



CERTIFICATE OF PARTICIPATION

This is to certify that **DEBASMITA MISHRA**

from

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

has participated the Online Training Program on

3D MODELING OF MECHANICAL SYSTEMS

conducted on 20 May 2020.

A handwritten signature in black ink, appearing to be "M S", written over a horizontal line.

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.



LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY

AN AUTONOMOUS INSTITUTE UNDER JNTU, KAKINADA
Accredited by NAAC with 'A' Grade & NBA
Jonnada (Village), Denkada (Mandal), Vizianagaram Dist. - 535 005.
Phone No. 08922-241111, 241112
E-Mail: lendi_2008@yahoo.com Website: www.lendi.org

Certificate of Participation

Proudly Presented to

Dr. DEBASMITA MISHRA

Assistant Professor

Veer Surendra University of Technology, Burla

for participating in the 3-Day Faculty Development Programme on "Advanced Material Characterization Techniques"- A Research perspective organized by the Department of Mechanical Engineering, Lendi Institute of Engineering and Technology, from 28th-30th May, 2020.

Pradeep Kumar M
Convenor

Dr. S. Srikan
Head of the Department

Dr. V.V. Rama Reddy
Principal





CERTIFICATE OF PARTICIPATION

This is to certify that **DEBASMITA MISHRA**

from

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

has participated the Online Training Program on

INTRODUCTION TO ANSYS WORKBENCH

conducted on 21 May 2020.

A handwritten signature in black ink, appearing to be "M S", written over a horizontal line.

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.



CERTIFICATE OF PARTICIPATION

This is to certify that **DEBASMITA MISHRA**

from

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

has participated the Online Training Program on

MATERIAL CHARACTERIZATION USING NANATOM

conducted on 25, 26 & 27 May 2020.

A handwritten signature in black ink, appearing to be "M S", with a horizontal line underneath.

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.



CERTIFICATE OF PARTICIPATION

This is to certify that **DEBASMITA MISHRA**

from

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

has participated the Online Training Program on

INTRODUCTION TO THERMAL ANALYSIS

conducted on 02 June 2020.

A handwritten signature in black ink, appearing to be "M S", written over a faint background image of a mechanical part.

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.



CERTIFICATE OF PARTICIPATION

This is to certify that **DEBASMITA MISHRA**

from

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

has participated the Online Training Program on

INTRODUCTION TO OPTIMIZATION TECHNIQUES

conducted on 04 June 2020.

A handwritten signature in black ink, appearing to be "M S", written over a faint background image of a mechanical part.

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.

This certificate is awarded to

Dr. Debasmita Mishra

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay

POWERED BY





2aMqKM0E0W

Supported by



Certificate of Participation

THIS TO CERTIFY THAT

Debasmita Mishra

has participated in one week Faculty Development program titled "**Manufacturing and Analysis of Advanced Materials and Engineering Structure**" organized by **Department of Aeronautical Engineering, MLR Institute of Technology** from **26-05-2020 to 30-05-2020**.



Head of the Department

AERONAUTICAL - MLRIT



Principal

MLRIT



2aMqKM0E0W

Supported by



Certificate of Participation

THIS TO CERTIFY THAT

Debasmita Mishra

has participated in one week Faculty Development program titled "**Manufacturing and Analysis of Advanced Materials and Engineering Structure**" organized by **Department of Aeronautical Engineering, MLR Institute of Technology** from **26-05-2020 to 30-05-2020**.

Head of the Department

AERONAUTICAL - MLRIT

Principal

MLRIT



Aditya Institute of Technology & Management, Tekkali

An Autonomous Institution Affiliated to JNTUK, Kakinada
Accredited by NBA; NAAC A+ Grade; Recognized by UGC under 2(f) & 12(B)
K.Kotturu, Tekkali-532201, Srikakulam, Andhra Pradesh-India
<https://www.adityatekkali.edu.in/>

Certificate

One week Faculty Development Program on

“Advanced Manufacturing Enterprise in Digital Era”

This is to certify that

Dr. DEBASMITA MISHRA

ASSISTANT PROFESSOR

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

*has participated in One week Online Faculty Development Program on
“Advanced Manufacturing Enterprise in Digital Era” Organized by
Department of Mechanical Engineering from 1st to 5th June 2020*

Dr. D. Sreeramulu
Convenor

Dr. C. J. Rao
HoD-ME

Dr. A. S. Srinivasa Rao
Principal

Prof. V. V. Nageswara Rao
Director



Outcome Based Education Software

Course Outcome and
Program Outcome
Attainment

www.vmedulife.com

vmedulife[®]

CERTIFICATE

This is to certify that

Dr. Debasmita Mishra

from

Veer Surendra Sai University of Technology, Burla

has attended webinar for
faculty development program on

"Outcome Based Education Software"

organised by vmedulife software services
on 14th May, 2020.

Director

vmedulife software services

Certificate of Participation

THIS TO CERTIFY THAT

Dr. Debasmita Mishra

Veer Surendra Sai University of Technology, Burla

has participated in one week *Faculty Development Program* titled "Manufacturing and Analysis of Advanced Materials and Engineering Structure" organized by Department of Aeronautical Engineering, MLR Institute of Technology from 26-05-2020 to 30-05-2020.

Supported by





Head of the Department
Aeronautical Engineering, MLRIT



Principal
MLRIT

CERTIFICATE OF PARTICIPATION

DESIGN OF EXPERIMENTS: AN ENGINEERING PERSPECTIVE

PROUDLY PRESENTED TO

Debasmita Mishra

Veer Surendra Sai University of Technology,
Burla

For active participation in the three days online workshop on "Design of Experiments: An Engineering Perspective" organized by **Journal of Advanced Engineering Research** & powered by **hexacube India**, on 22nd, 23rd & 24th April 2020.

