

# e-Certificate of Participation



Date of issue: 26/06/2021

**Dr. Soobhankar Pati** (Course Coordinator)

Prof. S. K. Mahapatra (Course Coordinator & Dean, CE)



# राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

# **National Institute of Technology Delhi**

(An Autonomous Institute under the aegis of Ministry of Education, Govt. of India)

# **DEPARTMENT OF MECHANICAL ENGINEERING, NIT DELHI**

# Certificate of Participation

This certificate is awarded to **Dr. Renuprava Dalai** of **VSSUT Burla, Odisha** for Participating in self finance online faculty Development Programme on **"Modern Trends in Manufacturing and Thermal Science** (MTMTS-2022)" organized by Department of Mechanical Engineering, National Institute of Technology Delhi, India, held during April 05-10th, 2022.

Dr. Ashok Kumar Dewangan (Coordinator)

Dr. Leeladhar Nagdeve (Coordinator)

umar

Dr. Harish Kumar (Convener)



CERTIFICATE OF PARTICIPATION

This certificate is awarded to

# Dr. Sasmita Behera

of Veer Surendra Sai University of Technology, Burla in recogniton of his/her participation and completion of Live Industrial Training on ANSYS Software organised by EnFlare Technologies from 16<sup>th</sup>-25<sup>th</sup> August, 2021

ertificate ID: EFTIND059

Venkata Sarath Panathula

Co-Founder & CTO, EFT



25th August, 2021

Date

NITTTRK/ICT/2022-23/0142

Certificate of Participation



has completed One Week

Short Term Training Programme through ICT Mode on *Estimating and Costing of Non-conventional Energies* organised by this Institute

from 9th May to 13th May, 2022 successfully.

Smt. Sheela Yadav Rai Programme Coordinator(s)

Sumanta 18. Nasar

Dr. Sukanta Kumar Naskar Faculty-in-Charge, Training Cell

Prof. Debi Prasad Mishra Director



NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH (NITTTR) KOLKATA

(Established by the Ministry of Education Government of India)



## Maharishi University of Information Technology

(Established Vide Uttar Pradesh Act. No. 31 of 2001) Lucknow-226013 (UP)

### **CERTIFICATE NO.: MUIT/FDP/FEB\_2022/95**

Date: 01/03/2022

### **CERTIFICATE OF PARTICIPATION**

This is to certify that

Subhadra Sahoo

has successfully completed 5-Day Online Faculty Development Program

On

"CRITICAL INSIGHTS ON VISION AND READINESS FOR ADOPTING NEP-2020 BY HEIS"

Organized by

Maharishi University of Information Technology

7th February - 11th February 2022

Prof. Bhanu Pratap Singh Vice Chancellor, MUIT

Komehod

Dr. Neeraj Jain FDP Convener, MUIT

Mr. Kamshad Mohsin FDP Convener, MUIT

#### Roll No:NPTEL21GE07S24280060

TO DR SASMITA ACHARYA QTR NO C/73 JAGRUTI VIHAR BURLA SAMBALPUR ODISHA - 768020 PH. NO :9437230871



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 8 Weeks



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

This certificate is awarded to

### **DR SASMITA ACHARYA**

for successfully completing the course

**Fuzzy Logic and Neural Networks** 

with a consolidated score of 91 %

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

Roll No: NPTEL21GE07S24280060

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Feb-Apr 2021)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

#### Roll No: NPTEL21CS11S22250000

To DR SASMITA ACHARYA QTR NO C/73 JAGRUTI VIHAR BURLA SAMBALPUR ODISHA - 768020 PH. NO :9437230871



%

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

#### No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



This certificate is awarded to

#### DR SASMITA ACHARYA

for successfully completing the course

#### Introduction to Soft Computing

with a consolidated score of 83

Online Assignments 23.58/25 Proctored Exam 59.12/75

Total number of candidates certified in this course: 166

Prof. G P Raja Sekhar Dean, Continuing Education IIT Kharagpur Jan-Mar 2021 (8 week course)



Prof. Debjani Chakraborty Coordinator, NPTEL IIT Kharagpur



Indian Institute of Technology Kharagpur

Roll No:NPTEL21CS11S22250000

#### Roll No:NPTEL21CS63S44290110

TO DR SASMITA ACHARYA QTR NO C/73 JAGRUTI VIHAR BURLA SAMBALPUR ODISHA - 768020 PH. NO :9437230871



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 12 Weeks



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

### **DR SASMITA ACHARYA**

for successfully completing the course

**Introduction to Internet of Things** 

with a consolidated score of 64 %

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

Roll No: NPTEL21CS63S44290110

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Jul-Oct 2021)



# DEPARTMENT OF MECHANICAL ENGINEERING TEOIP

Indira Gandhi Institute of Technology, Sarang Dhenkanal-759146, Odisha

# TEQIP-III Sponsored One Week Faculty Development Programme (FDP) on **'Concepts & Applications of Composite Materials'** (CACM-2021)

# Certificate of Participation

This certificate is hereby presented to

# **Mrs. SUNITA SETHY**

ASSISTANT PROFESSOR, VSSUT, BURLA

has actively participated in TEQIP-III sponsored one week online Faculty Development Programme (FDP) on 'Concepts & Applications of Composite Materials (CACM-2021)'

organized by the Department of Mechanical Engineering, IGIT, Sarang, 759146 from 23rd-27th February 2021.

