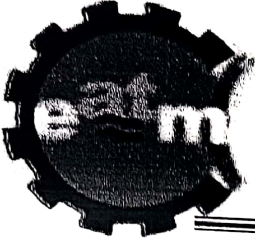


**Supporting Document for Quantitative Metric
1.3.2
Certificates of Project Work**



**Submitted to NAAC
By
Einstein Academy of Technology and Management (EATM),
Bhubaneswar**



Einstein Academy of Technology and Management
Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the project entitled "A STUDY ON PREDICTION OF RUN-OFF AND SEDIMENT-LOAD IN WATERSHEDS-USING HYBRID NEURAL NETWORKS" submitted by

Group-6 Students

Student Name	Student Sign.
PAPUNA TARAI	Papuna Tarai
PRADIPTA BISWAS	Pradipta Biswas
PRAKASH RANJAN BEHERA	Prakash Ranjan Behera
PRAMOD BARIK	Pramod Barik
LOPAMUDRA TARAI	Lopamudra Tarai
MAHIMA BEHERA	Mahima Behera

to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Bachelor of Technology has been carried out under our supervision in the Department of Civil Engineering, Einstein Academy of Technology and Management, Khurdha. This work has not been submitted elsewhere for the award of any other degree or diploma.

A.K. Sahoo

Project Guide

P. S. Hota

Project Coordinator

S. K. Choudhury

Prof. (Dr.) S. K. CHOUDHURY
HOD, CIVIL, KIST.

External Examiner

H. K. Sahoo

Head of the Department

S. K. Sahoo

Principal
Einstein Academy of Technology & Management
Bhubaneswar, Khurdha





Einstein Academy of Technology and Management
Bhubaneswar, Khurdha-752060 (ODISHA)

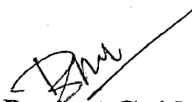
CERTIFICATE

This is to certify that the project entitled "A STUDY ON USE OF POLYMERIC WASTE MATERIALS IN CONCRETE FOR ROAD PAVEMENTS" submitted by

Group-5 Students


Student Name	Student Sign.
MALAY SWAIN	Malay Swain
MANAGOBINDA MAHANANDA	Managobindra Mahananda
MANAS RANJAN BISWAL	Manas Ranjan Biswal
MONALISA NAYAK	Manalisa Nayak
JYOTI PRAKASH MALIK	Jyoti Prakash Malik
MITHUN BALA	Mithun Bala

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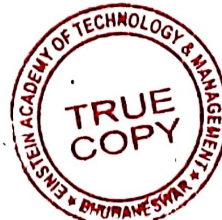

Project Coordinator

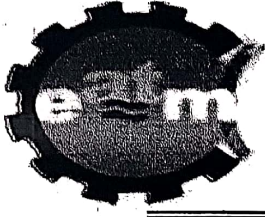

Head of the Department


Prof. (Dr). S-K-CHOUDHURY
HOD, CIVIL, KIST.

External Examiner

Principal
Einstein Academy of Technology & Management
Bhubaneswar, Khurda





Einstein Academy of Technology and Management
Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the Project entitled "A STUDY ON THE EFFECT OF QUARRY-DUST AS A PARTIAL REPLACEMENT OF NATURAL RIVER SAND IN CONCRETE" submitted by

Group-4 Students

Student Name	Student Sign.
DULLABA KUMBHAR	Dullaba Kumbhar
JAYANTA KUMAR MAJHI	Jayanta Kumar Majhi
JYOTIRADITYA BEHERA	Jyotiraditya Behera
KHUSIRAM BANGULA	Khushiram Bangula
DEBIPRASAD MALIK	Debiprasad Malik
JASHMINI BADASETH	Jashmini Badaseth

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HP Mishra

Project Guide

R. Mohanta

Project Coordinator

C. Mishra

Prof. (Dr.) S. K. CHAUDHURI
HOD, CIVIL, KIST.