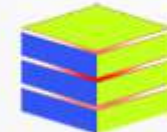
Unique Number: JAER20W01C86
Online Verification Link: jaeronline.com/verify-certificate



Managing Editor



JAER
jaeronline.com



HEXACUBE
hexacube.in



1ST INTERNATIONAL FACULTY DEVELOPMENT PROGRAM

ON

“RESEARCH AND DEVELOPMENT IN MATERIALS BEHAVIOUR, PROCESSING AND CHARACTERIZATION TECHNIQUES”

Sr. No. 87

Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms./Mrs. DEBASMITA MISHRA

from Veer Surendra Sai University of Technology, Burla

has successfully completed One Week ONLINE International Faculty Development Program on Research and Development in Materials Behaviour, Processing and Characterization Techniques from 9th - 14th June, 2020 organised by Department of Mechanical Engineering, GLA University, Mathura in association with The Indian Institute of Metals (IIM), Mathura Chapter and Panjab University, Chandigarh.

Prof. Piyush Singhal
Chairman
IIM Mathura Chapter

Dr. Kuldeep Kr. Saxena
FDP Coordinator
GLA University, Mathura

Dr. Shankar Sehgal
FDP Coordinator
Panjab University, Chandigarh

Prof. R.K. Dwivedi
FDP Coordinator
MANIT, Bhopal

No:ATAL/2020/1604984994



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 FDP** on "**3D Printing & Design**" from **2021-1-18** to **2021-1-22** at **Veer Surendra Sai University of Technology (VSSUT)**.

Director ATAL Academies



Coordinator

HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



IITBX
Infinite Learning

CDEEP

Subhadra Sahoo

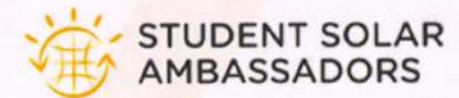
SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

A blue ink signature of Chetan Singh Solanki.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/ee379c3ea2d74f66b9d92e2f0f6a2c84/Certificate.pdf>

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA

CENTRE FOR DISTANCE AND CONTINUING EDUCATION



CERTIFICATE OF PARTICIPATION

TEQIP – III

Technical Education Quality Improvement Programme

This is to certify that

Ms. SUBHADRA SAHOO

VSSUT, BURLA

has participated in

TEQIP III Sponsored One Week Faculty Development Programme (FDP)

on

Design and Development of Materials for Technological Applications (D-MTA)

Organized by Department of Physics

from 21st October to 26th October, 2019

Dr. A.K. Pattanaik

Dr. S. K. Patri

Dr. M. P. K. Sahoo

Coordinators, D-MTA 2019

Prof. U. R. Jena

Dean CDCE & Head Physics

< ದಿಕಸೂಚಿ >
DIKSOOCHI

The Path for Success...!

#345, 6th Main, H Block, R K Nagar, Mysuru - 570022.

+91-7892702575, info.diksoochi@gmail.com

Certificate of Participation

This is to Certify,

Mr. /Ms. LINGRAJ DORA
VSSUT, BURLA

for his/her active Participation during the 3-Days Free Webinar
FDP on "**Digital Era of Teaching**" conducted by **Diksoochi, Mysuru**
from 11th May to 13th May 2020.



For **Diksoochi,**
Mysuru.



The Path for Success...!



AICTE-QIP



Certificate of Participation

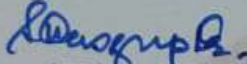
This is to certify that

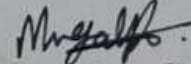
Prof./Dr./Mr./Ms. **RENUPRAVA DALAI**

of **VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA**

Participated in the Short Term Course on
ADVANCES IN POWDER METALLURGY AND 3D PRINTING

held from 10.11.2019 to 16.11.2019, organized by the
Department of Metallurgical and Materials Engineering


Dean (CE) & QIP Coordinator


Course Coordinator



< ದಿಕಸೂಚಿ >
DIKSOOCHI

The Path for Success...!

#345, 6th Main, H Block, R K Nagar, Mysuru - 570022.

+91-7892702575, info.diksoochi@gmail.com

Certificate of Participation

This is to Certify,

Mr. / Ms. MANILA MALLIK
VSSUT, BURLA

for his/her active Participation during the 3-Days Free Webinar
FDP on "**Digital Era of Teaching**" conducted by **Diksoochi, Mysuru**
from 11th May to 13th May 2020.



For **Diksoochi,**
Mysuru.



The Path for Success...!



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA

TEQIP III Sponsored FACULTY DEVELOPMENT PROGRAMME on MODERN ELECTRIC POWER SYSTEM NETWORKS "MEPSN-2019"

(Operation, Control, Metering, Trading & Maintenance)

05th - 10th August, 2019

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs/ Prof./Dr. *Bibhuti Prasad Sahoo*
of *VSSUT, Burla*

has attended the TEQIP III sponsored faculty development programme on "**MODERN ELECTRIC POWER SYSTEM NETWORKS, MEPSN-2019** (Operation, Control, Metering, Trading & Maintenance)" organized by Department of Electrical Engineering, VSSUT, Burla during 05th - 10th August, 2019.

P. K. Hota
Prof. P. K. Hota / Mrs. N Saha
Course Coordinator(s)

B. Mohanty
Dr. B. Mohanty
Head of Department

K. Prasad
TEQIP Coordinator

*ID: L201704C09A



ELECTRONICS & ICT ACADEMY INDIAN INSTITUTE OF TECHNOLOGY ROORKEE



CERTIFICATE

Faculty Development Programme on Deep Learning and Its Applications

This is to certify that **Sanjib Kumar Nayak** from **Veer Surendra Sai University of Technology, Burla** has participated in faculty development programme (online live instructor-led) on “**Deep Learning and Its Applications**” conducted by Electronics and ICT Academy, IIT Roorkee from 04 May – 13 May, 2020.