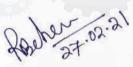
Mr. Ansuman Padhi (Coordinator)

Mr. Gaurab Kumar Ghosh (Coordinator)

251 02 2021

Dr. Satyabrata Mohanta (Director)

**Dr. Bidyadhar Sahoo** (Head of the Department, Mechanical Engineering)



Dr. Rabindra Behera nt, (Teqip-III Coordinator)



Technical Education Quality Impr



# e-Certificate of Participation



Date of issue: 26/06/2021

**Dr. Soobhankar Pati** (Course Coordinator)

**Prof. S. K. Mahapatra** (Course Coordinator & Dean, CE)

#### Roll No:NPTEL22MM06S14150025

TO DINESH KUMAR MISHRA ROOM NO-B-317, DEPARTMENT OF MME VSSUT, BURLA BURLA ODISHA - 768018 PH. NO :8763457107



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 8 Weeks



### **DINESH KUMAR MISHRA**

for successfully completing the course

**Properties of Materials (Nature and Properties of Materials : III)** 

with a consolidated score of 77 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Feb-Apr 2022)

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

Roll No: NPTEL22MM06S14150025

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

#### Roll No:NPTEL21MM29S14200068

TO DINESH KUMAR MISHRA ROOM NO-B-317, DEPARTMENT OF MME VSSUT, BURLA BURLA ODISHA - 768018 PH. NO :8763457107



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



This certificate is awarded to

### **DINESH KUMAR MISHRA**

for successfully completing the course

Phase Equilibria in Materials (Nature & Properties of Materials-II)

This

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras with a consolidated score of 84 %

L. lobo

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

Roll No: NPTEL21MM29S14200068

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Jul-Sep 2021)





### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 



This is certified that Dr. Aruna Kumar Barick, Asst. Professor of VSSUT, Burla contributed as Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Emerging Trends in Characterization Techniques for Applied Polymer Research" from 13/09/2021 to 17/09/2021 at CENTRAL INSTITUTE OF PETROCHEMICALS EENGINEERING & TECHNOLOGY (CIPET).

ATAL

Advisor-I, ATAL Academy Mamta Rani Agarwal





X BY

BMS SCHOOL OF ARCHITECTURE Yelahanka, Bangalore



THE INDIAN INSTITUTE OF ARCHITECTS Karnataka Chapter, Bangalore

# **CERTIFICATE OF PARTICIPATION**

This certificate is awarded to

Bharati Mohapatra

for participating in the Professional Development Program

Emerging Technologies for Architecture & Construction From 18th Sept, Saturday to 25th Sept, 2021

Conveyed by

Dr. Shaila Bantanur Director, BMS School of Architecture, Bangalore and Ar. Mohan B. R. Chairman, IIA Karnataka Chapter, Bangalore

Ar. C R Raju, President IIA

Mohant

Ar. Mohan B. R. Chairman, IIA Karnataka Chapter Bangalore

Dr. Shaila Bantanur Director, BMS School of Architecture Yelahanka, Bangalore

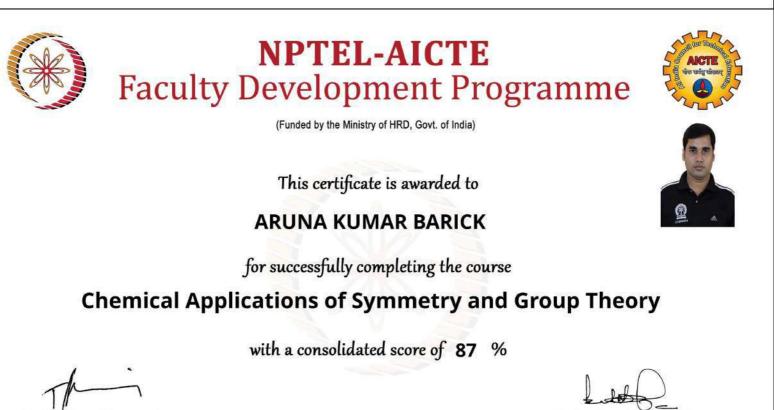
#### Roll No:NPTEL22CY28S44190093

TO ARUNA KUMAR BARICK DEPARTMENT OF CHEMISTRY VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA SAMBALPUR ODISHA - 768018 PH. NO :9937069518



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



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

Roll No: NPTEL22CY28S44190093

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Jan-Mar 2022)

#### Roll No:NPTEL21MM36S14200103

TO NILAKANTHA SAHU DEPT. OF MME VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :7894004383



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

### NILAKANTHA SAHU

for successfully completing the course

**Corrosion Failures and Analysis** 

with a consolidated score of 81 %

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

Roll No: NPTEL21MM36S14200103

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Jul-Sep 2021)





AICTE SPONSORED 6-Days Short Term Training Programme (STTP) EMERGING NANO-MATERIALS FOR SUSTAINABILITY

Organised by



Maulana Abul Kalam Azad University of Technology, West Bengal

This is to certify that ..... Dr. ARUNA KUMAR BARICK of

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA, SAMBALPUR, ODISHA has successfully

completed the online training programme on "EMERGING NANO-MATERIALS FOR SUSTAINABILITY " held during 30th August - 4th September 2021.

Ms. Monalisa Char

Mha ..