External Examiner

HP Mishra

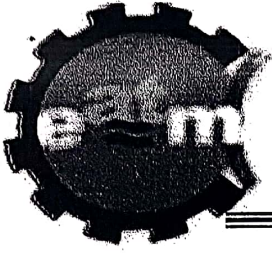
Head of the Department

J. B. Patra

Principal

Einstein Academy of Technology & Management
Bhubaneswar, Khurda





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Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the project entitled "IMPROVEMENT OF COMPRESSIVE STRENGTH OF PERVIOUS CONCRETE" submitted by

Group-9 Students

Student Name	Student Sign.
SWARNAM PRIYADARSHINI	Swarnam Priyadarshini
TUSARAKANTA JENA	Tusarakanta Jena
PRITAM NAYAK	Pritam Nayak
RAM SANKAR DURGA PRASAD SETHI	Ram Sankar Durga Prasad sethi
RANJAN KUMAR SETHI	Ranjan Kumar sethi
OMPRAKASH KALO	Ompakash Kalo

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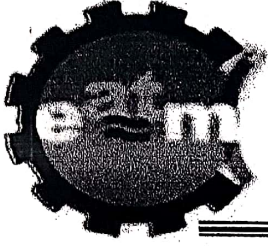
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Head of the Department

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CERTIFICATE

This is to certify that the project entitled "IMPROVEMENT OF COMPRESSIVE STRENGTH OF PERVIOUS CONCRETE" submitted by

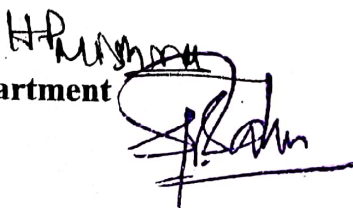
Group-10 Students


Student Name	Student Sign.
SATYAPRIYA MALIK	Satyapriya malik
SIDHANTA NAYAK	Sidhanta Nayak
SOURAV KUMAR MALLICK	Sourav Kumar Mallick
SRIYAJI TARAI	Sriyaji Tarai
DULHANI PUTA	Dulhani puta
KSHIRODINI NAG	Kshirodini Nag
MUNA SET	Muna Set

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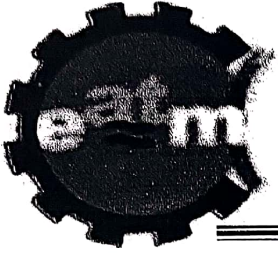

Head of the Department


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External Examiner

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Bhubaneswar, Khurda





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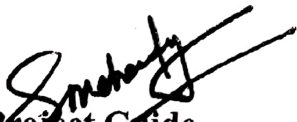
CERTIFICATE

This is to certify that the project entitled "EFFECT OF MIXING OF CHOPPED GLASS FIBER ON THE STRENGTH OF CONCRETE TILES" submitted by

Group-7 Students


Student Name	Student Sign.
SANTANU KUMAR PALEI	Santanu Kumar Palei
SANTILATA BESHRA	Santilata Beshra
SATYAPRAKASH PATRA	Satyaprakash Patra
SHAKTI MAHANANDA	Shakti Mahananda
MONALISA SETHI	Monalisha Sethi
NIJANTA BADAMAJHI	Nijanta Badamajhi


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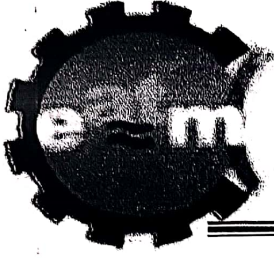

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Prof. (Dr). S. K. CHAUDHURI
HOD, CIVIL, NIT
External Examiner



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Bhubaneswar, Khurda





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Bhubaneswar, Khurda-752060 (ODISHA)

CERTIFICATE

This is to certify that the project entitled "IMPROVEMENT OF COMPRESSIVE STRENGTH OF PERVIOUS CONCRETE" submitted by

Group-8 Students

Student Name	Student Sign.
SIDHARTH SATRUSALYA	Sidharth Satrusalya
SOUMYA RANJAN PARIDA	Soumya Ranjan Parida
SRADHANJALI MAHARANA	Sradhanjali Maharana
SUBHASREE SUCHISMITA NAYAK	Subhasree S. Suchismita Nayak
POOJARANI BEHERA	Poojarani Behera
NITISH MALIK	Nitish Malik

