

# INTERNSHIP CERTIFICATE

This is to certify that **PRINCE KONWAR**  
from  
**TEZPUR UNIVERSITY**  
has completed the Online Internship Program on  
**DESIGN AND VERIFICATION USING VERILOG**  
from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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

# Exposys Data Labs



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Sukrit Jyoti Baruah** has completed internship programme on “**Software Developer**” from 12.07.2020 to 28.07.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

# CETPA INFOTECH PRIVATE LIMITED

(An ISO 9001:2015 Certified Company)

## *Certificate of Training*

This is to certify that

**Puja Singh**

*has successfully completed Six Weeks Summer Training on*

*"IOT"*

*from 29 July to 8 September, 2020*

*at CETPA INFOTECH PVT. LTD., Noida.*



**Vikas Kalra**

Director

**CETPA<sup>®</sup>**

*Because Knowledge Matters*

[www.cetpainfotech.com](http://www.cetpainfotech.com)



**Anil Kumar Singh**

Director-Training

 KaaShiv



 Microsoft®  
Most Valuable  
Professional

2008 - 2018



# Certificate

OF COMPLETION

**SAUGAT DEB**

TEZPUR UNIVERSITY

Is presented with this certificate on successful completion of

**VLSI Internship**

Under the guidelines and norms of the program structure  
conducted during for

**1 Month (01 January 2021 - 31 January 2021)**

Attendee met all certification requirements and Successful  
performance on the required competence examination.

Certificate ID: **KA-TMgdw**

Grade: **A**



Venkatesan Prabu.J  
Microsoft MVP

The Certificate ID Can be Verified at [www.kaashiv.com/verify-now](http://www.kaashiv.com/verify-now)



# INTERNSHIP CERTIFICATE

This is to certify that **RAUNAK KUMAR JHA**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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



# INTERNSHIP CERTIFICATE

This is to certify that **NISHIRAJ NATH**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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



# INTERNSHIP CERTIFICATE

This is to certify that **MANASH PROTIM BURAGOHAIN**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**CUSTOM IC DESIGN: CMOS STANDARD CELL CIRCUIT DESIGN, SIMULATION AND LAYOUT**

from 8<sup>th</sup> July to 4<sup>th</sup> September 2020.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



**Certificate Number: 2009010181**

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

# CETPA INFOTECH PRIVATE LIMITED

(An ISO 9001:2015 Certified Company)

## *Certificate of Training*

This is to certify that

**Chiranjib Kashyap**

*has successfully completed Six Weeks Summer Training on*

*"IOT"*

*from 29 July to 8 September, 2020*

*at CETPA INFOTECH PVT. LTD., Noida.*



**Vikas Kalra**

Director

**CETPA<sup>®</sup>**

*Because Knowledge Matters*

[www.cetpainfotech.com](http://www.cetpainfotech.com)



**Anil Kumar Singh**

Director-Training



# INTERNSHIP CERTIFICATE

This is to certify that **ACHYUT MORANG**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



Handwritten signature of Mr. Puneet Kumar Mishra.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



Handwritten signature of Mr. Damodara M S.

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

## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. MEHBUB AHMED MAZUMDER** has completed internship programme on “**Web Developer**” from 26.08.2020 to 15.09.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.



**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com



# INTERNSHIP CERTIFICATE

This is to certify that **AFREEN LASKAR**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**CUSTOM IC DESIGN: CMOS STANDARD CELL CIRCUIT DESIGN, SIMULATION AND LAYOUT**

from 8<sup>th</sup> July to 4<sup>th</sup> September 2020.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



**Certificate Number: 2009010154**

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



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

बोंगाइगाँव रिफाइनरी

जिला : चिरांग-783385, असम

Indian Oil Corporation Limited

Bongaigaon Refinery

District : Chirang-783385, Assam

Phone : 03664-241030, 253001

Fax : 03664-241363

Website : [www.iocl.com](http://www.iocl.com) E-mail : [bgr@indianoil.in](mailto:bgr@indianoil.in)



रिफाइनरीज़ प्रभाग  
Refineries Division

Ref.No. BGR: HR: L&D: 5/S-101

Dated: 27.07.2020

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

This is to certify that **Miss Vandana Goyari**, a 6<sup>th</sup> semester BTech (ECE) student of Tezpur University has undergone Internship Training conducted through web based virtual platform by Indian Oil Corporation Ltd, Bongaigaon Refinery, Dhaligaon, Dist: Chirang (Assam) during the period 15<sup>th</sup> June, 2020 - 15<sup>th</sup> July, 2020.

During this period, Miss Goyari was given exposure to various functions of the Refinery with special emphasis on different activities of Electrical, Instrumentation and Information Services of Bongaigaon Refinery including Industrial Safety.

During the virtual sessions, Miss Goyari took keen interest in meaningful interaction with faculties apart from demonstrating her politeness and punctuality.

She has submitted a Project/ training report upon successful completion of her training.

Bongaigaon Refinery wishes Miss Goyari all success in her future endeavours.

For and on behalf of Bongaigaon Refinery

  
एस एस एस इस्लाम / SMS Islam  
उप महाप्रबंधक (एल एंड डी) / Dy General Manager (L&D)  
बोंगाइगाँव रिफाइनरी, इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
Bongaigaon Refinery, Indian Oil Corporation Limited  
डाकघर : धालीगाँव, P.O. Dhaligaon-783385  
जिला : चिरांग (असम) Dist. Chirang (Assam)

(SMS Islam)  
DGM- L&D



# INTERNSHIP CERTIFICATE

This is to certify that **PRIYA DEBNATH**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**CUSTOM IC DESIGN: CMOS STANDARD CELL CIRCUIT DESIGN, SIMULATION AND LAYOUT**

from 8<sup>th</sup> July to 4<sup>th</sup> September 2020.

A handwritten signature in black ink, appearing to read "P.K. Mishra", written over a horizontal line.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



**Certificate Number: 2009010115**

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

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



# INTERNSHIP CERTIFICATE

This is to certify that **ASSISA VYAS**

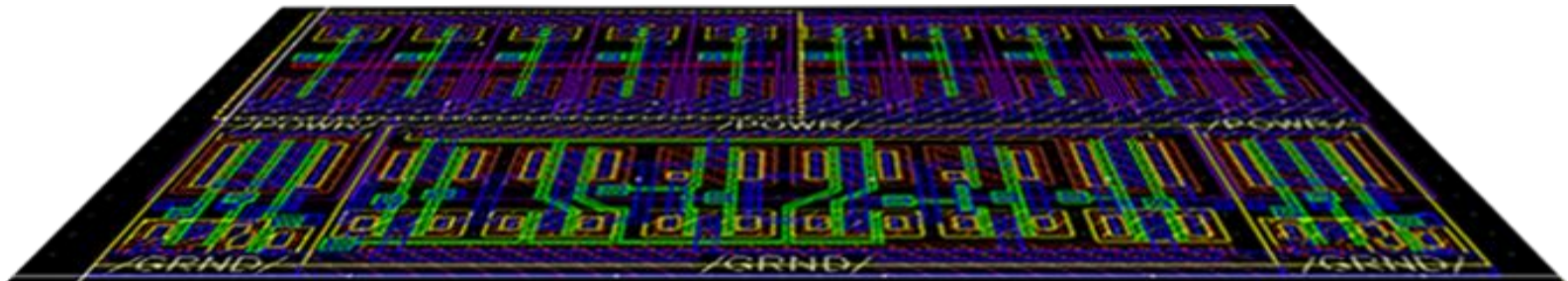
from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