Dr. Sanjeev Manhas
Principal Investigator
E&ICT Academy, IIT Roorkee

Dr. Partha Pratim Roy
Local Coordinator
E&ICT Academy, IIT Roorkee

This certificate has a unique ID and can be verified from E&ICT Academy IIT Roorkee



TEQIP-3

Technical Education Quality Improvement Programme



CERTIFICATE OF PARTICIPATION

Is Hereby Awarded To

Dr./ Mr./Ms. Manila Mallik

(Veer Surendra Sai University of Technology, Burla, Sambalpur, Odisha)

For proactively participating in the Five Days Online Short-Term Training Program on


“Bio-Energy: Technologies & Transitions”


Jointly Organized by **National Institute of Technology, Kurukshetra** and **Government**

Engineering College, Bikaner from **13 - 17 May, 2020** under TEQIP-III:

Mentoring/Twinning System


(Dr. Ravi Kumar)
Coordinator
GEC Bikaner


(Dr. Rajneesh)
Coordinator
NIT Kurukshetra


(Dr. O. P. Jakhar)
Convener | TEQIP-III Coordinator
GEC Bikaner


(Prof. Sathans)
Convener | TEQIP-III Coordinator
NIT Kurukshetra

Online Short-Term Training Program on “Bio-Energy: Technologies & Transitions” sponsored by **TEQIP-III**

Jointly organized by: Department of Mechanical Engineering, Engineering College Bikaner and NIT Kurukshetra

तकनीकी शिक्षा गुणवत्ता सुधार कार्यक्रम
Technical Education Quality Improvement Programme



भारतीय प्रौद्योगिकी संस्थान रुड़की
Indian Institute of Technology Roorkee



This is to certify that *Renuprava Dalai* from
..... *VSSUT Burla* has
successfully completed the MHRD sponsored TEQIP assisted course on “Sustainable Energy
Technologies: Synthesis of Alternative Fuels, Characterization, and Molecular Simulations”
from 7th to 11th December, 2020 organized by the Department of Chemistry and Department of
Mechanical and Industrial Engineering, IIT Roorkee


Course Coordinator

An. Vr. Das.
Course Coordinator


TEQIP Coordinator





TEQIP Online Certification

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



This certificate is awarded to

Mr. Gautam Behera

VSS University of Technology, Burla, Odisha

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(April 6th to April 22nd, 2020)

Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III

Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay

Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by
Indian Institute of
Technology Bombay





OPJU

UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT

OP JINDAL UNIVERSITY

OP Jindal Knowledge Park, Punjipathra, Raigarh - 496109 [C.G.]

4th International Conference On Advances In Steel, Power And Construction Technology (NOVEMBER 21-22, 2019)

IN ASSOCIATION WITH



ASM
INTERNATIONAL



TMS
The Minerals, Metals & Materials Society



IIM
Manufacturing
Materials Engineering



SPONSORED BY

Certificate

This certificate is awarded to Dr./Mr./Ms./Mrs. Gautam Behera
of V.S.S.V.T Buxa

in appreciation of his/her participation in the "4th International Conference on Advances in Steel, Power and Construction Technology" Organized by OP Jindal University, Raigarh (C.G.), INDIA during November 21-22, 2019.

He/She chaired one of the technical session/delivered plenary talk during the conference/participated in conference/presented a research paper entitled Influence of

TiO₂ Particles On FSW of 7075 Al Alloy
Awarded as Best Paper for the session.

Divyanshu

Convener

[Signature]

Chairman



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY ODISHA

BURLA, SAMBALPUR-768018, ODISHA, INDIA

NAAC Sponsored Two Day Workshop on

Role of Revised Accreditation Framework for Enhancing the
Quality and Innovation in Education (RRAFEQIE)-2020

22nd to 23rd February, 2020

Certificate

Dr. Manila Mallik

This is to certify that Mr./Mrs./ Prof./Dr.
of
VSSUT, Burla

has attended the NAAC Sponsored Two Day Workshop on Role of Revised Accreditation
Framework for Enhancing the Quality and Innovation in Education (RRAFEQIE)-2020 organized
by Internal Quality Assurance Cell (IQAC), VSSUT, Burla during 22nd to 23rd February, 2020.


Convenor


Director IQAC


Vice-Chancellor



HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



IITBX

Infinite Learning

CDEEP

Subhadra Sahoo

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/ee379c3ea2d74f66b9d92e2f0f6a2c84/Certificate.pdf>

Govt. College of Engineering Kalahandi, Bhawanipatna

(A Constituent College of BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA)



CERTIFICATE

This is to certify that Prof./Dr. LINGRAJ DORA of VSSUT, BURLA has successfully completed the one week Faculty Development Programme on Moodle Learning Management System organized by Government College of Engineering Kalahandi in association with Spoken Tutorial Project, IIT Bombay from 25th May to 30th May 2020.



Kamakhya Prasad Nayak

Co-ordinator

[Signature]

Convener

[Signature]

Principal

Certificate ID:GCEK-FDP-2020-MOODLE-018

NPIU
National Project
Implementation Unit

TEQIP-III SPONSORED ONLINE FACULTY DEVELOPMENT PROGRAMME



ON

RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION WIRELESS ACCESS NETWORKS

(RASWAN-2020)

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Mrs./Dr. Sanjib Kumar Nayak of VSSUT, BURLA successfully completed a two-weeks Faculty Development Programme on “RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION WIRELESS ACCESS NETWORKS (RASWAN-2020)” organized by the Department of Electronics & Telecommunication Engineering, I.G.I.T., Sarang from 11th – 24th June 2020.

Mr. Kodanda Dhar Sa
FDP Co-ordinator

Mr. Paresh Kumar Pasayat
FDP Co-ordinator

Dr. Urmila Bhanja
H.O.D
Electronics & Telecomm. Engg.

Dr. Rabindra Behera
TEQIP-III Co-ordinator

Dr. Satyabrata Mohanta
Director
I.G.I.T., Sarang

NPIU
National Project
Implementation Unit

TEQIP-III SPONSORED ONLINE FACULTY DEVELOPMENT PROGRAMME



ON

**RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION
WIRELESS ACCESS NETWORKS**

(RASWAN-2020)

CERTIFICATE OF PARTICIPATION

This is to certify that **Mr./Ms./Mrs./Dr. Lingraj Dora** of **VSSUT, Burla** successfully completed a two-weeks Faculty Development Programme on “**RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION WIRELESS ACCESS NETWORKS (RASWAN-2020)**” organized by the Department of Electronics & Telecommunication Engineering, I.G.I.T., Sarang from 11th – 24th June 2020.