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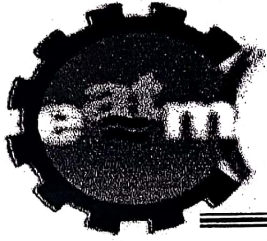
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Head of the Department

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Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the Project entitled "AN EXPERIMENTAL STUDY ON METAKAIOLIN CONCRETE IN PAVER BLOCKS" submitted by

Group-2 Students

Student Name	Student Sign.
ANTARYAMI PALAI	Antaryami Palai
BARUN BAG	Barun Bag
DEEPANJALI HARPAL	Deepanjali Harpal
AJAYA KUMAR NAYAK	Ajay Kumar Nayak
AKASH RAY	Akash Ray
ANKITA NAYAK	Ankita Nayak

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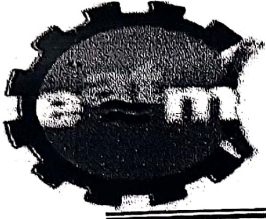
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Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the Project entitled "PARTIAL REPLACEMENT OF AGGREGATE WITH CERAMIC TILES IN CONCRETE" submitted by

Group-1 Students

Student Name	Student Sign.
ABHINASH NAYAK	Abhinash Nayak
ALISHARANI BEHERA	Alisha Rani Behera
ANIL KUMAR BEHERA	Anil Kumar Behera
ANUPRIYA SIKHA	Anupriya Sikha
AJAY KUMAR NAIK	Ajay Kumar Naik
ANALESHPATRA	Analesh Patra

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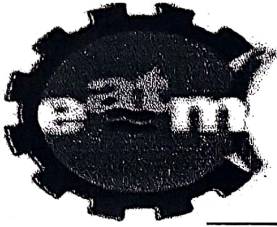
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Bhubaneswar, Khurda

Prof. (Dr.) S. K. CHAUDHURY
HOD, CIVIL, KIST.

External Examine





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Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the Project entitled "A CO-RELATION STUDY BETWEEN VEGETATION AND BUILT-UP INDEX WITH LST : A CASE STUDY OF JHARSUGUDA, ORISSA" submitted by

Group-3 Students

Student Name	Student Sign.
DIBYASHA PRIYADARSINI JENA	Dibyasha Priyadarshini Jena
DIPAK HALDAR	Dipak Haldar
DIPUN BEHERA	Dipun Behera
DULESWARI BHUE	Duleswari Bhue
APARJITA PRADHAN	Aparajita Pradhan
AJIT KUMAR SAMAL	Ajit Kumar Samal

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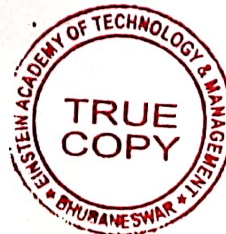
Prof. (Dr). S. K. CHAUDHURI,
HOD, CIVIL, KIST.

External Examiner

Head of the Department

Principal

Einstein Academy of Technology & Management
Bhubaneswar, Khurda





Einstein Academy of Technology and Management
Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **HOSTEL MANAGEMENT SYSTEM** submitted by KHAGESWARMOHANTA(1901322076), RAJATKUMARSAHOO(1901322088), SUBHASHR EE SUBHADARSHINEE(1901322110), SULABHA KUMAR SAHOO(1901322112) in partial fulfillment of the requirements for the Bachelor of Technology with specialization in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Bhubaneswar, Khurda





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CERTIFICATE

This is to certify that the project entitled **Wedding Management Systems** submitted by ADARSH NAIK(1901322059), BISHNU KUMAR GHANA(1901322066), CHOUDHURI DEBABRATA MANTRI(1901322067), SANDIP SWAIN(1901322098), SUBHA PRAKASH PATRA(1901322108) in partial fulfillment of the requirements for the Bachelor of Technology with specialization in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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CERTIFICATE