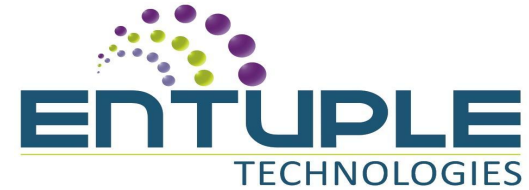
**CMOS STANDARD CELL CIRCUIT DESIGN, SIMULATION AND LAYOUT**

from 8<sup>th</sup> July to 4<sup>th</sup> September 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council

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



# INTERNSHIP CERTIFICATE

This is to certify that **SHARMISTHA DAS**

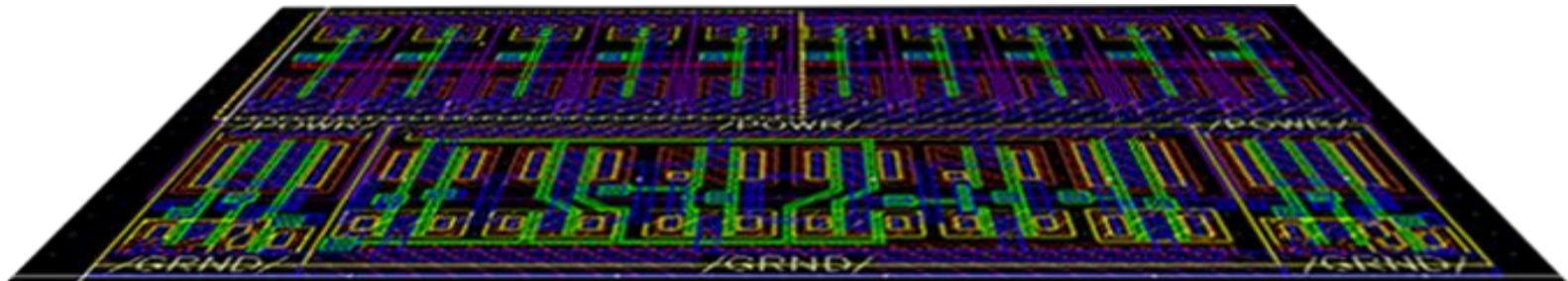
from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**CMOS STANDARD CELL CIRCUIT DESIGN, SIMULATION AND LAYOUT**

from 8<sup>th</sup> July to 4<sup>th</sup> September 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council

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

# Exposys Data Labs



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Manish Kumar purbey** has completed internship programme on “**Web Developer**” from 01.09.2020 to 26.09.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

बोंगाइगाँव रिफाइनरी

जिला : चिरांग-783385, असम

Indian Oil Corporation Limited

Bongaigaon Refinery

District : Chirang-783385, Assam

Phone : 03664-241030, 253001

Fax : 03664-241363

Website : [www.iocl.com](http://www.iocl.com) E-mail : [bgr@indianoil.in](mailto:bgr@indianoil.in)



रिफाइनरीज़ प्रभाग  
Refineries Division

Ref.No. BGR: HR: L&D: 5/S-100

Dated: 27.07.2020

**TO WHOM IT MAY CONCERN**

This is to certify that **Shri Tejan Hazarika**, a 6<sup>th</sup> semester BTech (ECE) student of Tezpur University has undergone Internship Training conducted through web based virtual platform by Indian Oil Corporation Ltd, Bongaigaon Refinery, Dhaligaon, Dist: Chirang (Assam) during the period 15<sup>th</sup> June, 2020 - 15<sup>th</sup> July, 2020.

During this period, Shri Hazarika was given exposure to various functions of the Refinery with special emphasis on different activities of Electrical, Instrumentation and Information Services of Bongaigaon Refinery including Industrial Safety.

During the virtual sessions, Shri Hazarika took keen interest in meaningful interaction with faculties apart from demonstrating his politeness and punctuality.

He has submitted a Project/ training report upon successful completion of his training.

Bongaigaon Refinery wishes Shri Hazarika all success in his future endeavours.

For and on behalf of Bongaigaon Refinery

  
एस एस एस इस्लाम / SMS Islam  
उप महाप्रबंधक (एल एंड डी) / Dy General Manager (L&D)  
बोंगाइगाँव रिफाइनरी, इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
Bongaigaon Refinery, Indian Oil Corporation Limited  
डाकघर : धालीगाँव, P.O. Dhaligaon-783385  
जिला : चिरांग (असम) Dist. Chirang (Assam)

(SMS Islam)  
DGM- L&D



राष्ट्रीय प्रौद्योगिकी संस्थान, सिलचर  
**National Institute of Technology, Silchar**  
A Deemed University  
(Formerly Regional Engineering College)

Phone : (03842) - 224879/242273  
Fax : (03842) - 224797

E-mail : [director@nits.ac.in](mailto:director@nits.ac.in)  
Website : [www.nits.ac.in](http://www.nits.ac.in)  
<http://tenders.gov.in>

Assam - 788010 INDIA  
EPABX : 233841/233842

Date: 05 October, 2020

**TO WHOM SO EVER IT MAY CONCERN**

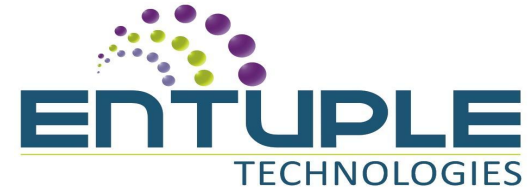
This is to certify that **Mr. Tanmoy Goswami** of Tezpur University bearing roll no. ELB16048 has successfully undergone one month Summer Internship during 5<sup>th</sup> August, 2020 to 2<sup>nd</sup> September, 2020 in my supervision. His work was about "*Cell Free Massive MIMO and Comparison with Small Cells massive MIMO*".

I wish him good luck and all the success in life.

*P. Pattanayak*  
*05/10/2020*

Dr. Prabina Pattanayak  
Assistant Professor  
Department of ECE  
NIT Silchar, Assam, India

*Assistant Professor*  
*ECE Department*  
*NIT Silchar-10*



# INTERNSHIP CERTIFICATE

This is to certify that **BIBEK SARMA**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



Handwritten signature of Mr. Puneet Kumar Mishra.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



Handwritten signature of Mr. Damodara M S.