Program Coordinator, Department of Materials Science and Technology, MAKAUT, WB Dr. Subhashis Datta

STTP Program Coordinator, Controller of Examinations, MAKAUT, WB Dr. P.P. Lahiri

hm

Registrar MAKAUT, WB

This certificate can be considered as Half Faculty Development Program

#### Roll No:NPTEL21ME82S34290060

TO NILAKANTHA SAHU DEPT. OF MME VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :7894004383



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

### NILAKANTHA SAHU

for successfully completing the course

**Joining Technologies for Metals** 

with a consolidated score of 75 %

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

Roll No: NPTEL21ME82S34290060

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Aug-Oct 2021)

tals



#### KNOWLEDGE PARTNERS:





Institute of Town Planners, India (Odisha Regional Chapter)

# **Certificate of Participation**

This is to Certify that

## Bharati Mohapatra

Has successfully completed the Online Training Programme on **"Sustainable Urban Infrastructure & Nature based Solutions for Indian Cities"** held on 15th to 17th July, 2021

MAN

Aparna Das Senior Advisor, SUD-SC, GIZ

Darshan Parikh Director, CRDF, CEPT University

CEPT RESEARCH AND DEVELOPMENT FOUNDATION. Kasturbhai Lalbhai Campus, University Road, Navrangpura, Ahmedabad 380009 This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

#### Roll No: NPTEL21MM01S14280062

To NILAKANTHA SAHU DEPT. OF MME VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :7894004383



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

#### No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



This certificate is awarded to

#### NILAKANTHA SAHU

for successfully completing the course

#### Welding Processes

with a consolidated score of **68** 

58 %

Online Assignments 16.78/25 Proctored Exam 51.13/75

Total number of candidates certified in this course: 52

Devendra galihal

Prof. Devendra Jalihal Chairman Centre for Continuing Education, IITM Jan-Apr 2021 (12 week course)



NPTEL, Coordinator IIT Madras



Indian Institute of Technology Madras

Roll No:NPTEL21MM01S14280062

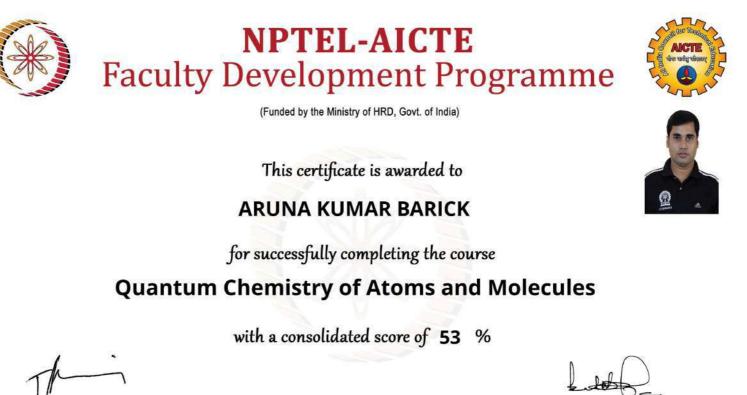
#### Roll No:NPTEL21CY38S24290111

TO ARUNA KUMAR BARICK DEPARTMENT OF CHEMISTRY VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA SAMBALPUR ODISHA - 768018 PH. NO :9937069518



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 12 Weeks** 



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

Roll No: NPTEL21CY38S24290111

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

(Jul-Oct 2021)

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

#### Roll No:NPTEL21MM01S14280062

TO NILAKANTHA SAHU DEPT. OF MME VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :7894004383



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 12 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

### NILAKANTHA SAHU

for successfully completing the course

### **Welding Processes**

with a consolidated score of 68 %



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

Roll No: NPTEL21MM01S14280062

Prof. Andrew Thangaraj

NPTEL Coordinator

**IIT Madras** 

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

(Jan-Apr 2021)



Certificate of participation

This is to certify that **Dr. Aruna Kumar Barick** has participated in the five day online Faculty Development Programme on "*Advances and Challenges in Chemical Science*", organized by the School of Sciences (Chemistry), held from 20<sup>th</sup> - 24<sup>th</sup> September, 2021.

**Dr. Amarendar Reddy** Coordinator NIT Andhra Pradesh

**Dr. Surendra** Coordinator NIT Andhra Pradesh

Dr. Dinesh P. Sankar Reddy

I/c Registrar NIT Andhra Pradesh

Issued on 27/09/2021



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Applied Soft Computing Volume 111, November 2021, 107616

# FPGA implementation of fuzzy sparse adaptive equalizer for indoor wireless communication systems

Swetaleena Sahoo (M.Tech.) ª 쯔, Yash Keju Barapatre (B.Tech.) ª 쯔, Harish Kumar Sahoo (Ph.D.) <sup>b</sup> 쓰 쯔, Sarita Nanda (Ph.D.) ª 쯔

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https://doi.org/10.1016/j.asoc.2021.107616

Highlights

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Full Text

- Help
- Sparse Adaptive Equalization Model for Indoor Communication System using Fuzzy rule based learning Parameter.
- Testing of the equalizer using IEEE 802.11 channel model and evaluation of performance measures.
- Hardware implementation of the blocks using Xilinx FPGA.

#### Abstract

Channel equalization is a basic requirement of wireless receiver to alleviate the effects of inter symbol interference (ISI) that helps in faithful reconstruction of original information. The accuracy of channel state information (CSI) also affects the equalizer performance designed for fading communication channels. The paper proposes a robust decision feedback equalizer (DFE) for indoor wireless channels with limited user mobility using sparse <u>fuzzy modeling</u>. The main contributions of the paper can be realized looking into three important aspects. First, the equalizer is designed for practical indoor channel conditions using adaptive model whose learning parameter is selected using fuzzy rule. Second, the computational complexity is substantially reduced by incorporating norm-based <u>sparsity</u> to the cost function. Third important point is validation of equalization model using Xilinx <u>FPGA</u> and Artix 7 board. QPSK modulated data is transmitted through the channel having non-ideal frequency response which is characterized by IEEE 802.11 model. Further bit error rate(BER), mean square error(MSE), eye diagram and power delay profile(PDP) are taken as the <u>performance measures</u> to test the equalizer in presence of fading effects and user mobility. Both MATLAB simulation and FPGA implementation results are presented to justify the usefulness of the proposed equalization model for indoor wireless communication.