This is to certify that the project entitled **ONLINE EXAMINATIONS** submitted by **ROUPYA RANJAN DALAI(1901322091), SAGAR KUMAR NAYAK(1901322093), SUSHANTA KANDI(1901322114), PURNIMA BEHERA(2021322076)** in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Bhubaneswar, Khurda





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CERTIFICATE

This is to certify that the project entitled **Text Sentimental Analysis using Logistic Regression** submitted by AMITKUMARMAHAPATRA(1901322060),DURGABATI BEHERA(1901322071), PRITEE JENA(1901322085),SABITA BAHUK(1901322092),BHAGYASHREE MALIK(2021322077)in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Air Quality Analysis and Predictions** submitted by **ABINASH ROUT(1901322058), ANAND RAJ ANAND(1901322061), SIBANANDA TARAI(1901322102)** in partial fulfillment of the requirements for the Bachelor of Technology with specialization in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance


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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Message Passing Protocol using Chatbots** submitted by **SAMEERLUHA(1901322097)**, **MOUSUMIMAHANANDIA(1901322080)**, **GEETADALAI(1901322072)**, **H.CHAMPION SUNA(1901322073)** in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Movie Recommendation Systems** submitted by **BIKASH KUMAR BARAL(1901322064), KRUSHNA CHANDRA ROUT(1901322077), SATYAJEET DAS(1901322101), SUBHAJIT SWAIN(1901322108), RAHUL RAY(1901322086)** in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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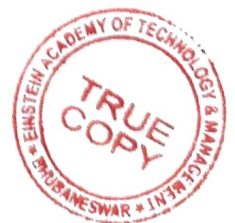
This is to certify that the project entitled **ONLINE EXAMINATION** submitted by PABITRA KUMARSWAIN(1901322083),RAJESWAROJHA(1901322089),RAKESHKUMARSAHOO(1901322090),SAILENDRI MALLICK(1901322095)in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.

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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Hostel Attendance Systems** submitted by **BESAL KUMAR ROUT(1901322063), DIBYAJYOTI JENA(1901322070), MIHIR KUMAR MISHRA(1901322079), SOUMITREE JENA(1901322107)** in partial fulfillment of the requirements for the Bachelor of Technology with specialization in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Department of Computer Science & Engineering


CERTIFICATE

This is to certify that the project entitled **IoT Based Smart Farming** submitted by **SIDDHANTI BHOI(1901322103), CHANDANKUMAR MAHALIK(2021322079), SUJATA BEHERA(1901322111)** in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Department of Computer Science & Engineering

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This is to certify that the project entitled **K-Means clustering with Mall Customer Segmentation Data** submitted by JAYANTA KUMAR PADHAN(1901322074), KARISHMA TANDI(1901322075), MURALIDURIA(1901322081), NIKHILKERKETTA(1901322082), SANGITA BHOI(1901322099) in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.

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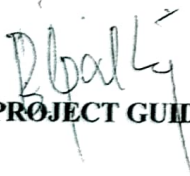




Einstein Academy of Technology and Management
Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Online Voting Systems** submitted by DEBABRATA SAMANTARAY(1901322068), RAJALAXMINAYAK(1901322087), SONALINAYAK(1901322105), SUVANI MOHAPATRA(1901322115) in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Bhubaneswar, Khurda





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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the project entitled **Predicting the Boston House Price Datasets** submitted by ANIMESH RAY(1901322062), RAHUL MALLICK(1901322086), SAGAR RAY(1901322095), SK AFRID(1901322104), VIBEK JENA(1901322117) in partial fulfillment of the requirements for the Bachelor of Technology in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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Plot No. 10, Sector 10, Bhubaneswar





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Department of Computer Science & Engineering

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This is to certify that the project entitled **Customer Segmentation for Shopping Mall Using K-Mean Clustering** submitted by DEBASIS MAJHI(1901322069), LAKI NAIKA (1901322078), SAGAR PRADHAN(1901322094) , SARASWATI KANDI (1901322100), SONAM SETHI(1901322106) in partial fulfillment of the requirements for the Bachelor of Technology with specialization in Computer Science & Engineering from Einstein Academy of Technology and Management (EATM) under **Biju Patnaik University of Technology, Odisha** in the academic session: 2022-23 is a bonafied work carried out by him or her under my direct supervision and guidance.