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



# INTERNSHIP CERTIFICATE

This is to certify that **SAURAV JYOTI NATH**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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

## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. MOHAN JYOTI BARUAH** has completed internship programme on “**IOT Developer**” from 18.08.2020 to 18.09.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.



**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

प्रगत संगणन विकास केंद्र (सी-डैक)

## CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय की एक प्रधान अनुसंधान एवं विकास संस्था, भारत सरकार  
A Scientific Society of the Ministry of Electronics & Information Technology, Government of India



# CERTIFICATE OF INTERNSHIP

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms Sneha Deb Roy a student of Assam University, (A Central University established by an Act of Parliament), Silchar has successfully completed his/her Online internship program at C-DAC Thiruvananthapuram from 17-06-2020 to 17-08-2020 under the supervision of Shibu R M.

During the period of online internship program he/ she worked in the project titled User defined Communication Algorithm for Advanced Wireless Communication Systems.

We wish him/her every success in his/her future endeavours.

Date : 31-08-2020

Place : C-DAC SILCHAR

Mr. Debasish Deb  
Internship Coordinator  
C-DAC Silchar

Dr. Kirani Singh  
Group Head Education & Training  
C-DAC Silchar

Sir/Madam,

In the internship certificate that I am submitting has a minor mistake. The university they have mentioned is Assam University instead of Tezpur University. I have written to the organization to make the necessary correction and they have done it and had sent the hardcopies to the Training and Placement Cell of Tezpur University. As my quarantine period is not over yet, I am unable to visit the TnP cell to get the certificate. Please consider my case.

Thanking You.

Sneha Deb Ray —



Ministry of Micro, Small and Medium Enterprises,  
Government of India

# दूल रुड एवुं ट्रेनिंग सेन्टर, गुवाहाटी

## TOOL ROOM & TRAINING CENTRE, GUWAHATI

MINISTRY OF MSME - GOVERNMENT OF INDIA

Amingaon Industrial Area, Amingaon, Guwahati - 781 031 (Assam)

(An ISO 9001: 2015, 14001:2015 Certified Organisation)



Enroll. No. : 20-A/ST/IOT/0022/01616

Date 11/11/2020



*This is to certify* ..... **LAKHYA JYOTI DAS** ..... *that the within signed*

.....  
*son/daughter of* ..... **GOJEN DAS** .....

*having successfully completed the course on* ..... **E-LEARNING ON** .....

**INTERNET OF THINGS (IoT)** .....

*during the period from* ..... **12/10/2020** ..... *to* ..... **11/11/2020** .....

*R. Kumar*

Course Coordinator



*A. Saha*

Project Manager



**दूल रूम एवं ट्रेनिंग सेन्टर, गुवाहाटी**  
**TOOL ROOM & TRAINING CENTRE, GUWAHATI**  
 MINISTRY OF MSME - GOVERNMENT OF INDIA  
 Amingaon Industrial Area, Amingaon, Guwahati - 781 031 (Assam)  
 (An ISO 9001: 2015, 14001:2015 Certified Organisation)



Enroll. No. : 20-A/ST/IOT/0021/01615

Date 11/11/2020



*This is to certify* ..... **BUBUL PEGU** ..... *that the within signed*

son/daughter of ..... **BHIMKANTA PEGU** .....

*having successfully completed the course on* ..... **E-LEARNING ON** .....  
**INTERNET OF THINGS (IoT)** .....

*during the period from* ..... **12/10/2020** ..... *to* ..... **11/11/2020** .....

*M. Kumar*

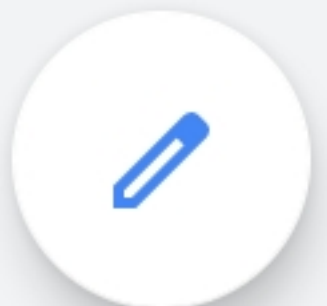
Course Coordinator



*P. Saha*

Project Manager

QMR-8.24-04





Ministry of Micro, Small and Medium Enterprises,  
Government of India

# दूल रूम एवं ट्रेनिंग सेन्टर, गुवाहाटी

## TOOL ROOM & TRAINING CENTRE, GUWAHATI

MINISTRY OF MSME - GOVERNMENT OF INDIA

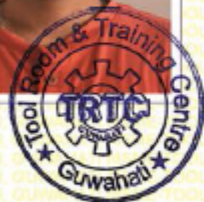
Amingaon Industrial Area, Amingaon, Guwahati - 781 031 (Assam)

(An ISO 9001: 2015, 14001:2015 Certified Organisation)



Enroll. No. : 20-A/ST/IOT/0023/01617

Date 11/11/2020



*This is to certify* ..... **RITAM KUMAR BASUMATARY** ..... *that the within signed*

*son/daughter of* ..... **LATE RABIRAM BASUMATARY** .....

*having successfully completed the course on* ..... **E-LEARNING ON** .....

**INTERNET OF THINGS (IoT)**

*during the period from* ..... **12/10/2020** ..... *to* ..... **11/11/2020** .....

*R. Kumar*

Course Coordinator



*Saha*

Project Manager

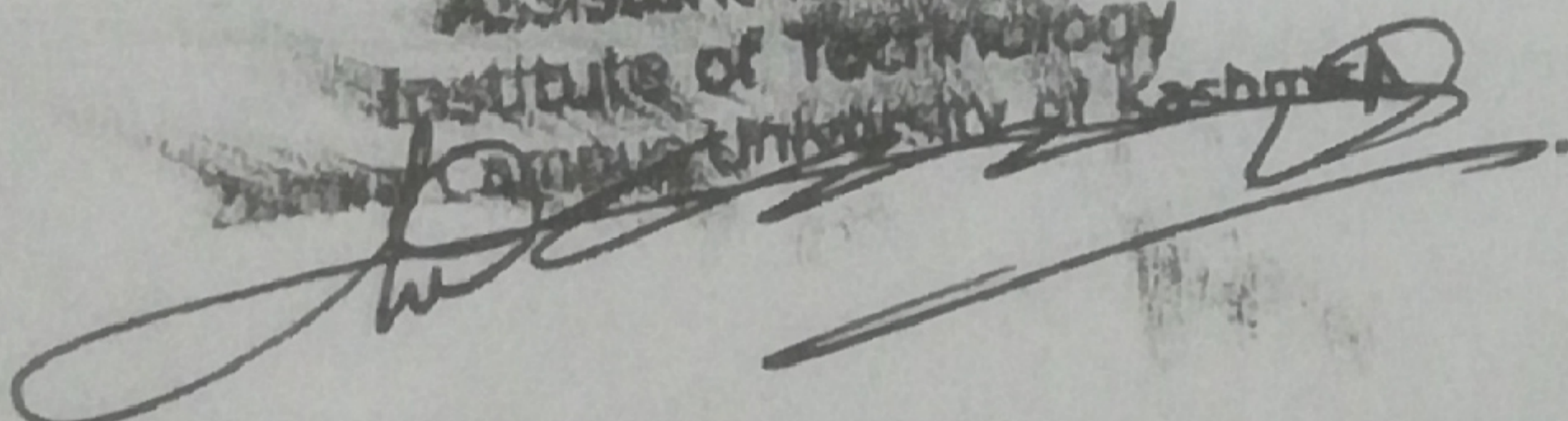
**INSTITUTE OF TECHNOLOGY**  
**University of Kashmir**  
Zakura Campus, Srinagar 190006

No. F (summer-internship) IOI/ KU /2019  
Dated: 19/07/2019

**TO WHOM IT MAY CONCERN**

This is to certify that the candidate namely Sareer Hussain currently in 4<sup>th</sup> semester pursuing B.Tech. in Tezpur Central University has done summer internship under me from 10<sup>th</sup> june 2019 to 20<sup>th</sup> july 2019. He worked on basic electronic circuit Design and Arduino.