Previous

Next >

Keywords

Indoor channel; Fuzzy rule; Norm based sparsity; PDP; Xilinx FPGA

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy

## **Certificate**

This is certified that Aruna Kumar Barick, Assistant Professor of Veer Surendra Sai University of Technology Burla participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Targeted Delivery of Green Synthesized Nanomaterials and their importance in 21st Century" from 2021-7-7 to 2021-7-11 at UTKAL UNIVERSITY.

Adviser-I, ATAL Academy

Coordinator







ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy

## **Certificate**

This is certified that Aruna Kumar Barick, Assistant Professor of Veer Surendra Sai University of Technology Burla participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Plastics Product Manufacturing & Recycling Techniques" from 2021-7-19 to 2021-7-23 at CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING AND TECHNOLOGY : CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CIPET: CSTS) GUWAHATI.

Adviser-I, ATAL Academy



Coordinator





## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **Dr. Aruna Kumar Barick**, **Asst. Professor** of **VSSUT**, **Burla** contributed as **Resource Person** in AICTE Training And Learning (ATAL) Academy **Online Elementary** FDP on "**Emerging Trends in Characterization Techniques for Applied Polymer Research**" from 13/09/2021 to 17/09/2021 at CENTRAL INSTITUTE OF PETROCHEMICALS EENGINEERING & **TECHNOLOGY** (CIPET).

Advisor-I, ATAL Academy Mamta Rani Agarwal









## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that Aruna Kumar Barick, Assistant Professor of Veer Surendra Sai University of Technology Burla participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology, Burla.



Advisor-I, ATAL Academy Mamta Rani Agarwal









## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that Dr. D.S.Ramakrishna, Assistant Professor of Veer Surendra SaiUniversity of Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Research Ethics" from 07/09/2021 to 11/09/2021 at Doctor Harisingh Gour Vishwavidyalaya Sagar.



ATA

Advisor-I, ATAL Academy Mamta Rani Agarwal









## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

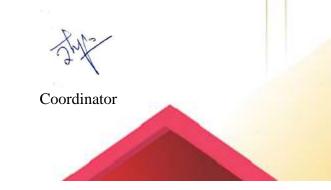
**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **BIRENDRA KUMAR BARIK**, Assistant Professor of Veer Surendra Sai University of Technology Burla, Odisha participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Emerging Techniques and Applications in IoT" from 09/08/2021 to 13/08/2021 at VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY.

Advisor-I, ATAL Academy Mamta Rani Agarwal









### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# **Certificate**

This is certified that **BIRENDRA KUMAR BARIK**, Assistant Professor of Veer Surendra Sai University of Technology Burla, Odisha participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology,Burla.

Advisor-I, ATAL Academy Mamta Rani Agarwal









### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that smita padhan, Assistant Professor of veer surendra sia university of technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology,Burla.



Advisor-I, ATAL Academy Mamta Rani Agarwal









## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that Lipsamayee Mishra, Assistant Professor of VSSUT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology,Burla.



Advisor-I, ATAL Academy Mamta Rani Agarwal









## **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

#### Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **Dr. D.S.Ramakrishna**, Assistant Professor of Veer Surendra SaiUniversity of Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Research Support Services in Academic Institutions" from 24/08/2021 to 28/08/2021 at DAYALBAGH EDUCATIONAL INSTITUTE (Deemed to be University).



Advisor-I, ATAL Academy Mamta Rani Agarwal







अंतरिक्ष विभाग /DEPARTMENT OF SPACE भारत सरकार/GOVERNMENT OF INDIA भारतीय अंतरिक्ष अनुसंधान संगठन /INDIAN SPACE RESEARCH ORGANISATION भारतीय सुदूर संवेदन संस्थान, देहरादून / INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN



नामांकन सं. / Enrolment No. : 2021841108944



# CERTIFICATE OF PARTICIPATION IN ONLINE COURSE

यह प्रमाणपत्र डॉ॰ भारती मोहापात्रा को "भू-स्थानिक मॉडलिंग द्वारा वाटरशेड प्रवंधन "

मे ऑनलाईन पाठचक्रम में भाग लेने पर प्रदान किया जाता है।

इस ऑनलाइन पाठचक्रम का आयोजन 02 अगस्त, 2021 से 06 अगस्त, 2021 ( कुल पाठचक्रम की अवधि = 7 घंटे 30 मिनट ) के दौरान किया गया ।

THIS CERTIFICATE IS

AWARDED TO

### DR. BHARATI MOHAPATRA

ON HAVING PARTICIPATED IN THE ONLINE COURSE ON

"Geospatial Modelling for Watershed Management"

THIS ONLINE COURSE WAS CONDUCTED DURING 02-08-2021 to 06-08-2021 (Total course duration was = 7 hours and

30 minutes ).

Edul - Elize 7

निदेशक/ Director आई.आई.आर.एस, देहरादून/ IIRS, Dehradun

 Date:
 19-08-2021

 Place:
 Dehradun

 UID:
 58b3cf58c272de8394262414dbf32b27

 This Certificate can be validated using URL- https://certificate.iirs.gov.in



Veer Surendra Sai University of Technology, Odisha Siddhi Vihar, Burla - 768018

**Certificate of Participation** 

This is to certify that

Mr. N. Sahu

of MME Dept.

has participated in the Five Days inhouse

#### Faculty Development Program (FDP) on Pedagogy.

Organized by

Centre for Distance and Continuing Education (CDCE), Veer Surendra Sai University of Technology, Burla, Odisha during 23<sup>rd</sup>-29<sup>th</sup> November, 2022

The.