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CERTIFICATE

This is to certify that the dissertation work entitled “INTELLIGENT SWITCH BOARD USING IOT & REMOTE” is a bonafide work done by Divyanshu Raj(1901322171), Debasmita Das(2021322175), Sonali Mohan Patra(2021322179), Swoyamprajnya Mohapatra(1901322187) and Mintookumar(1901322180) submitted in partial fulfilment for the award of Bachelor in Technology degree in Electronics and Communication Engineering from Einstein Academy of Technology and Management affiliated to Biju Patnaik University of Technology, Odisha in the academic session 2022-23.

Sumit Kr. Choudhary
Prof. Sumit Kr. Choudhary

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Dillip Kr. Nayak
Prof(Dr). Dillip Kr. Nayak

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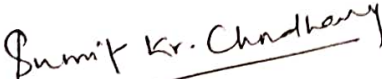
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This is to certify that the dissertation work entitled “INTELLIGENT SWITCH BOARD USING IOT & REMOTE” is a bonafide work done by Divyanshu Raj(1901322171), Debasmita Das(2021322175), Sonali Mohan Patra(2021322179), Swoyamprajnya Mohapatra(1901322187) and Mintookumar(1901322180) submitted in partial fulfilment for the award of Bachelor in Technology degree in Electronics and Communication Engineering from Einstein Academy of Technology and Management affiliated to Biju Patnaik University of Technology, Odisha in the academic session 2022-23.


Prof. Sumit Kr. Choudhary

PROJECT GUIDE

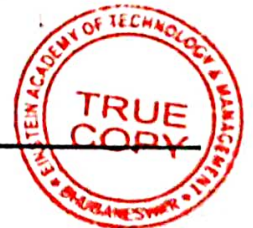

Prof. (Dr.) Dillip Kr. Nayak

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This is to certify that the dissertation work entitled “RC BASED GRASS CUTTER” is a bonafide work done by Lija Barik (1901322178), Lambodar Bag (1901322177), Bebina Mahapatra (2021322174), Sumit Suman (2021322172) and Nirmala Kumar Dash (2021322171) submitted in partial fulfilment for the award of Bachelor in Technology degree in Electronics and Communication Engineering from Einstein Academy of Technology and Management affiliated to Biju Patnaik University of Technology, Odisha in the academic session 2022-23.

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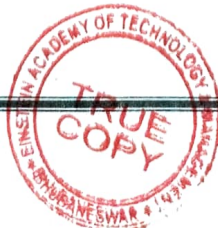
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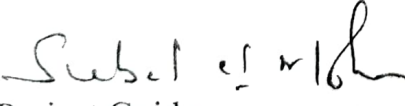




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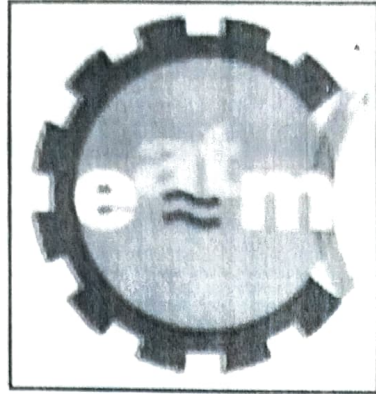

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This is to certify that the project work entitled “**Development of Mini Solar Power Plant and its Performance Testing**” is the work done and submitted by “**ADARSH BIRDA (1901322313), SUSHREE SANGITA BUIHERA (1901322314), BANDEE JYOTI PATRA (1901322315), BISWAJIT PATRA (1901322316)**” in partial fulfillment for the award “**BACHELOR OF TECHNOLOGY (B.TECH)**” in Electrical Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

Debi Prasad Sahoo
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Adarsh

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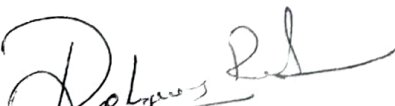