**Rouf-ul-Alam Bhat**  
Assistant Professor  
Institute of Technology  
Zakura Campus, University of Kashmir



Er. Rouf Ul Alam Bhat

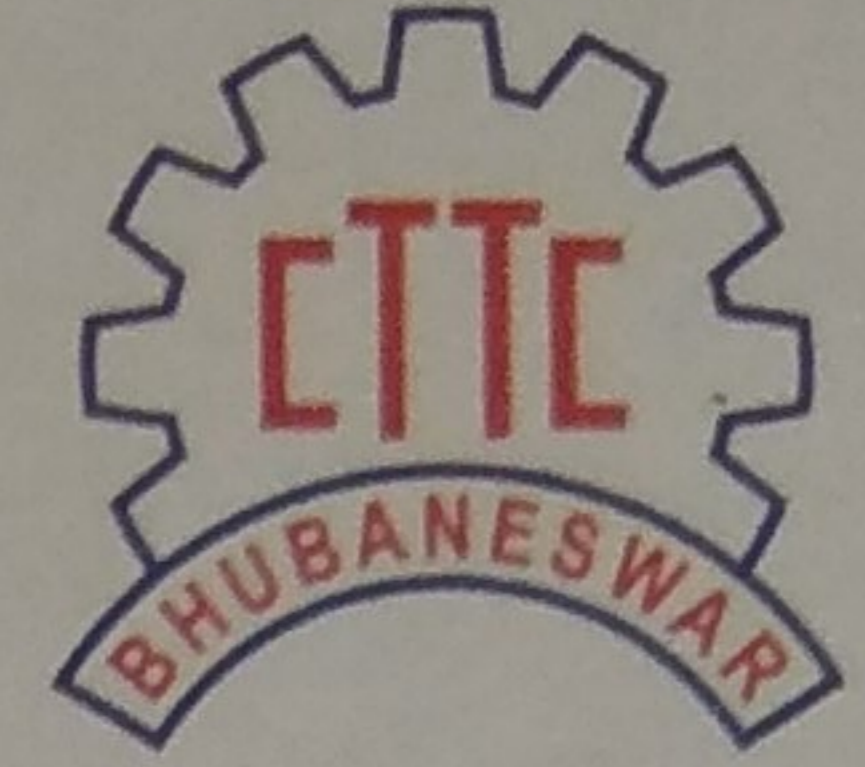
Asst. Professor

Department of Electronics & Communication Engineering

University of Kashmir

Serial No ...3893710.....

Roll No ...BBST411906002857.....



ISO-9001, ISO-14001  
OHSAS-18001  
ISO-29990

# CENTRAL TOOL ROOM & TRAINING CENTRE

**A Govt. of India Society**

(An Indo-Danish Project)

Under

**MINISTRY OF MSME**

B - 36, Chandaka Industrial Area  
Bhubaneswar -751024

*This is to certify that*

**Mr./Ms. RIMLEE DAS**

*has successfully completed the course*

**EMBEDDED SYSTEM**

*The course comprises the following subjects*

1. BASICS OF EMBEDDED SYSTEM
2. PROGRAMMING, ADDRESSING & INTERFACING OF 8051
3. PROGRAMMING, ADDRESSING & INTERFACING OF PIC
4. PROGRAMMING, ADDRESSING & INTERFACING OF ARM
5. PROJECT WORK

Period of Course From : 15. 06. 2019

To : 13. 07 .2019

Date of Award : 13. 07 .2019

Course Co-ordinator



Sr. Manager (Training)



ऑयल इंडिया लिमिटेड  
(भारत सरकार का संस्थान) पंजीकृत कार्यालय : दुलियाजान, असम  
**Oil India Limited**  
(A Government of India Enterprise) Registered Office: Duliajan, Assam

DULIAJAN - 786 602, ASSAM, INDIA  
Phone : 0374 - 2800518  
Fax : 0374 - 2801679  
E-mail : Ind@oilindia.in