Mr. Kodanda Dhar Sa
FDP Co-ordinator

Mr. Paresh Kumar Pasayat
FDP Co-ordinator

Dr. Urmila Bhanja
H.O.D
Electronics & Telecomm. Engg.

Dr. Rabindra Behera
TEQIP-III Co-ordinator

Dr. Satyabrata Mohanta
Director
I.G.I.T., Sarang

HONOUR CODE
CERTIFICATE
SWC1-3644



Certificate of Energy Literacy

This is to certify that

Dr. Manila Mallik

has successfully completed a short course on "*Learn to Design your own Solar Home System*".

The recipient got basic understanding of energy, power, electricity bill, and solar systems. The recipient can estimate the electricity needs of a home and design a solar system for the same. The certificate has been awarded as a part of *Energy Literacy Drive* of the Energy Swaraj Foundation.



29 May 2020

Date

Swati Kalwar
Chief Executive Officer



The authenticity of this certificate can be validated at <https://energyswaraj.org/honor.php>

This certificate is awarded to

Mr. Bibhuti Prasad Sahoo

VSS University of Technology, Burla, Odisha

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(February 14th to March 6th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay

POWERED BY





DUMKA ENGINEERING COLLEGE

(ESTD. by Govt. of JHARKHAND & run by TECHNO INDIA under PPP)



Certificate of Participation

This is to certify that

Dr. Manila Mallik

has participated in the National Webinar on “**ACTIVE LEARNING METHODOLOGY**”(NWALM)

by **Prof. S. K. Das Mandal** on May 22- May 24, 2020,

Organized by Department of Electronics & Communication Engineering,

Dumka Engineering College,

Jharkhand.

Date of Certification
26-May-2020

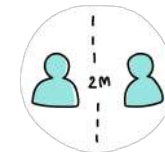
Certificate ID
DEC/ECE/2020/HS8PLO-CE000347

Indira Ghosh Dastidar
Ms. Indira Ghosh Dastidar
(Co-ordinator, NWALM)

Souvik De
Mr. Souvik De
(Joint Coordinator, NWALM)

Sujit Khamaru
Mr. Sujit Khamaru
(Coordinator, TEQIP-III, DEC)

Dr. Palash Pal
Dr. Palash Pal
(Principal, Dumka Engineering College)



Webinar series on “Role of Intellectual Property in Creating Innovation Ecosystem for Growth” (6th-10th June 2020)

CERTIFICATE OF PARTICIPATION



This is to certify that **DR. MANILA MALLIK, ASSISTANT PROFESSOR, VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA, SAMBALPUR, ODISHA** has attended the Webinar series on Role of Intellectual Property in Creating Innovation Ecosystem for Growth organized by School of Physics, Gangadhar Meher University, Amruta Vihar, Sambalpur, Odisha, India-768004 during 6-10 June 2020.

Susanta Kumar Das

Convenor

A. Chakraverty

Co-Convenor



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY ODISHA
BURLA, SAMBALPUR-768018, ODISHA, INDIA



NAAC Sponsored Two Day Workshop on
Role of Revised Accreditation Framework for Enhancing the
Quality and Innovation in Education (RRAFEQIE)-2020


22nd to 23rd February, 2020

Certificate

Mr. Prasanta Kumar Parida

This is to certify that Mr./Mrs./ Prof./Dr.
of **VSSUT, Burla**
has attended the NAAC Sponsored Two Day Workshop on Role of Revised Accreditation
Framework for Enhancing the Quality and Innovation in Education (RRAFEQIE)-2020 organized
by Internal Quality Assurance Cell (IQAC), VSSUT, Burla during 22nd to 23rd February, 2020.


Convenor


Director IQAC


Vice-Chancellor

This certificate is awarded to

Prasanta Kumar Parida
VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay



This certificate is awarded to

Lingraj Dora

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay

POWERED BY



This certificate is awarded to

Sanjib Kumar Nayak

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay



Govt. College of Engineering Kalahandi, Bhawanipatna

(A Constituent College of BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA)



CERTIFICATE

This is to certify that Prof./Dr. BIBHUTI PRASAD SAHOO of VSSUT has successfully completed the one week Faculty Development Programme on Moodle Learning Management System organized by Government College of Engineering Kalahandi in association with Spoken Tutorial Project, IIT Bombay from 25th May to 30th May 2020.



Kamakhya Prasad Nayak

Co-ordinator

[Signature]

Convener

[Signature]

Principal

Certificate ID:GCEK-FDP-2020-MOODLE-058



Aditya Institute of Technology & Management, Tekkali

An Autonomous Institution Affiliated to JNTUK, Kakinada
Accredited by NBA; NAAC A+ Grade; Recognized by UGC under 2(f) & 12(B)
K.Kotturu, Tekkali-532201, Srikakulam, Andhra Pradesh-India
<https://www.adityatekkali.edu.in/>

Certificate

One week Faculty Development Program on

“Advanced Manufacturing Enterprise in Digital Era”

This is to certify that

Dr. MANILA MALLIK

ASSISTANT PROFESSOR

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

*has participated in One week Online Faculty Development Program on
“Advanced Manufacturing Enterprise in Digital Era” Organized by
Department of Mechanical Engineering from 1st to 5th June 2020*

Dr. D. Sreeramulu
Convenor

Dr. C. J. Rao
HoD-ME

Dr. A. S. Srinivasa Rao
Principal

Prof. V. V. Nageswara Rao
Director



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA
CENTRE FOR DISTANCE AND CONTINUING EDUCATION

CERTIFICATE OF PARTICIPATION

TEQIP - III
Technical Education Quality Improvement Programme

This is to certify that
Dr. MANILA MALLIK
VSSUT, BURLA

has participated in
TEQIP III Sponsored One Week Faculty Development Programme (FDP)
on

Design and Development of Materials for Technological Applications (D-MTA)
Organized by Department of Physics
from 21st October to 26th October, 2019

Dr. A.K. Pattanaik

Dr. S. K. Patri

Dr. M. P. K. Sahoo

Coordinators, D-MTA 2019

Prof. U. R. Jena
Dean CDCE & Head Physics

This certificate is awarded to

Manila Mallik

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay



vmedulife[®]

CERTIFICATE

This is to certify that

DR. MANILA MALLIK

from

**VEER SURENDRA SAI UNIVERSITY OF
TECHNOLOGY, BURLA, SAMBALPUR,
ODISHA-768018**

has attended webinar for
faculty development program on

"Outcome Based Education Software"

organised by vmedulife software services
on 14th May, 2020.


