score of **80** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23HS17S44270906

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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3.32 CGPA

**Elite****NPTEL Online Certification**

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Effective Engineering Teaching In Practicewith a consolidated score of **70** %

Online Assignments	24/25	Proctored Exam	46.26/75
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Total number of candidates certified in this course: **366****Prof. Devendra Jalihal**
Chairman
Centre for Continuing Education, IITMJan-Feb 2022
(4 week course)**Prof. Andrew Thangaraj**
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras



Roll No: NPTEL22GE05S43982550

To validate and check scores: <https://npTEL.ac.in/noc>**NPTEL-AICTE**
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Effective Engineering Teaching In Practicewith a consolidated score of **70** %**Prof. Andrew Thangaraj**
NPTEL Coordinator
IIT Madras

(Jan-Feb 2022)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL22GE05S43982550

To validate and check scores: <http://npTEL.ac.in/noc>

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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3.32 CGPA



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Ethics In Engineering Practice

with a consolidated score of **62** %

Online Assignments	20/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **3261**

Aug-Oct 2022

(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22MG95S33870430

To validate the certificate



No. of credits recommended: 2 or 3



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Ethics In Engineering Practice

with a consolidated score of **62** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Aug-Oct 2022)

Roll No: NPTEL22MG95S33870430

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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DTE
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3.32 CGPA



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Thingswith a consolidated score of **65** %

Online Assignments	24.78/25	Proctored Exam	39.89/75
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Total number of candidates certified in this course: **5469**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS95S63872491

To validate the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Thingswith a consolidated score of **65** %

Online Assignments	24.78/25	Proctored Exam	39.89/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **5469**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS95S63872491

To validate the certificate



No. of credits recommended: 3 or 4



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DTE
CODE
4151

3.32 CGPA

**Elite****NPTEL Online Certification**

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Thingswith a consolidated score of **65** %

Online Assignments	24.78/25	Proctored Exam	39.89/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **5469**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS95S63872491

To validate the certificate



No. of credits recommended: 3 or 4

**NPTEL-AICTE**
Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Introduction to Professional Scientific Communicationwith a consolidated score of **66** %**Prof. Andrew Thangaraj**
NPTEL Coordinator
IIT Madras

(Jan-Feb 2023)

Roll No: NPTEL23BT09S35240026

Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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3.32 CGPA

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• Web: www.tgpct.com

• NH7, Wardha Road, Mohgaon, Nagpur - 441108





**DOMAIN
CERTIFICATE**

This is to certify that



CHETAN ASHOKRAO JAMBHULKAR

has successfully completed all the requirements for SWAYAM-NPTEL Domain Certification in

Faculty Domain - Advanced

(Faculty)

The courses were completed in the period: April 2023



Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM



Prof. Anand Thangaraj
NPTEL Coordinator
IIT Madras

Roll No: NPTELD523200000178

To validate and check scores:
<https://nptel.ac.in/>




Course Details

Course Type	Course Name	Duration	Offering Institute	Course Timeline	Marks Obtained (Out of 100)	QR Code
core	Effective Engineering Teaching in Practice	8 weeks	IIT Madras	Jan-Feb-2023	70	
core	Ethics in Engineering Practice	8 weeks	IIT Kharagpur	Aug-Oct-2022	92	
core	Introduction to Professional Scientific Communication	4 weeks	IIT Kanpur	Jan-Feb-2023	86	
core	Teaching And Learning in Engineering (TAL)	4 weeks	IIT Bangalore	Jan-Feb-2023	75	
core	NSA Accreditation and Teaching Learning in Engineering (NAB)	12 weeks	IIT Bangalore	Jan-Apr-2021	72	
Elective	Training of Trainers	12 weeks	IIT Bombay	Jul-Oct-2022	69	
Elective	Education for Sustainable Development	12 weeks	IIT Kharagpur	Jan-Apr-2023	80	
Total Marks					484	

Criteria for certification in **Faculty Domain - Advanced Domain**:
The candidate should complete the prescribed 5 core courses and 2 elective courses:
1. Score a minimum of ~55 marks in each course and should pass the courses too.
2. Average of all courses for the domain should be ~62.
3. Sum of the duration of the courses should be ~40 weeks.





CERTIFICATE OF APPRECIATION TO

CHETAN ASHOKRAO JAMBHULKAR

for being recognized as NPTEL MOTIVATED LEARNER

JAN-APR 2023

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

NPTEL MOTIVATED LEARNER

Candidate has to appear in atleast 8 exams in Jul 2021 - Jan 2023, passed in 75% of courses appeared, atleast one exam in each of the 4 semesters





Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
CHETAN ASHOKRAO JAMBHULKAR
 for successfully completing the course



Teaching And Learning in Engineering (TALE)

with a consolidated score of **75 %**

Online Assignments	20.42/25	Proctored Exam	55.01/75
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Total number of candidates certified in this course: **474**

Prof. G. L. Sivakumar Babu
 Chairman, Center for Continuing Education
 IISc Bangalore

Jan-Feb 2023
 (4 week course)

Prof. L. Umanand
 NPTEL Coordinator
 IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL23GE24S45240943

To validate the certificate



No. of credits recommended: 1 or 2



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to
CHETAN ASHOKRAO JAMBHULKAR
 for successfully completing the course



Teaching And Learning in Engineering (TALE)

with a consolidated score of **75 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras



(Jan-Feb 2023)

Roll No: NPTEL23GE24S45240943

Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
 This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
 F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



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This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Training of Trainerswith a consolidated score of **69** %

Online Assignments	24.06/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **1423****Prof. Sanjeev Manhas**
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Oct 2022

(12 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee



Roll No: NPTEL22MG61S43870655

To validate the certificate



No. of credits recommended: 3 or 4

**NPTEL-AICTE**
Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CHETAN ASHOKRAO JAMBHULKAR

for successfully completing the course

Training of Trainerswith a consolidated score of **69** %**Prof. Andrew Thangaraj**
NPTEL Coordinator
IIT Madras

(Jul-Oct 2022)

Roll No: NPTEL22MG61S43870655

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18