Ref: L&D/CER/24:23/20-21/059

Date: 19/01/2021

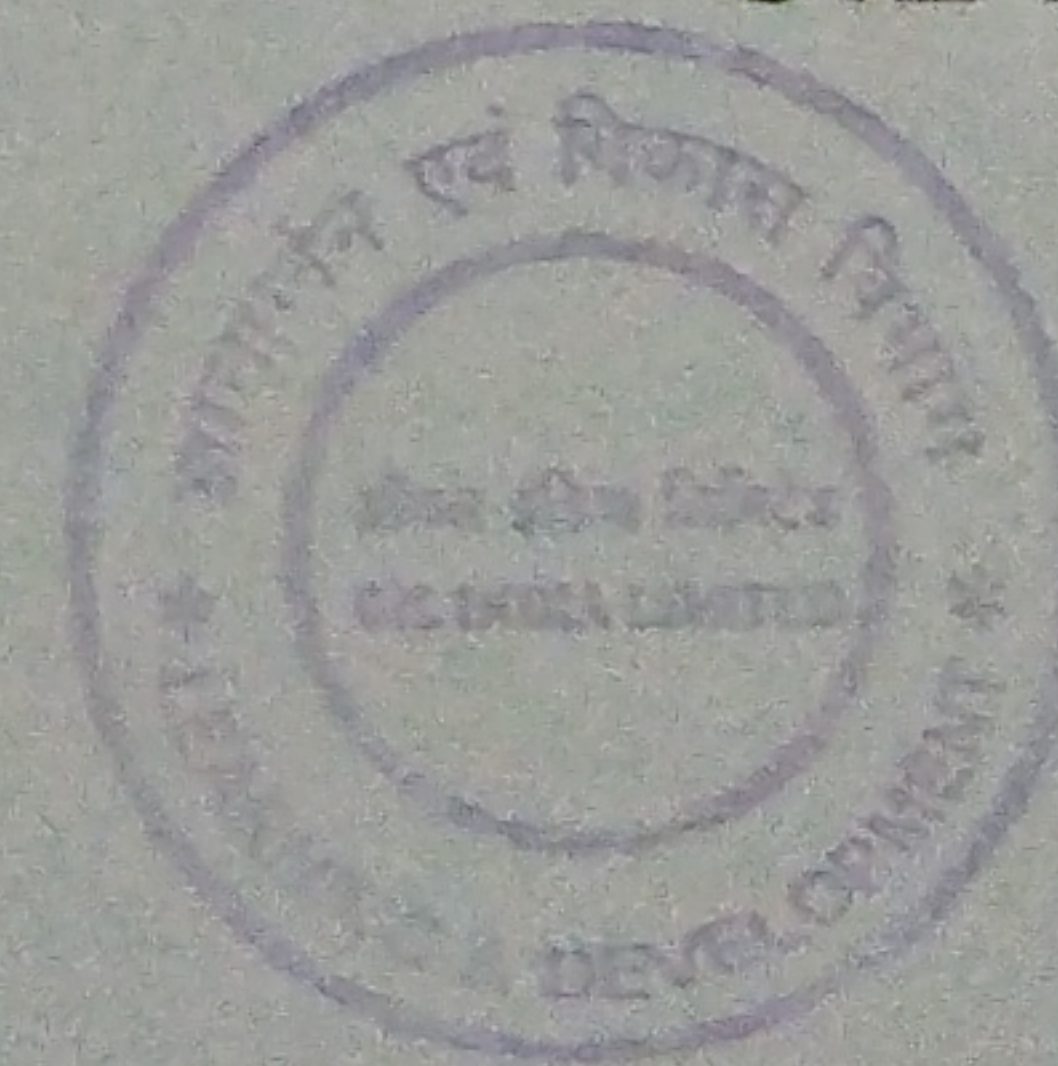
TO WHOM IT MAY CONCERN

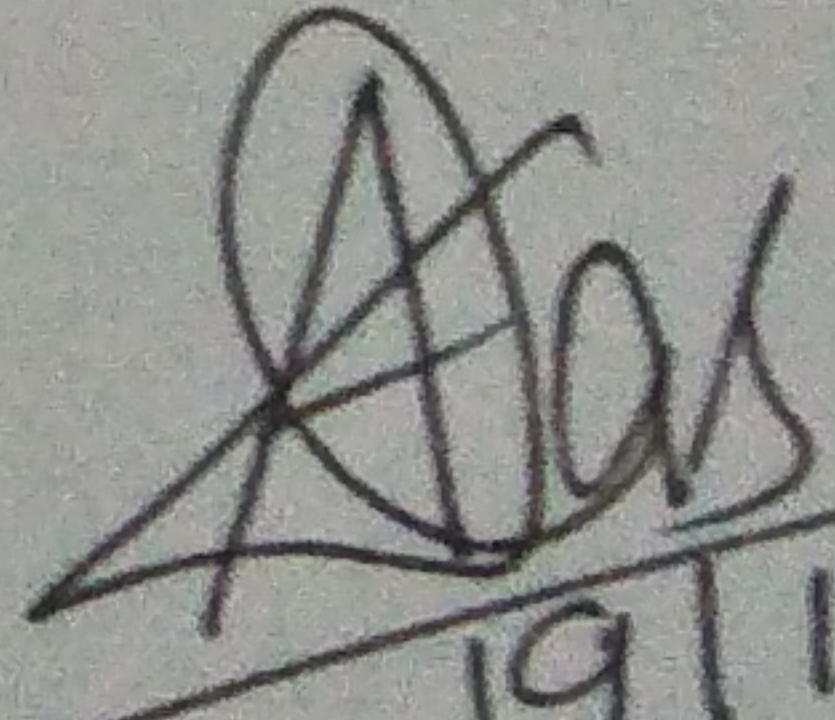
This is to certify that **Ms. Manisha Rajak**, a 7<sup>th</sup> Semester student of B. Tech in Electronic & Communication Engineering from Tezpur University, Tezpur Napaam, has successfully completed her Winter Internship in **Instrumentation & Field Communication Department** of Oil India Limited, Duliajan, Assam from **10.12.2020 to 08.01.2021**.

She was found to be hardworking, dedicated and devoted towards her training. Her conduct during the training period was observed to be good.

We wish success in all her future endeavours.

Yours faithfully  
**OIL INDIA LIMITED**



  
19/1/2021  
(ARATI DAS)

General Manager (L&D) – HoD  
For RESIDENT CHIEF EXECUTIVE



Ministry of Micro, Small and Medium Enterprises,  
Government of India

# दूल रूम एवं ट्रेनिंग सेन्टर, गुवाहाटी

## TOOL ROOM & TRAINING CENTRE, GUWAHATI

### MINISTRY OF MSME - GOVERNMENT OF INDIA

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(An ISO 9001: 2015, 14001:2015 Certified Organisation)



Enroll. No. : 20-A/ST/IOT/0020/01614

Date 11/11/2020



*This is to certify* ..... **BHASKAR TAYE** ..... *that the within signed*

*son/daughter of* ..... **JUGESWAR TAYE** .....

*having successfully completed the course on* ..... **E-LEARNING ON** .....  
..... **INTERNET OF THINGS (IoT)** .....

*during the period from* ..... **12/10/2020** ..... *to* ..... **11/11/2020** .....

*K. Kumar*

Course Coordinator



*A. Saha*

Project Manager



**Bharat Sanchar Nigam Limited**

(A Govt. of India Enterprise)

**Advanced Level Telecom Training Centre**

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Website : <http://alttc.bsnl.co.in>, Email : [alttc@bsnl.co.in](mailto:alttc@bsnl.co.in)

Tel No. +91 120 2702239, Fax : +91 120 2704605

## *CERTIFICATE*

Certificate Number

ALTBCNB235-2019-1043017



This is to certify that

***Manish Bhowmick***

Student of B. Tech. (ECE), 3rd Year, Tezpur University, Tezpur, Assam

has **successfully completed**

**SUMMER INDUSTRIAL TRAINING ON TELECOM TECHNOLOGIES, IOT**

at ALTTC, Ghaziabad

from June 03, 2019 to June 27, 2019

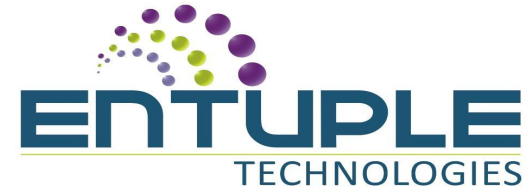
Dated: June 27, 2019

*Connecting India*

(Rajendra Mathur)  
AGM (BS-Civil)



ALTTC is the Apex Level Training Centre of BSNL established in 1975 as a joint Initiative of ITU, UNDP and Govt. of India