Director

vmedulife software services



Outcome Based Education Software

Course Outcome and
Program Outcome
Attainment

www.vmedulife.com



TEACHING LEARNING CENTRE

Indian Institute of Technology Madras

This is to certify that

Bibhuti Prasad Sahoo

Veer Surendra Sai University of Technology, Burla

has participated in the

TEQIP III Faculty Development Programme

on

Robotics and Automation

Organised by the *Department of Engineering Design, IIT Madras*

from 17th to 28th February 2020

Prof. Asokan Thondiyath
Coordinator

Prof. S. Karmalkar
Head, Teaching Learning Centre

This certificate is awarded to

Dr. Sasmita Acharya

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay





GOVERNMENT COLLEGE OF ENGINEERING KARAD



&
RAJKIYA ENGINEERING COLLEGE AZAMGARH

Jointly Organized

One Week Online Faculty Development Program on

“Machine Learning and Deep Learning Applications in Engineering & Science”

(16th May 2020 to 20th May 2020)

under

Technical Education Quality Improvement Program - III

CERTIFICATE OF PARTICIPATION

This is to certify that

Sasmita Acharya

of

VSSUT, Burla

Registration Number **2304**

has Participated in One Week TEQIP - Online Faculty Development Program on “Machine Learning and Deep Learning Applications in Engineering and Science (MLDLAES - 2020)” from 16th May - 20th May 2020 (Sponsored by Technical Education Quality Improvement Program -III) Organized by Civil Engineering Department, Government College of Engineering, Karad.

Prof. Amarsinh B. Landage

Coordinator

Prof. B. A. Konnur

Convener &
TEQIP III Coordinator

Prof. S. S. Valunekar

Chairman &
Head of Department

Prof. A. T. Pise

Principal
GCE Karad

This certificate is awarded to

Dr. Sasmita Acharya

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay





GOVERNMENT COLLEGE OF ENGINEERING KARAD



**&
RAJKIYA ENGINEERING COLLEGE AZAMGARH**

Jointly Organized

One Week Online Faculty Development Program on

“Machine Learning and Deep Learning Applications in Engineering & Science”

(16th May 2020 to 20th May 2020)

under

Technical Education Quality Improvement Program - III

CERTIFICATE OF PARTICIPATION

This is to certify that

Sasmita Acharya

of

VSSUT, Burla

Registration Number **2304**

has Participated in One Week TEQIP - Online Faculty Development Program on “Machine Learning and Deep Learning Applications in Engineering and Science (MLDLAES - 2020)” from 16th May - 20th May 2020 (Sponsored by Technical Education Quality Improvement Program -III) Organized by Civil Engineering Department, Government College of Engineering, Karad.

Prof. Amarsinh B. Landage

Coordinator

Prof. B. A. Konnur

Convener &
TEQIP III Coordinator

Prof. S. S. Valunekar

Chairman &
Head of Department

Prof. A. T. Pise

Principal
GCE Karad

This certificate is awarded to

Dr. Sasmita Acharya

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

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Technology Bombay





Dr. D. Y. Patil Educational Enterprises Charitable Trust's

Dr. D. Y. PATIL SCHOOL OF ENGINEERING & TECHNOLOGY

Dr. D. Y. Patil Knowledge City, Charholi (Bk.), via. Lohgaon,
Pune - 412 105, Maharashtra.

Certificate of Appreciation

This is to certify that **SANTI BEHERA** of **Veer Surendra Said University**
of technology, Burla has
successfully completed online **Faculty Awareness Programme on NBA** on
26-5-2020, with a passing score of **60%** organized by Department of Electronics &
Telecommunication Engineering, Dr. D. Y. Patil School of Engineering & Technology , Pune.

Certificate ID Z7QF9M-CE000864

Prof. Sagar D. Dhawale
Quiz Co-ordinator

Prof. Sharan Inamdar
HoD (E&TC)

Dr. Ashok Kasnale
Principal

This certificate is awarded to

Lipsamayee Mishra

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay





SWAYAM ARPIT ONLINE COURSE CERTIFICATION

This Certificate is awarded to

BIRENDRA KUMAR BARIK

for successfully completing the ARPIT Course for

Career Advancement Scheme(CAS) promotion

Pedagogical Innovations And Research Methodology

with a "A" Grade in the proctored examination held on 16.02.2020

Guru Jambheshwar university of Science & Technology Hisar, Haryana

Authorized Signatory of Institution (Course Coordinator)

Guru Jambheshwar university of Science & Technology Hisar, Haryana

Authorized Signatory of AICTE

Date of Issue : 30/06/2020

www.swayam.gov.in



SWAYAM ARPIT ONLINE COURSE CERTIFICATION

This Certificate is awarded to

BIRENDRA KUMAR BARIK

for successfully completing the ARPIT Course for

Career Advancement Scheme(CAS) promotion

Refresher Course on Teacher and Teaching in Higher Education


with a "B" Grade in the proctored examination held on 16.02.2020

Savitribai Phule Pune University

Authorized Signatory of Institution (Course Coordinator)
Savitribai Phule Pune University

Authorized Signatory of AICTE

HONOUR CODE
CERTIFICATE
Issued On: 2019-11-18

 STUDENT SOLAR
AMBASSADORS

CERTIFICATE of LEARNING

This certificate is awarded to

LIPSAMAYEE MISHRA

for learning to make his/her own solar study lamp in the Student Solar Ambassadors Workshop organized globally on 2nd October 2019 to commemorate the 150th Birth Anniversary of Mahatma Gandhi.