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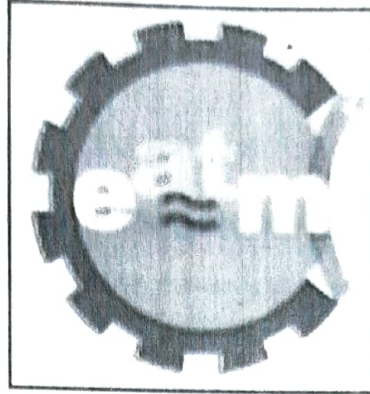

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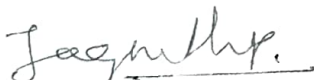


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This is to certify that the project work entitled “**Intelligent Load Sharing System for Domestic and Industrial Loads**” done and submitted by “**ABHIRAM KUMAR NIRMAL (1901322143), DEBAPATI PANIGRAHI (1901322144), ANIRBAN HANSDHAR (1901322151), ANIRBAN DAS (1901322152), SANJEE MALIK (1901322163), SANTOSH PRASAD SWAIN (1901322164)**” in partial fulfillment for the award “**BACHELOR OF TECHNOLOGY (B.TECH)**” in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

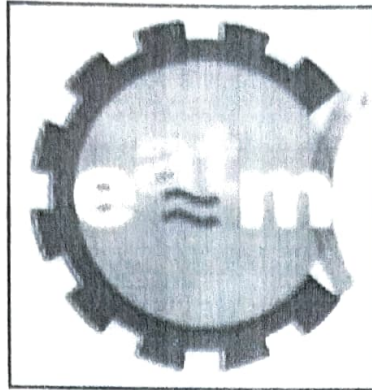

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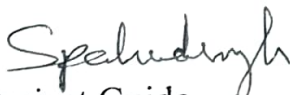


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This is to certify that the project work entitled **“Foot Step Power Generation Using Piezo-Electric Sensors”** done and submitted by **“SUBHANKAR BARIK (1901322170), TARINI PRASAD PRADHAN (1901322171), ANSHULOSH SAHU (1901322142), BISWAJIT PATRA (1901322143), DEBANGAN KUMAR SAHUK (1901322144), ANIRBAN SAHUK (1901322145)”** in partial fulfillment for the award **“BACHELOR OF TECHNOLOGY (B.TECH)”** in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.


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This is to certify that the project work entitled “*Design of Solar MPPT Tracker for Home Inverter*” done and submitted by “LAYANTI BUDHON (1901322160), PURINI SAHOO (190132208), RASHTRIK SINGH (190132211), SANKU SURYA SAHAI (190132217), SOMYARANJAN PRANAD SAMANTA (1901322123), SOMYARANJAN SAHAI (1901322169)” in partial fulfillment for the award “**BACHELOR OF TECHNOLOGY (B.TECH)**” in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

Krushna Charitra Saha
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This is to certify that the project work entitled **“Induction Motor Protection System Using Sensors”** done and submitted by **“SANTOSH BEHERA (1901322137), SHANKU PRATAP MAJHI (1901322138), KISHAN KUMAR OJHA (1901322139), SIPPAN SUTAI MOJIB (1901322140), SUBHENDU KUMAR RAY (1901322141), TAPAN KUNWAR BEHERA (1901322103)”** in partial fulfillment for the award **“BACHELOR OF TECHNOLOGY (B.TECH)”** in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

Sh. Ahsaz Aehmed

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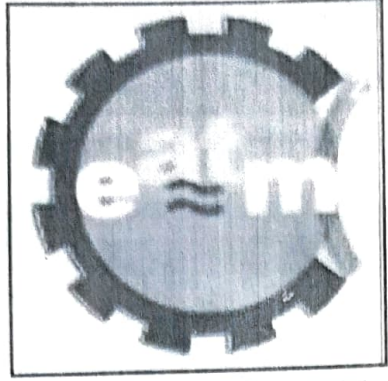
This is to certify that the project work entitled “**Smart Phone Based Home Appliance Control**” done and submitted by “MALPEKA MAJHI (1901322132), ANAMUNT MOHAPATRA (1901322133), PRANAV KUMAR (1901322134), RAHUL KUMAR (1901322135), RASMITA MAJHI (1901322136)” in partial fulfillment for the award “**BACHELOR OF TECHNOLOGY (B.TECH)**” in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