# INTERNSHIP CERTIFICATE

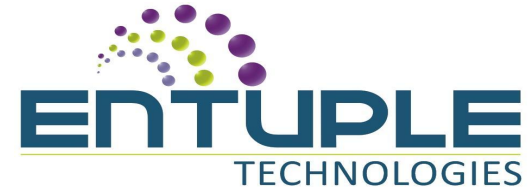
This is to certify that **KRISHNA VAMSI PONNADA**  
from  
**TEZPUR UNIVERSITY**  
has completed the Online Internship Program on  
**DESIGN AND VERIFICATION USING VERILOG**  
from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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



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This is to certify that **VIKASH KUMAR SINGH**

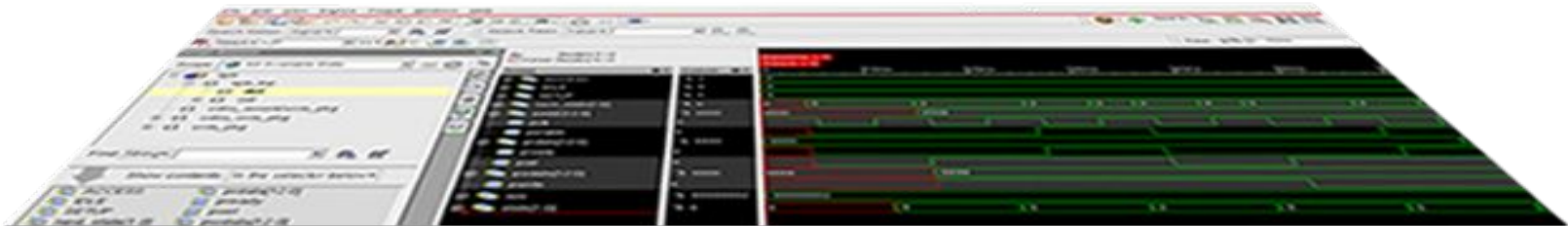
from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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

# CETPA INFOTECH PRIVATE LIMITED

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## *Certificate of Training*

This is to certify that

**Susmita Mishra**

*has successfully completed Six Weeks Summer Training on*

*"IOT"*

*from 29 July to 8 September, 2020*

*at CETPA INFOTECH PVT. LTD., Noida.*



**Vikas Kalra**

Director

**CETPA<sup>®</sup>**

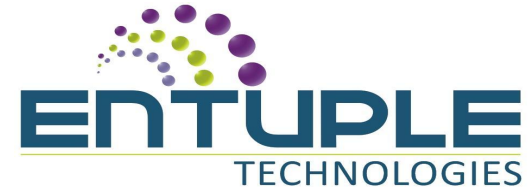
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**Anil Kumar Singh**

Director-Training



# INTERNSHIP CERTIFICATE

This is to certify that **RAJDEEP DAS**

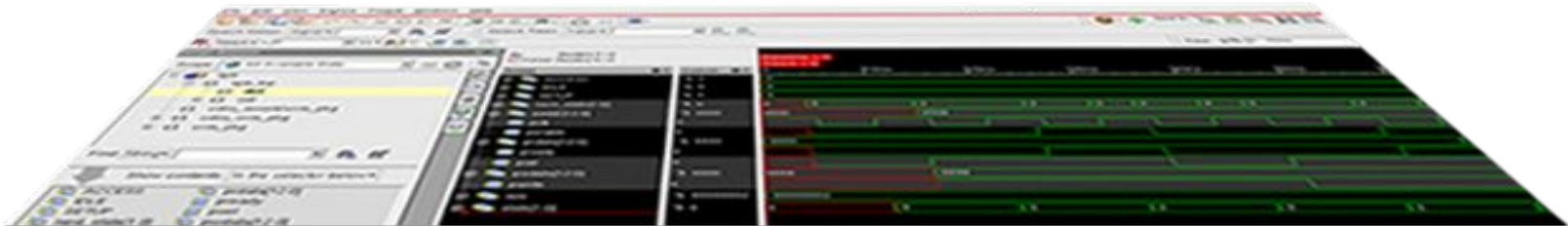
from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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

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## *Certificate of Training*

This is to certify that

**Mitali Das**

*has successfully completed Six Weeks Summer Training on*

*"IOT"*

*from 29 July to 8 September, 2020*

*at CETPA INFOTECH PVT. LTD., Noida.*



**Vikas Kalra**

Director

**CETPA<sup>®</sup>**

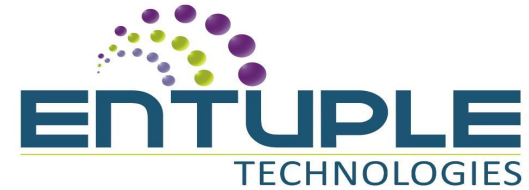
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**Anil Kumar Singh**

Director-Training



# INTERNSHIP CERTIFICATE

This is to certify that **VIKASH KUMAR SINGH**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



Handwritten signature of Mr. Puneet Kumar Mishra.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



Handwritten signature of Mr. Damodara M S.

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

# CETPA INFOTECH PRIVATE LIMITED

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## *Certificate of Training*

This is to certify that

**Monika Sharma Giri**

*has successfully completed Six Weeks Summer Training on*

*"IOT"*

*from 29 July to 8 September, 2020*

*at CETPA INFOTECH PVT. LTD., Noida.*



**Vikas Kalra**

Director

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**Anil Kumar Singh**

Director-Training

# Exposys Data Labs



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Jugabrat nath** has completed internship programme on “**IOT Developer**” from 27.07.2020 to 27.08.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. BHARGAV JYOTI NATH** has completed internship programme on “**IOT Developer**” from 28.07.2020 to 26.08.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.



**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

# Exposys Data Labs



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Sankar Jahori** has completed internship programme on “**IOT Developer**” from 28.07.2020 to 26.08.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Kingshuk Jyoti Nath** has completed internship programme on “**Data Science**” from 16.06.2020 to 16.08.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

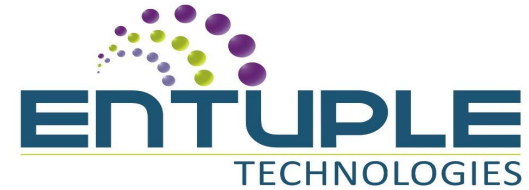


**Y Vishnuvardhan**

Chief Director



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# INTERNSHIP CERTIFICATE

This is to certify that **DIWAKAR KUMAR**  
from  
**TEZPUR UNIVERSITY**  
has completed the Online Internship Program on  
**DESIGN AND VERIFICATION USING VERILOG**  
from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



Handwritten signature of Mr. Puneet Kumar Mishra.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



Handwritten signature of Mr. Damodara M S.