CHETAN SINGH SOLANKI
Professor, Dept of Energy Science and Engineering
IIT Bombay

SUPPORTED BY



The workshop enabled realization of participants towards the need to go against climate change. The presence of solar energy is felt daily, health and preparing various technical skills to the participants including identification of the solar lamp components, learning the use of a multi-meter, testing of solar

The Honour Code is embedded in https://gsa.iitb.ac.in/certificates.php?code=140451_506



Organised by:
VEER SURENDRA SAI
UNIVERSITY OF TECHNOLOGY BURLA, ODISHA
SIDDI VIHAR, BURLA, ODISHA, INDIA



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ANISHA EKKA
Fit VSSUT Plogging
FIT INDIA PLOGGING

02nd Oct 2019

bmb.
Co-ordinator

This is digitally generated certificate, based on the information provided by the organiser/participant of the event.

www.fitindia.gov.in

In collaboration with





INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
WITH
GLOBAL INITIATIVE OF ACADEMIC NETWORKS
PRESENTS THIS

Certificate of Participation

to

Birendra Kumar Barik

*for his active and invaluable participation during the conduct of six-day course on
"Microstructural Evolution During Friction Stir Processing"
held from September 16th to September 21st, 2019
at Indian Institute of Technology Gandhinagar,
Palaj, Gujarat - India 382355*

gian
GLOBAL INITIATIVE OF ACADEMIC NETWORKS

DR. AMIT ARORA

DR. AMIT ARORA
COURSE COORDINATOR
IIT GANDHINAGAR, INIDA

DR. RAJIV MISHRA

DR. RAJIV MISHRA
COURSE INSTRUCTOR
UNIVERSITY OF NORTH TEXAS, USA



Photografia.3

WORKSHOP on PHOTOGRAPHY, PHOTOJOURNALISM AND VISUAL STORYTELLING

भारतीय जन संचार संस्थान, ढेंकानाल
Indian Institute of Mass Communication



This is to certify that

Amit Chatterjee

of

V.S.S. University of Technology, Burla

participated in "Photografia.3" the
photojournalism and visual storytelling workshop
from 22 to 25 September 2019.

Tabeenah
Dr. Tabeenah Anjum Qureshi

Dr. Mrinal Chatterjee
Dr. Mrinal Chatterjee
Professor and Regional Director

Himarshu Vyas
Himarshu Vyas

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY ODISHA
BURLA, SAMBALPUR-768018, ODISHA, INDIA



**NAAC Sponsored Two Day Workshop on
Role of Revised Accreditation Framework for Enhancing the
Quality and Innovation in Education (RRAFEQIE)-2020**

22nd to 23rd February, 2020

Certificate

This is to certify that Mr/Mrs/ Prof./Dr. *Ar. Amit Chatterjee*
of *VSSUT, Burla*
has attended the **NAAC Sponsored Two Day Workshop on Role of Revised Accreditation
Framework for Enhancing the Quality and Innovation in Education (RRAFEQIE)-2020** organized
by Internal Quality Assurance Cell (IQAC), VSSUT, Burla during **22nd to 23rd February, 2020.**

Ar. S. K.
Convenor

ISM
Director, IQAC

Alankarini
Vice-Chancellor



Indian Academy of Sciences
Bengaluru



Indian National Science Academy
New Delhi



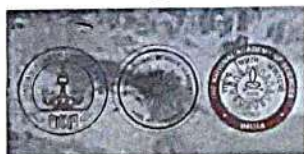
The National Academy of Sciences, India
Allahabad

SUMMER RESEARCH FELLOWSHIP PROGRAMME CERTIFICATE

This is to certify that Mr Birendra Kumar Barik worked on a project entitled "Elimination of exit-hole using friction stir plunging with consumable tool" during May - July 2018 as a Summer Research Fellow under the supervision of Dr Satish Vasu Kailas, Indian Institute of Science, Bengaluru. The Summer Research Fellowship Programme is jointly sponsored by IASc (Bengaluru), INSA (New Delhi) and NASI (Allahabad). During the period of this fellowship, he also attended the two-day Mid-Year Meeting of scientific lectures (29 - 30 June 2018) held at Infosys Development Center, Mysuru.

Place: Bengaluru

Date: 20-09-2018



M.R.N. Murthy

Chairman, Science Education Panel

This certificate is awarded to

Dinesh Kumar Mishra

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay



HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



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DINESH KUMAR MISHRA

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/9520cb5d49e14505ac30636413d1b38d/Certificate.pdf>

This certificate is awarded to

Ms. Anisha Ekka

VSS University of Technology, Burla, Odisha

for successfully completing the 2 week course on

Digital Transformation In Teaching Learning Process

(February 14th to March 6th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay



NPIU
National Project
Implementation Unit

TEQIP-III SPONSORED ONLINE FACULTY DEVELOPMENT PROGRAMME



ON

RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION WIRELESS ACCESS NETWORKS

(RASWAN-2020)

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Mrs./Dr. Sakambhari Mahapatra of VSSUT, BURLA successfully completed a two-weeks Faculty Development Programme on “RECENT ADVANCEMENT IN SIGNAL PROCESSING, MACHINE LEARNING AND NEXT GENERATION WIRELESS ACCESS NETWORKS (RASWAN-2020)” organized by the Department of Electronics & Telecommunication Engineering, I.G.I.T., Sarang from 11th – 24th June 2020.

Mr. Kodanda Dhar Sa
FDP Co-ordinator

Mr. Paresh Kumar Pasayat
FDP Co-ordinator

Dr. Urmila Bhanja
H.O.D
Electronics & Telecomm. Engg.