Prof. Debabrata Dhupal Dean, CDCE, VSSUT Buand

Prof. Banshidhar Majhi Vice Chancellor, VSSUT











# SWAYAM ARPIT ONLINE COURSE CERTIFICATION

This Certificate is awarded to

# ARUNA KUMAR BARICK

### For successfully completing the ARPIT course for Career Advancement Scheme(CAS) promotion

# **Online Refresher Course In Chemistry For Higher Education**

From 1st Dec 2020 to 31st March 2021

With a Grade "C" in the proctored examination held on 21/08/2021

S.G.T.B. Khalsa College, University of Delhi

Authorised Signatory Of Institution (Course Coordinator) S.G.T.B. Khalsa College, University of Delhi

Authorised Signatory Of AICTE

Date Of Issue : 27/10/2021

ARP20AP02695187964

www.swayam.gov.in



#### DEPARTMENT OF CHEMISTRY VASAVI COLLEGE OF ENGINEERING (A) ACCREDITED BY NAAC WITH 'A++' GRADE

(Sponsored by VASAVI ACADEMY OF EDUCATION) (Affiliated to Osmania University, Hyderabad and Approved by A.I.C.T.E.) 9-5-81, Ibrahimbagh, HYDERABAD – 500 031 (Telangana), WWW.vce.ac.in

#### FACULTY DEVELOPMENT PROGRAM (Online)

#### **PARTICIPATION CERTIFICATE**

This is to certify that Mr./Ms./Dr. ARUNA KUMAR BARICK, Assistant Professor has attended One Week Online Faculty Development Program on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2021)" from 25<sup>th</sup> - 29<sup>th</sup> October, 2021 organized by the Department of Chemistry, Vasavi College of Engineering (A), Hyderabad.

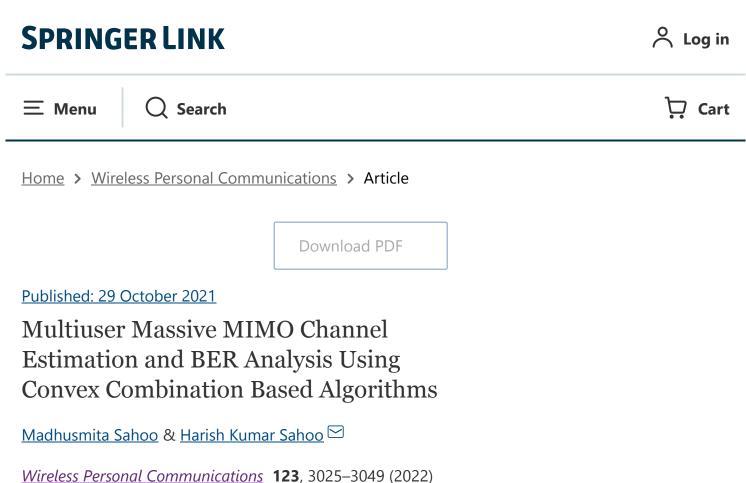
Julany

Dr. P. Sukanya Convener

Dr. P. Venugopal Co- Chairman & Head



Dr. S.V. Ramana Chairman & Principal



<u>Wireless Personal Communications</u> **123**, 3023–3049 (2

211 Accesses | 2 Citations | Metrics

#### Abstract

Massive multiple-input multiple-output (MIMO) employs a large antenna array and is used as a key technology in 5G communication standards. In this work, time-division duplex (TDD) is used for uplink (UL) and downlink (DL) channels as the same bandwidth can be utilized for bidirectional data transfer. This paper proposes a computationally efficient adaptive algorithm based channel estimation model. These models are applicable to multiuser MIMO (MU-MIMO) systems, which are comprised of a large number of channel coefficients. 8/25/23, 9:03 PM

Channel state information (CSI) is acquired from estimated channel coefficients of the UL channel, and CSI of DL is obtained through channel reciprocity. The dynamic characteristics of MIMO channels are generally sparse in nature, and the degree of sparseness varies over time. Convex combinationbased modeling with the introduction of lo norm penalty to Least mean squares (LMS) algorithm develops an efficient and stable sparse channel estimation model, which is the most significant contribution of the paper. The research work presented in the paper has simultaneously focused on channel estimation using the convex combination of momentum-fractional LMS approach and equalization for massive MIMO channels. The simulation result exhibits that the proposed method outperforms the existing conventional compressed sensing (CS) based channel estimation. The UL and DL performance of the system was investigated in terms of bit error rate (BER), mean square error (MSE), and channel capacity calculated from estimated CSI.

Access provided by Veer Surendra Sai Univ of Tech

Working on a manuscript? Avoid the common mistakes  $\rightarrow$ 



Certificate No PS-APSSDC-RESMC-3306



# Skill AP

# **CERTIFICATE** OF PARTICIPATION

NAME Dr .SASMITA BEHERA

COLLEGE VSSUT

has Successfully Completed 30 Days Renewable Energy Master Class

at Pantech e Learning Pvt Ltd, Chennai

From Oct 17,2021 To Nov 16,2021



M.Malaiappan Director Pantech e Learning



Dr. Ravi Gujjala Chief General Manager (Technical) APSSDC

Prof. Rama Koti Reddy Executive Director APSSDC

Rehan

N Bangara Raju Managing Director APSSDC

# Pantech e Learning





In Association With VTU & AKU



# TEQIP-III, BPUT Odisha (ATU)

# KMBB COLLEGE OF ENGINEERING AND TECHNOLOGY, BHUBANESWAR

Present this Certificate of Participation to

Prof. / Dr. / Mr. / Ms. Sanjib Kumar Nayak

### of\_VSS UNIVERSITY OF TECHNOLOGY

for his / her active and instrumental participation during the conduct of TEQIP-III, BPUT Odisha (ATU) sponsored One-week Online Short Term Training Program on "Renewable Energy Technology and Applications (RETA-2021)" held during 8<sup>th</sup>-13<sup>th</sup> January 2021 in the Department of Mechanical Engineering, KMBB College of Engineering and Technology, Bhubaneswar, Odisha.