SP Nayak
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M. Malpeka
Head of Department

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This is to certify that the project work entitled "*Fault Analysis in Power System with Auto Rest for Temporary Fault*" is done and submitted by "DASANI MAJHI (1901322126), HIMANSU SEKHAR TARAI (1901322128), AYASHREE DAL (1901322129), LAXMI NARAYAN MARTHA (1901322130), LIPIKA MAJHI (1901322131) in partial fulfillment for the award "*BACHELOR OF TECHNOLOGY (B.TECH)*" in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.

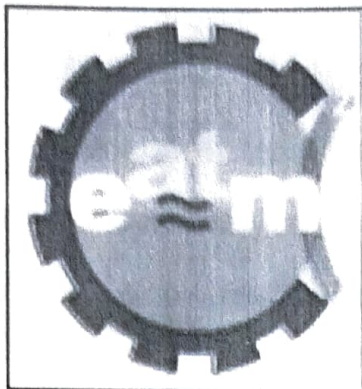

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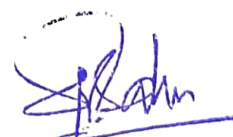

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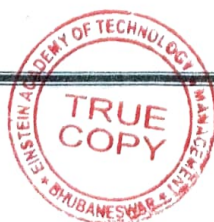
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This is to certify that the project work entitled “*RFID and GSM Based Prepaid Energy Meter with Power Theft Detection*” done and submitted by “ANIL KUMAR PATRA (1901322120), ANSUMAN TARAI (1901322121), ASHIS KUMAR JENA (1901322122), BRUNDABATI MAJHI (1901322124), DAITARI NAG (1901322125) in partial fulfillment for the award “*BACHELOR OF TECHNOLOGY (B. TECH)*” in Electrical & Electronics Engineering from Einstein Academy of Technology and management affiliated to BPUT, Odisha.


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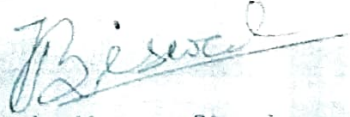
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This is to certify that the Thesis entitled "Prediction of Inverse Kinematics Solution of a Redundant Manipulator using ANFIS" by **Laraib Ahmad, Regd. No. 2107322002** to **Biju Patnaik University of Technology**, Rourkela for the award of the degree of **Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design)** is a record of bonafide research work done by him under my Supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

The work reported in this thesis is original and has not been submitted to any other institution or university for the award of any degree or diploma.


Dr. Biswajit Nayak
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Dr. Jitendra Narayan Biswal
HOD


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Bhubaneswar, Khurda





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This is to certify that the Thesis entitled "INVESTIGATION INTO MECHANICAL AND TRIBOLOGICAL BEHAVIOUR OF ORANGE PEEK REINFORCED EPOXY COMPOSITE"

by Litan Patra, Regd. No. 2107322003 to Biju Patnaik University of Technology, Rourkela for the award of the degree of Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design) is a record of bonafide research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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This is to certify that the Thesis entitled "Free Vibration Analysis of Sandwich Panel" by Md. Shabbir Hussain, Regd. No. 2107322004 to **Biju Patnaik University of Technology**, Rourkela for the award of the degree of **Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design)** is a record of bonafide research work done by him under my Supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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Prof. (Dr) Suvendu Prasad Sahu
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Dr. Jitendra Narayan Biswal
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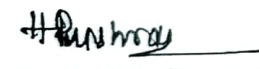
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This is to certify that the thesis entitled "ANALYSIS AND DESIGN OF MULTI-STOREYED BUILDINGS BY USING STAAD PRO." submitted by MD SAWOOD ALAM (2107322013) to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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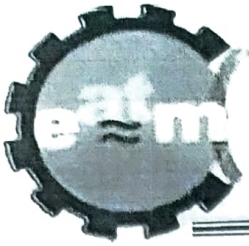