Dr. Rabindra Behera
TEQIP-III Co-ordinator

Dr. Satyabrata Mohanta
Director
I.G.I.T., Sarang



The State University
of New York

06/25/2020

SAMBEET KUMAR SAHU

has successfully completed

Advanced Manufacturing Process Analysis

an online non-credit course authorized by University at Buffalo and The State
University of New York and offered through Coursera

A handwritten signature in blue ink that reads "Rahul Rai".

Rahul Rai
Associate Professor
Mechanical and Aerospace Engineering

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/9LCDXV8FPXBP
Coursera has confirmed the identity of this individual and
their participation in the course.



Certificate ID: **VSSUT/AMDMC_81**



Department of Production Engineering
Veer Surendra Sai University of Technology, Burla



CERTIFICATE OF PARTICIPATION

This is to certify that

Anisha Ekka

from

Veer Surendra Sai University of Technology, Burla

has participated and successfully completed in the Short Term Training Programme on "**Advance of Materials Design, Machining and Characterization (AMDMC-2020)**" Organized by Department of Production Engineering, Veer Surendra Sai University of Technology, Burla during 21st to 26th November 2020 under the Sponsorship of AQIS scheme of AICTE, Government of India.

Dr. P. C. Jena
Programme Coordinator

Dr. K. Pal
Head of the Department

Prof. U.R. Jena
Dean, CDCE



Aditya Institute of Technology & Management, Tekkali

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K.Kotturu, Tekkali-532201, Srikakulam, Andhra Pradesh-India
<https://www.adityatekkali.edu.in/>

Certificate

One week Faculty Development Program on

“Advanced Manufacturing Enterprise in Digital Era”

This is to certify that
Mrs. SUNITA SETHY
ASSISTANT PROFESSOR
VSSUT, BURLA

*has participated in One week Online Faculty Development Program on
“Advanced Manufacturing Enterprise in Digital Era” Organized by
Department of Mechanical Engineering from 1st to 5th June 2020*

Dr. D. Sreeramulu
Convenor

Dr. C. J. Rao
HoD-ME

Dr. A. S. Srinivasa Rao
Principal

Prof. V. V. Nageswara Rao
Director



मौलाना आज़ाद
राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल (म. प्र.) भारत
Maulana Azad
National Institute of Technology, Bhopal (M. P.) India

Workshop
on

"Scientific and Technological Writing Skills (STWS)"

(Writing of Research Proposals, Theses, Reports, Research Papers, Drafting and filing of Patents)

CERTIFICATE

This is to certify that Dr./ Mr./ Ms. ✓ Anisha Ekka has participated in the 5 days workshop on **"Scientific and Technological Writing Skills" (Writing of Research Proposals, Theses, Reports, Research Papers, Drafting and filing of Patents)** held during 16 – 20th December, 2019 organised by Department of Materials and Metallurgical Engineering, MANIT Bhopal.


Dr. C. Sasikumar

Coordinator


Dr. Ramesh Kumar Nayak

Coordinator


Dr. K. R. Aharwal

HOD MME

SMART MANUFACTURING

CERTIFICATE

This certificate is presented to

Mr. Birendra Kumar Barik

*For attending the one day hands-on workshop on Smart Manufacturing
hosted by Indian Institute of Technology Indore, India on December 11, 2019*

under

Industry Academia Consortium for Smart Manufacturing

IndAC-SM



Dr. Bhupesh K. Lad
IIT Indore



Prof. Makarand S. Kulkarni
IIT Bombay



Dr. Ajith Parlikad
University of Cambridge



HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



IITBX

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Lipsamayee Mishra

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/0797edf24c0e4d8dace423b3edde2d53/Certificate.pdf>



Department of Electronics Engineering

Zakir Husain College of Engineering and Technology

Aligarh Muslim University, Aligarh



spoken-tutorial

Powered by
Ministry of Human Resources and
Development, Government of India.

REF.: AMU/ELED/FDP/COVID/2020/OP009

PARTICIPANT ID: BIRENBARIK_PE@VSSUT.AC.IN

Certificate of Participation

This certificate is awarded to

Mr. Birendra Kumar Barik

for participation in **One Week Online Faculty Development Program on “MOODLE: Learning Management System”** organized by Department of Electronics Engineering, AMU, Aligarh in association with Spoken Tutorial Project, IIT Bombay from 27th May to 31st May 2020.

PROF. PERVEZ MUSTAJAB
DEAN, F/O ENGINEERING AND TECHNOLOGY,
ALIGARH MUSLIM UNIVERSITY

PROF. OMAR FAROOQ
CHAIRMAN, D/O ELECTRONICS ENGINEERING,
ALIGARH MUSLIM UNIVERSITY

DR. MOHD WAJID
COORDINATOR,
FACULTY DEVELOPMENT PROGRAM

UCDAVIS

Jul 9, 2019

Birendra Kumar Barik

has successfully completed

**Materials Science: 10 Things Every Engineer
Should Know**

an online non-credit course authorized by University of California, Davis and offered
through Coursera



James Shackelford
Distinguished Professor Emeritus
Department of Chemical Engineering and Materials Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/FFUTVDAQK5CN
Coursera has confirmed the identity of this individual and their
participation in the course.

This certificate is awarded to

Sambeet Kumar Sahu

VSS University of Technology, Burla

for successfully completing the 2 week course on

**Digital Transformation In
Teaching Learning Process**

(March 16th to March 30th, 2020)



Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III



Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay



Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay



Course offered by

Indian Institute of
Technology Bombay





Organised by:
**VEER SURENDRA SAI
UNIVERSITY OF TECHNOLOGY BURLA, ODISHA**
SIDDHI VIHAR, BURLA, ODISHA, INDIA



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FIT INDIA PLOGGING

02nd Oct 2019

bmb.
Co-ordinator

In collaboration with



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Organised by:
**VEER SURENDRA SAI
 UNIVERSITY OF TECHNOLOGY BURLA, ODISHA**
 SIDDHI VIHAR, BURLA, ODISHA, INDIA



I AM
A FINISHER
 PREMANANDA EKKA
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02nd Oct 2019

[Signature]
 Co-ordinator

In collaboration with



This is digitally generated certificate, based on the information provided by the organiser/participant of the event.