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



# INTERNSHIP CERTIFICATE

This is to certify that **SURAJ KUMAR**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

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from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council

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



# INTERNSHIP CERTIFICATE

This is to certify that **MICHELLE MILI**

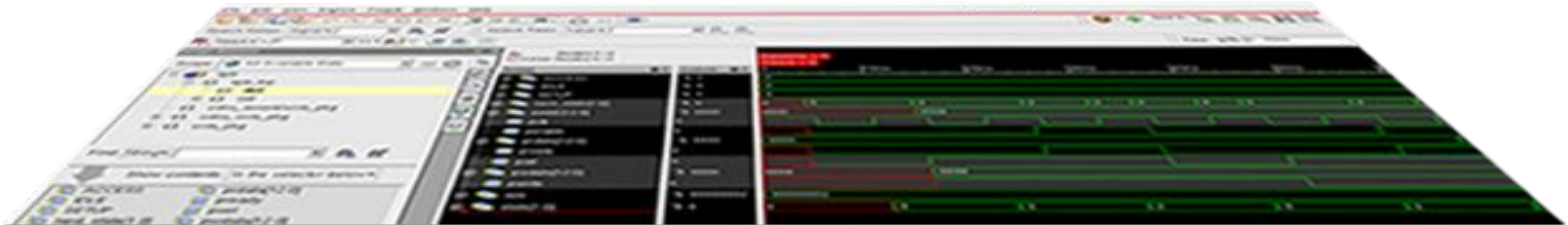
from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

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from 23<sup>rd</sup> June to 17<sup>th</sup> July 2020.



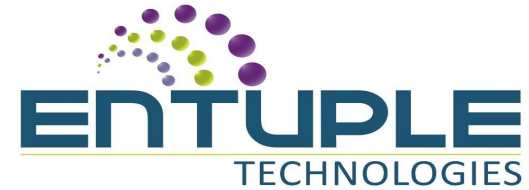
Handwritten signature of Mr. Puneet Kumar Mishra in black ink.

**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



Handwritten signature of Mr. Damodara M S in black ink.

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



# INTERNSHIP CERTIFICATE

This is to certify that **ARIYAN KAUSHIK**  
from  
**TEZPUR UNIVERSITY**  
has completed the Online Internship Program on  
**DESIGN AND VERIFICATION USING VERILOG**  
from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council

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

# Exposys Data Labs



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Himsikhar Deka** has completed internship programme on “**IOT Developer**” from 28.07.2020 to 26.08.2020.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

**Y Vishnuvardhan**

Chief Director



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A Scientific Society of the Ministry of Electronics & Information Technology, Government of India

# CERTIFICATE OF INTERNSHIP

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/MS \_\_\_\_\_

*Sonia Kumari*

a student of

*Tezpur University*

has successfully completed

his/her Online internship program at C-DAC \_\_\_\_\_

*Chennai*

from *17-06-2020*

to *17-08-2020* under the supervision of \_\_\_\_\_

*G Dhivya and Sayantani Bhattacharya*

During the period of online internship program he/ she worked in the project titled

*Implementation of Modulation Techniques in AVR based Microcontroller for Visible Light Communication .*

We wish him/her every success in his/her future endeavours.

Mr. Debasish Deb

Internship Coordinator

C-DAC Silchar

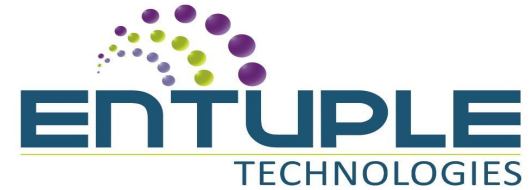
Dr. Kirani Singh

Group Head Education & Training

C-DAC Silchar

Date : 31-08-2020

Place : C-DAC SILCHAR



# INTERNSHIP CERTIFICATE

This is to certify that **LAHAR BARUAH**

from

**TEZPUR UNIVERSITY**

has completed the Online Internship Program on

**DESIGN AND VERIFICATION USING VERILOG**

from 23<sup>rd</sup> June to 3<sup>rd</sup> August 2020.



**Mr. Puneet Kumar Mishra**  
Chair, IEEE Bangalore Section  
Secretary, IEEE India Council



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



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**  
Tezpur-784028, Assam, India

**Dr. Nayan M. Kakoty**  
Associate Professor

**Phone: 03712-275263**  
**email: nkakoty@tezu.ernet.in**

---

### **CERTIFICATE**

This is to certify that the dissertation entitled **Towards EMG based Prosthetic Hand with Improved Controllability and Functionality** submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of work carried out by Mr. Lakhyajit Gohain (*ECO19001*) under my supervision during the period from July 2020 to June 2021. All support received by him from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

*Nayan M. Kakoty*

**(Nayan M. Kakoty)**

***Supervisor***

Date: 29<sup>th</sup> June, 2021

Place: Tezpur

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**TEZPUR UNIVERSITY**

Tezpur-784028, Assam, India

**Dr. Durlav Sonowal**

*Assistant Professor*

**Phone:** +91-3712275267

*email: [durlav007@gmail.com](mailto:durlav007@gmail.com)*

---

**CERTIFICATE**

This is to certify that the report entitled "**CUFFLESS DIGITAL SPHYGOMANOMETRIC MEASURING SYSTEM**" submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfillment for the award of the degree of Master of Technology in Bioelectronics, is a record of project work carried out by *Mrinmoy Singha* (ECO19007) under my supervision during the period from January 2021 to June 2021. All support received by them from various sources have been duly acknowledged. No part of this report has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

Date: 29/06/2021

Place: Tezpur

  
**Dr. Durlav Sonowal**  
*Supervisor*



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

***Prof. Partha Pratim Sahu***

**Professor**

**Phone: 03712-27 \_\_\_\_\_**

**email: pps@tezu.ernet.in**

---

**CERTIFICATE**

This is to certify that the       dissertation entitled '*A Study on Effect of Electronic Parameters on Diabetic Neuropathy by Using Rat Model*' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Bioelectronics, is a record of project work carried out by Ms. Pori Saikia (**ECO19004**) under my supervision during the period from August 2020 to June 2021. All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

Date:

Place: Tezpur

**(Prof. Partha Pratim Sahu)**  
**Supervisor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**  
Tezpur-784028, Assam, India

**Dr. Jiten Chandra Dutta**  
(Professor)

**Phone: +91 3712-275256**  
**Email: jitend@tezu.ernet.in**

---

**CERTIFICATE OF THE SUPERVISOR**

This is to certify that the dissertation entitled “**Electrochemical Modeling and Simulation of Junctionless Carbon Nanotube Field Effect Transistor for Cholesterol Detection**” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Bioelectronics, is a record of work carried out by **Bikash Das (ECO19006)** under my supervision during the period from August 2020 to June 2021.

All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

A handwritten signature in black ink, appearing to read "Dutta", is placed above the printed name of the supervisor.