Certificate No. -: BPUT/TEQIP-III/KMBB/RETA 2021/027



Dr. Bhabani Prasanna Pattanaik Convener & Principal, KMBB CET, Bhubaneswar



Dr. Bijuni Charan Sutar Coordinator & Dean Academics, KMBB CET, Bhubaneswar

# 3<sup>rd</sup> short term course on Corrosion and its Control and Characterization

<u>13 - 17 December, 2021</u>

# Certificate of **Farticipation**

This is to certify that

# Manila Mallik of Veer Surendra Sai University of Technology, Burla

has successfully completed the 3<sup>rd</sup> short term course on Corrosion and its Control and Characterization jointly organized by Department of Metallurgical and Materials Engineering and Chemical Engineering Department, National Institute of Technology, Rourkela.





Adhidesh S Kumawat Course Coordinator





### SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR ALAPPUZHA-690529, KERALA

One Week Online Faculty Development Programme on BIOFUELS-RECENT TRENDS AND FUTURE PROSPECTS

# **Certificate of Participation**

### This is to certify that

Subhadra Sahoo, Assistant Professor

VSSUT, BURLA Sambalpur

has participated in the

**One Week Online Faculty Development Programme** 

on

**BIOFUELS-RECENT TRENDS AND FUTURE PROSPECTS** 

organized by the Biotechnology & Biochemical Engineering Department from

**30th AUGUST - 3rd SEPTEMBER 2021** 

Dr. Abhinav K Nair Coordinator

**Ms. Anju Raj** Coordinator



Banna

Ms. Shamnamol G K Coordinator

(10/U)

Dr. K Krishnakumar Principal

Prof. Meerabai S

Convener



# National Institute of Technology Rourkela





Certificate of Participation

This is to certify that <u>Dr. Manila Mallik</u> of <u>VSSUT BURLA</u> has participated in the SERB-sponsored 2-days virtual mode workshop on "MECHANICALLY ASSISTED SURFACE TREATMENT" organized by Department of Metallurgical and Materials Engineering, National Institute of Technology Rourkela, held during 28–29 June 2022.

Kinshi

Prof. Krishna Dutta Co-coordinator

Prof. Anindya Basu Coordinator



Ref: NITMN/AICTE 21-22/FDP/2022-P047

This is certified that **Dr. Sasmita Behera** of **Veer Surendra Sai University of Technology, Burla** has participated in AICTE sponsored one week Faculty Development Program (FDP) on **"Management of Intellectual Property Uncertainty in Designing and Manufacturing for Electric Vehicle Systems**" organized by Electrical Engineering Department, National Institute of Technology Manipur, held during 21<sup>st</sup>–25<sup>th</sup> Feb. 2022.

Dr. Kundan Kumar Coordinator, EED, NIT Manipur Shuma Idhikari Dr. Shuma Adhikari **HoD, EED, NIT Manipur** 

Receit

Prof. (Dr.) Rajesh Kumar Bhushan **Dean Academics, NIT Manipur** 



### Madanapalle Institute of Technology and Science (UGC Autonomous Institution)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi NAAC Accredited Institution with A+ Grade, NIRF Indian Ranking 2021- Band: 201-250 in the Engineering Discipline, NBA Accredited -B.Tech (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA





Five Day Workshop on Artificial Intelligence and Machine Learning with a hands-on Session using MATLAB (Online-mode)

Certificate of Participation

This is to certify that <u>Dr. Sasmita Behera</u> Of <u>VSSUT</u> has participated in the Five-days' workshop on Artificial Intelligence and Machine Learning with a hands-on Session using MATLAB (online mode) from 3<sup>rd</sup> to 7<sup>th</sup> November 2021 at Department of Electronics and Communication Engineering, Madanapalle Institute of Technology and Science (MITS), Madanapalle, Andhra Pradesh, India.

Dr. Pradosh Ranjan Sahoo Workshop Coordinator, MITS

Dr. Soumya Ranjan Mahapatro Workshop Coordinator, MITS

Dr. S. Rajasekara HoD, ECE, MITS

Dr. C. Yuvaraj Principal, MITS











# SWAYAM ARPIT ONLINE COURSE CERTIFICATION

This Certificate is awarded to

# SUBHADRA SAHOO

### For successfully completing the ARPIT course for Career Advancement Scheme(CAS) promotion

# Refresher Course on Teacher and Teaching in Higher Education

From 1st Dec 2020 to 31st March 2021

With a Grade "B" in the proctored examination held on 21/08/2021

Savitribai Phule Pune University Pune

Authorised Signatory Of Institution (Course Coordinator) Savitribai Phule Pune University Pune



Authorised Signatory Of AICTE

Date Of Issue : 27/10/2021

ARP20AP18202242179

www.swayam.gov.in



# e-Certificate of Participation





**Dr. N. B. Puhan** (Course Coordinator)

Dr. S. P. Dash (Course Coordinator)

Prof. S. K. Mahapatra (Dean, Continuing Education)





### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **BIBHUTI PRASAD SAHOO**, Assistant Professor of Veer Surendra Sai University of Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Type-1 and Type-2 Fuzzy Logic and Its Applications" from 06/12/2021 to 10/12/2021 at Indian Institute of Information Technology Kota.



Advisor-I, ATAL Academy Mamta Rani Agarwal









### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **BIBHUTI PRASAD SAHOO**, Assistant Professor of Veer Surendra Sai University of Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Mathematical Modelling and Controller Design for Non-Linear Process" from 11/10/2021 to 15/10/2021 at Sree Vidyanikethan Engineering College.