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HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



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anisha ekka

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/1040e48302474dde84e778b4d903ca2e/Certificate.pdf>



INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI

(A State University Established under Haryana Act No. 29 of 2013)

Ref No: IGU/FDP/2020/209

FACULTY DEVELOPMENT PROGRAMME ON MOOCS AND MOODLE BASED LEARNING MANAGEMENT SYSTEM (June 15-22, 2020)

CERTIFICATE OF PARTICIPATION

This is to certify that **SAMBEET KUMAR SAHU**, Assistant Professor of Veer Surendra Sai University of Technology, Burla has participated in Faculty Development Programme on “MOOCs and MOODLE Based Learning Management System” from June 15-22, 2020 through online mode organized by Indira Gandhi University, Meerpur, Rewari.

Dr. Ishwar Sharma
FDP Convener

Prof. Tej Singh
FDP Director

Date: 22 June, 2020

HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



IITBX

Infinite Learning

CDEEP

Sunita Sethy

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/c4cd8ea04a65401f949022abe33b2761/Certificate.pdf>



Adaptive Three-phase Estimation of Sequence Components and Frequency Using H_{∞} Filter Based on Sparse Model

Publisher: SGEPRI

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Umamani Subudhi ; Harish Kumar Sahoo ; Sanjeev Kumar Mishra All Authors ...

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- I. Introduction
- II. Filtering Algorithm of Sparse H_{∞}
- III. Model of Symmetrical Component Estimation
- IV. Frequency Estimation Model
- V. Simulation Results and Discussions

Show Full Outline ▾

- Authors
- Figures
- References
- Citations
- Keywords

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Abstract:

The estimation of sequence or symmetrical components and frequency in three-phase unbalanced power system is of great importance for protection and relay. This paper proposes a new H_{∞} filter based on sparse model to track the sequence components and the frequency of three-phase unbalanced power systems. The inclusion of sparsity improves the error convergence behavior of estimation model and hence short-duration non-stationary PQ events can easily be tracked in the time domain. The proposed model is developed using l_1 norm penalty in the cost function of H_{∞} filter, which is quite suitable for estimation across all the three phases of an unbalanced system. This model uses real state space modeling across three phases to estimate amplitude and phase parameters of sequence components. However, frequency estimation uses complex state space modeling and Clarke transformation generates a complex measurement signal from the unbalanced three-phase voltages. The state vector used for frequency estimation consists of two state variables. The proposed sparse model is tested using distorted three-phase signals from IEEE-1159-PQE database and the data generated from experimental laboratory setup. The analysis of absolute and mean square error is presented to validate the performance of the proposed model.

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 Contents

SECTION I.

Introduction



The steady-state operation condition of the three-phase balanced power system is disrupted due to several reasons such as single-phase loading, unbalanced impedance of transmission lines and transformers, incomplete transposition of lines, lightning, line breaks, etc. Unbalance is considered as one of the PQ issues which can be measured through sequence components [1]. Due to the unbalanced situation of voltage across the phases, the system performance degrades and shortens the life of the equipment used in industry. Similarly, any deviation of system frequency from the normal value is a clear indicator of unbalanced condition between load and generation, which may lead to the grid failure by inadequate load shedding.

Therefore, the detection and subsequent mitigation of faults by designing protective equipment are crucial for a healthy power grid. To protect the grid, sequence components across all the phases and system frequency have to be estimated correctly. The amplitude and phase information of all the three phases in an unbalanced system can be extracted by analyzing the sequence components in terms of zero, positive, and negative sequence components. Adaptive filters are efficient to estimate the sequence components and frequency by modeling the three-phase voltage and current equations in a parametric form.

Several techniques have been proposed to estimate the symmetrical components and frequency from three-phase voltage and current signals. Discrete Fourier transform (DFT) is a popular nonparametric method used for frequency estimation, but this method suffers from inaccuracies due to the presence of system noise, inter- and intra-harmonics and spectral leakage [2], [3]. However, the errors due to the effect of spectral leakage and picket-fence are mitigated by modulated sliding discrete Fourier transform (msDFT) which is proposed for the measurement of harmonic and sequence components [4]. Reference [5] proposes an adaptive method using DFT and online algorithm, which is based on converting signal into phasor for symmetrical component estimation. Reference [6] also proposes a DFT-based technique for frequency estimation, which has good resistance to harmonics.

Artificial intelligence and soft computing techniques such as neural network, fuzzy logic, and genetic algorithm are quite popular for tracking PQ disturbances [7], [8]. These methods can track the signal parameters accurately with longer tracking time and slower convergence. Adaptive linear combiner structure is a single-layer model frequently used for harmonic and frequency estimation for single-phase power system [9]. However, the model based on multi-output can be used to track the symmetrical components of a three-phase system. Least mean square (LMS) is used for the update of weight vector, which requires a proper choice of step size and the overall convergence rate is quite slow [10].

Compared to Kalman filter, extended Kalman filter (EKF) is an effective approach to estimate nonstationary PQ disturbances with increased noise level. Although EKF shows good estimation performance, it does not have stable convergence in the case of abrupt frequency change. Reference [11] proposes unscented Kalman filter (UKF) which is a derivative-free filter for the estimation of frequency in balanced and unbalanced power systems with the reduced complexity of computation [11]. However, the estimation accuracy of UKF is affected by the factors such as the divergence of estimation error due to some poorly-chosen initial conditions and the nature of noise. To overcome the above limitations, H_{∞} filter is proposed, which is a robust form of Kalman filter to estimate the parameters of the sinusoid corrupted by white Gaussian noise [12], [13].

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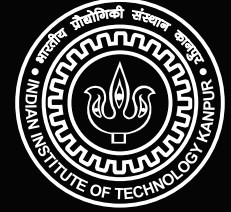
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