(Signature of Supervisor)

**Designation:** Professor

**Place:** Tezpur

**Date:** 29/06/2021

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
TEZPUR UNIVERSITY  
Tezpur-784028, Assam, India**

**Dr. Nayan M. Kakoty**  
Associate Professor

**Phone: 03712-275263/5275**  
**email: nkakoty@tezu.ernet.in**

---

**CERTIFICATE**

This is to certify that the dissertation entitled “**PREDICTION OF UPPER LIMB AND LOWER LIMB MOVEMENTS THROUGH ESTIMATION OF EMG FROM EEG**” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Bioelectronics, is a record of project work carried out by Ms. *Tanaya Das (ECO19002)* under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

*Nayan M. Kakoty*

Date: 29.06.2021

**Dr. Nayan M. Kakoty**

Place: Tezpur University

***Supervisor***







**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

Dr. Priyanka Kakoty

Assistant Professor

**Phone: 03712-275253**

**email: priyankak@tezu.ernet.in**

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**CERTIFICATE**

This is to certify that the dissertation entitled, "**DESIGN AND SIMULATION OF CAPACITIVE GAS SENSOR USING COMSOL MULTIPHYSICS**" submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Bioelectronics, is a record of project work carried out by Mr. Suvajit Roy (ECO19005) under my supervision during the period from August 2020 to June 2021. All support received by him from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

Date: 27/6/21

Place: Tezpur

Dr. Priyanka Kakoty

Supervisor



**TEZPUR UNIVERSITY**

(A Central University established by an act of Parliament)

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

**Napaam, Tezpur-784028, Assam, India**

**Prof. Vijay Kumar Nath**

**Phone:** +91-3712-275264

**Fax:** +91-3712-267005/6

**Tezpur University**

**Email:** vknath@tezu.ernet.in

---

**CERTIFICATE**

This is to certify that the dissertation titled "**Remote Sensing Image Scene Classification using Multi-scale Local Adaptive Ternary Patterns and Fishers Vectors**" submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfillment of the requirements for the award of the degree of **Master of Technology in Bioelectronics**, is a record of work carried out by **Sangeeta Singha (ECO19003)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources has been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

(Prof. Vijay Kumar Nath)

**Supervisor**

**Department of ECE**

**Date:** 29/06/2021

**Place:** Tezpur



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

**Dr. Deepika Hazarika**  
**Associate Professor**

**Phone: 03712-275261**  
**email: deepika@tezu.ernet.in**

---

**CERTIFICATE**

This is to certify that the dissertation entitled '*Classification of COVID-19 Chest X-Rays and Lung CT-Images using 3D-nLocal Binary Pattern (nLBP) based feature and Support Vector Machine (SVM)*, ' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of **Master of Technology in Electronics Design and Technology**, is a record of project work carried out by **Ms. Tapasi Misra (ECD19010)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

A rectangular box containing a handwritten signature in blue ink and the date '30/6/2021' written below it.

Date: 30.06.2021

Place: Tezpur

**Dr. Deepika Hazarika**  
**Associate Professor**  
**Department of ECE**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

**Prof. Soumik Roy**

**Professor**

**Phone: +913712275258**

**email:xoumik@tezu.ernet.in**

---

**CERTIFICATE**

This is to certify that the dissertation entitled '*Primate Visual Cortex: A biologically Inspired Mathematical Translation for Deep Learning*' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by *Mr./Ms Rajesh Mandal (ECD19013)* under my supervision during the period from August 2020 to June 2021. All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

Date: 01/07/2021

**(Prof. Soumik Roy)**

Place: Tezpur University

*Supervisor*



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

**Dr. Riku Chutia**  
Assistant Professor

**Phone: 03712-275260**  
**email: [riku@tezu.ernet.in](mailto:riku@tezu.ernet.in)**

**CERTIFICATE**

This is to certify that the dissertation entitled '**Smart Data Glove for Hand Gesture Recognition**' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by Ms **Pooja Nath (ECD19008)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

Date: 2<sup>nd</sup> July 2021  
Place: Tezpur

**Dr. Riku Chutia**  
Assistant Professor  
Department of ECE



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**TEZPUR UNIVERSITY**  
**Tezpur-784028, Assam, India**

**Dr. Ratul Kumar Baruah**  
**Associate Professor**

**Phone: 03712-275265**  
**email:ratulkr@tezu.ernet.in**

**CERTIFICATE**

This is to certify that the dissertation entitled “*Modelling of the surface potential of a Junctionless Cylindrical Mosfet*” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of work carried out by *Mr. Dhiman Malakar (ECD19005)* under my supervision during the period from July 2019 to June 2021. All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

Date: 30/06/2021

Place: Tezpur

**(Dr. Ratul Kumar Baruah)**

*Supervisor*



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TEZPUR UNIVERSITY**

**Tezpur-784028, Assam, India**

**Dr. Jiten Chandra Dutta**  
(Professor)

**Phone: 03712-275256**  
**email: jitend@tezu.ernet.in**

---

**CERTIFICATE OF THE SUPERVISOR**

This is to certify that the dissertation entitled '**Study on the Influence of Fixed Ion concentrations in the Original H-H model of neuron on Seizure**' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by Ms. **Onishaa Saikia (ECD19011)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

Date : 30-06-2021

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This is to certify that the dissertation entitled '*Two Electrode ECG Data acquisition system for stress estimation*' submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by Mr./Ms *Mohammed Adil (ECD 19001)* under my supervision during the period from August 2020 to June 2021. All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

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This is to certify that the dissertation entitled “ *Modelling and simulation of DC-DC converters for traction control in Electric vehicle*” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment of the requirements for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by Ms. **Jenifer Manta (ECD19004)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

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This is to certify that the dissertation entitled “**Medical Image Classification using Modified Local Maximum Edge Binary Pattern based features and Support Vector Machine**” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of **Master of Technology in Electronics Design and Technology**, is a record of project work carried out by **Ms. Anjana Bharati Subba (ECD19009)** under my supervision during the period from August 2020 to June 2021. All support received by her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

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**CERTIFICATE**

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**CERTIFICATE**

This is to certify that the dissertation entitled “*Classification of Covid-19 Chest X-ray Using Multi-Scale 3D Complete Local Neighbor Intensity Pattern and Support Vector Machine*” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of **Master of Technology in Electronics Design and Technology**, is a record of work carried out by **Shashi Ranjan (ECD19002)** under my supervision during the period from July 2020 to June 2021. All support received by him/her from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma to the best of my knowledge.

A rectangular box containing a handwritten signature in blue ink, which appears to be "VKN".

Date: 30-06-2021  
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This is to certify that the dissertation entitled “*Development of SnO<sub>2</sub>-rGO Hybrid Nanocomposite Gas Sensors for Toxic Gas Detection at Room Temperature*” submitted to the Department of Electronics and Communication Engineering, Tezpur University in partial fulfilment for the award of the degree of Master of Technology in Electronics Design and Technology, is a record of project work carried out by **Mr. Piyush Kumar Thakur (ECD19007)** under my supervision during the period from August 2020 to June 2021. All support received by him from various sources have been duly acknowledged. No part of this dissertation has been submitted elsewhere for the award of any other degree or diploma.

**Date: 28/6/21**

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