Advisor-I, ATAL Academy Mamta Rani Agarwal







# **NPTEL-AICTE** Faculty Development Programme



(Funded by the MoE, Govt. of India)

This certificate is awarded to

# SUBHADRA SAHOO

for successfully completing the course

# **Environmental Degradation and Surface Engineering**

with a consolidated score of 69 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Jul-Oct 2022)

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

#### Roll No: NPTEL22MM36S63110110

Duration of NPTEL course : 12 Weeks

#### Roll No:NPTEL22ME47S34190018

TO BIBHUTI PRASAD SAHOO QR NO-BF/3, VSSUT STAFF COLONY FANDI CHAKA BURLA ODISHA - 768018 PH. NO :7978509438



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

#### **BIBHUTI PRASAD SAHOO**

for successfully completing the course

#### **Evolutionary Computation for Single and**

#### Multi-Objective Optimization

with a consolidated score of 68 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras Libo

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

Roll No: NPTEL22ME47S34190018

(Jan-Mar 2022)

To validate and check scores: http://nptel.ac.in/noc

#### Roll No:NPTEL22MM05S34190026

TO RENU PRAVA DALAI DEPARTMENT OF MME, VSSUT BURLA DEPARTMENT OF MME, VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :9439577301



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

#### **RENU PRAVA DALAI**

for successfully completing the course

#### **Materials Science and Engineering**

with a consolidated score of 70 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

Roll No: NPTEL22MM05S34190026

L.

(Jan-Mar 2022)

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

To validate and check scores: http://nptel.ac.in/noc

#### Roll No:NPTEL22MM06S14150023

TO RENU PRAVA DALAI DEPARTMENT OF MME, VSSUT BURLA DEPARTMENT OF MME, VSSUT BURLA SAMBALPUR ODISHA - 768018 PH. NO :9439577301



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

**Duration of NPTEL course: 8 Weeks** 



# **NPTEL-AICTE** Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

#### **RENU PRAVA DALAI**

for successfully completing the course

#### **Properties of Materials (Nature and Properties of Materials : III)**

with a consolidated score of 75 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Feb-Apr 2022)

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

Roll No: NPTEL22MM06S14150023

#### Roll No:NPTEL21CS63S44290110

TO DR SASMITA ACHARYA QTR NO C/73 JAGRUTI VIHAR BURLA SAMBALPUR ODISHA - 768020 PH. NO :9437230871



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 12 Weeks



# **NPTEL-AICTE** Faculty Development Programme

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

This certificate is awarded to

#### **DR SASMITA ACHARYA**

for successfully completing the course

### Introduction to Internet of Things

with a consolidated score of 64 %

(Jul-Oct 2021)

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

Roll No: NPTEL21CS63S44290110

Litt

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

To validate and check scores: http://nptel.ac.in/noc

ଡଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ.



ODISHA POWER TRANSMISSION CORPORATION LIMITED (A Government of Odisha Undertaking) E.H.T (O&M) DIVISION, BURLA PO:Burla,Dist:Sambalpur-768017 E-mail:ehtm.div.brl@optcl.co.in

Letter No. EHTD/ 393

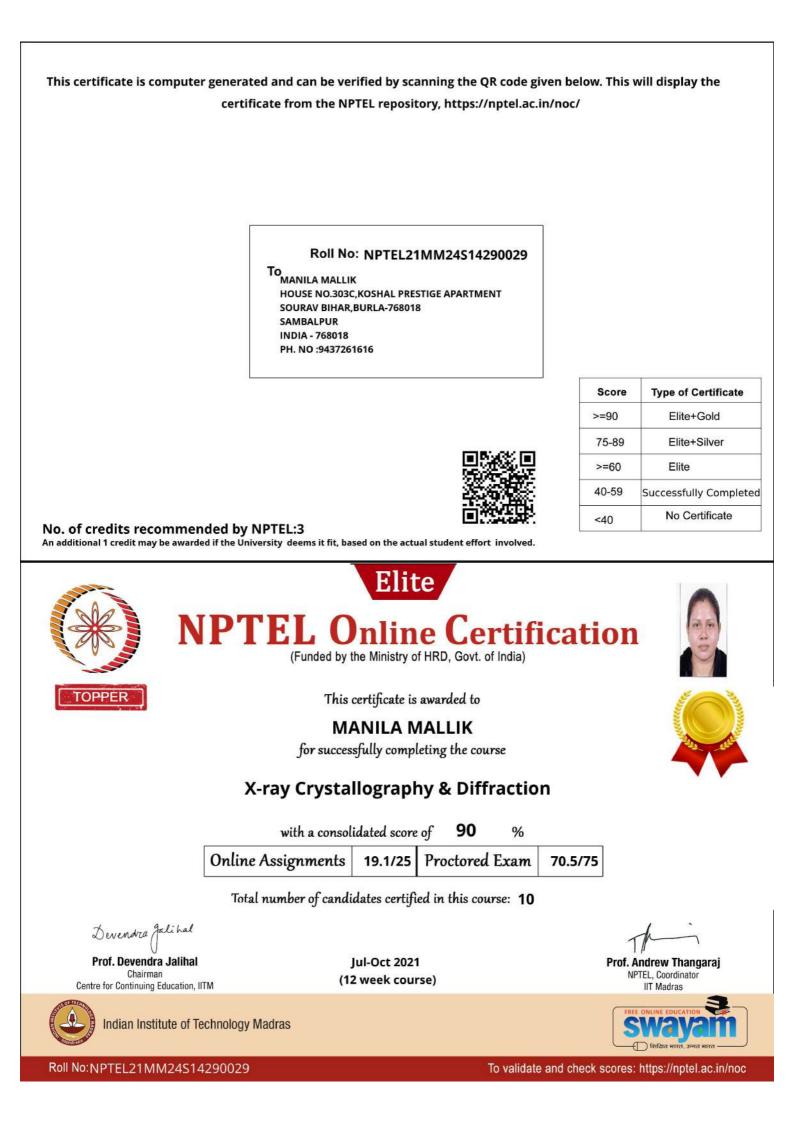
Date: 16,06,2022.

#### **TO WHOM IT MAY CONCERN**

This is to certify that **Sri Bibhuti Prasad Sahoo**, Asst. Professor, Department of Electrical & Electronics Engineering of **Veer Surendra Sai University Of Technology, Burla** has successfully undergone Industrial training on "**Transmission System**" for a period of 15days from Dt. 23.05.2022 to 06.06.2022 at 220/132/33KV GRID SUB-STATION, KATAPALI & 132/33 KV GRID SUB-STATION, SAMBALPUR under EHT(O&M) Division,OPTCL, Burla.

DEPUTY GENERAL MANAGER (ELE.) EHT(O&M) DIVISION,BURLA Deputy General Manager (El.) EHT (O&M) Division OPTCL Parts







Indian Institute of Technology Kharagpur

Roll No:NPTEL21MM18S44290084

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

() शिवित

#### Roll No:NPTEL22EE31S24150063

TO BIBHUTI PRASAD SAHOO QR NO-BF/3, VSSUT STAFF COLONY FANDI CHAKA BURLA ODISHA - 768018 PH. NO :7978509438



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 12 Weeks



# **NPTEL-AICTE** Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

#### **BIBHUTI PRASAD SAHOO**

for successfully completing the course

### **Control Engineering**

with a consolidated score of 51 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Jan-Apr 2022)

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

Roll No: NPTEL22EE31S24150063





#### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

#### AICTE Training And Learning (ATAL) Academy

### **Certificate**

This is certified that **SUNITA SINGH NAIK**, **Assistant Professor** of **VSSUT** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary** FDP on "**Classical Optimization Techniques in Manufacturing systems**" from **2021-07-05** to **2021-07-09** at **GURU NANAK INSTITUTIONS TECHNICAL CAMPUS TELANGANA**.

Adviser-I, ATAL Academy

# En Flare TECHNOLOGIES

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

# Mrs. Sunita Singh Naik

of Veer Surendra Sai University of Technology, Burla in recogniton of his/her participation and completion of Live Industrial Training on ANSYS Software organised by EnFlare Technologies from 16<sup>th</sup>-25<sup>th</sup> August, 2021

Venkata Sarath Panathula

Co-Founder & CTO, EFT



25th August, 2021

Date





### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that JANAKI DEHURY, Assistant Professor of VSSUT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence and Machine Learning" from 22/11/2021 to 26/11/2021 at Veer Surendra Sai University of Technology (VSSUT) Odisha.

Advisor-I, ATAL Academy Mamta Rani Agarwal









### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **Debasmita Mishra**, **Assistant Professor** of **Veer Surendra Sai University of Technology,Burla** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary FDP** on "**Artificial Intelligence and Machine Learning**" from 22/11/2021 to 26/11/2021 at Veer Surendra Sai University of Technology (VSSUT) Odisha.



Advisor-I, ATAL Academy Mamta Rani Agarwal







### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that **Debasmita Mishra**, Assistant Professor of Veer Surendra Sai University of Technology, Burla participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Advancement in Manufacturing Processing" from 27/12/2021 to 31/12/2021 at Veer Surendra Sai University of Technology.



Advisor-I, ATAL Academy Mamta Rani Agarwal







# En Flare TECHNOLOGIES

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

# Dr. Debasmita Mishra

of Veer Surendra Sai University of Technology, Burla in recogniton of his/her participation and completion of Live Industrial Training on ANSYS Software organised by EnFlare Technologies from 16<sup>th</sup>-25<sup>th</sup> August, 2021

ertificate ID: EFTIND055

Venkata Sarath Panathula

Co-Founder & CTO, EFT



25th August, 2021

Date

# En Flare TECHNOLOGIES

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

# Dr. Debasmita Mishra

of Veer Surendra Sai University of Technology, Burla in recogniton of his/her participation and completion of Live Industrial Training on ANSYS Software organised by EnFlare Technologies from 16<sup>th</sup>-25<sup>th</sup> August, 2021

ertificate ID: EFTIND055

Venkata Sarath Panathula

Co-Founder & CTO, EFT



25th August, 2021

Date



### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy** 

# **Certificate of Appreciation**

Certificate No. ATAL/2022/1641222295

Adviser-I, ATAL Academy

ATAL

This is certified that **Dr. Debasmita Mishra**, **Assistant Professor** of **Veer Surendra Sai University of** Technology,Burla, ODISHA has successfully coordinated ATAL Online Faculty Development Programme on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021.





### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that JANAKI DEHURY, Assistant Professor of VSSUT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology,Burla.



Advisor-I, ATAL Academy Mamta Rani Agarwal









### **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy** 

# Certificate

This is certified that JANAKI DEHURY, Assistant Professor of VSSUT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Advancement in Manufacturing Processing" from 27/12/2021 to 31/12/2021 at Veer Surendra Sai University of Technology.

Advisor-I, ATAL Academy Mamta Rani Agarwal











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# Certificate

This is certified that Dr. Debasmita Mishra, Assistant Professor, Department Of Mechanical Engi of Veer Surendra Sai University of Technology,Burla contributed as Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials, Fabrication, Design & Optimization" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology,Burla.

Advisor-I, ATAL Academy Mamta Rani Agarwal











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## **Certificate**

This is certified that **SUNITA SINGH NAIK**, **Assistant Professor** of **VSSUT**, **Burla**, **Sambalpur** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Advances in Manufacturing" from 2021-7-26 to 2021-7-30 at Sardar Vallabhbhai National Institute of Technology.

Adviser-I, ATAL Academy