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This is to certify that the thesis entitled "EFFECT OF SIZE OF AGGREGATE ON SELF COMPACTING CONCRETE OF M70 GRADE" submitted by PRADOSH KUMAR MALLICK (2107322015) to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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This is to certify that the thesis entitled "AN INVESTIGATION ON STRENGTH PROPERTIES OF CONCRETE BY USING GLASS FIBRE REINFORCEMENT OF DIFFERENT ASPECT RATIO" submitted by MAMALI MAHAPATRA (2107322012) to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization-Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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*This is to certify that the thesis entitled "EFFECT OF CHOPPED GLASS FIBERS ON THE STRENGTH OF CONCRETE TILES" submitted by **LOKA NATH NAIK (2107322011)** to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.*

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*This is to certify that the thesis entitled "STUDY ON STRENGTH PROPERTIES OF CONCRETE BY MIXING OF NANO ALUMINA AND SAW DUST AS A COMPOSITE MATERIALS OF M30 GRADE OF CONCRETE" submitted by **BHAGAN HANSDAH (2107322007)** to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.*

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Bhubaneswar, Khurdha-752060 (ODISHA)

CERTIFICATE

This is to certify that the thesis entitled "STRENGTHENING OF REINFORCED CONCRETE BEAMS USING GLASS FIBER REINFORCED POLYMER COMPOSITES" submitted by RAJALAXMI BEHERA (2107322019) to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

The work reported in this thesis is original and has not been submitted to any other institution or university for the award of any degree or diploma.

Project Guide

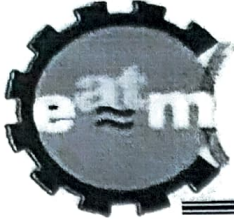
Project Coordinator

Head of the Department

External Examiner

Principal





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CERTIFICATE


*This is to certify that the thesis entitled "DESIGN OF EARTHQUICK RESISTANCE OF MULTI-STOREYED RESIDENTIAL CUM COMMERCIAL BUILDING" submitted by **DIPTREKHA JENA** (2107322009) to the Biju Patnaik University of Technology Rourkela, Odisha for the award of the degree of Master of Technology in Civil Engineering (Specialization- Structural Engineering) is a record of bonafied research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.*


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Project Coordinator


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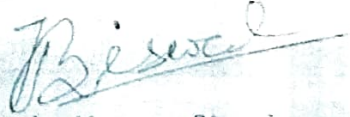
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This is to certify that the Thesis entitled "Prediction of Inverse Kinematics Solution of a Redundant Manipulator using ANFIS" by **Laraib Ahmad, Regd. No. 2107322002** to **Biju Patnaik University of Technology**, Rourkela for the award of the degree of **Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design)** is a record of bonafide research work done by him under my Supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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Dr. Biswajit Nayak
Guide


External Examiner


Dr. Jitendra Narayan Biswal
HOD


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Bhubaneswar, Khurda





CERTIFICATE

This is to certify that the Thesis entitled "INVESTIGATION INTO MECHANICAL AND TRIBOLOGICAL BEHAVIOUR OF ORANGE PEEK REINFORCED EPOXY COMPOSITE"

by Litan Patra, Regd. No. 2107322003 to Biju Patnaik University of Technology, Rourkela for the award of the degree of Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design) is a record of bonafide research work done by him under my supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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Principal
English Academy of Technology & Management
Bhubaneswar, Odisha
Guide


External Examiner


Dr. Jitendra Kumar Singh
11/10





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This is to certify that the Thesis entitled "Free Vibration Analysis of Sandwich Panel" by Md. Shabbir Hussain, Regd. No. 2107322004 to **Biju Patnaik University of Technology**, Rourkela for the award of the degree of **Master of Technology in Mechanical Engineering (Specialization: Mechanical System Design)** is a record of bonafide research work done by him under my Supervision and guidance. The thesis satisfies the requirement of the regulation relating to the degree.

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Prof. (Dr) Suvendu Prasad Sahu
Guide

External Examiner

Dr. Jitendra Narayan Biswal
HOD


- Principal
Einstein Academy of Technology & Management
Bhubaneswar, Khurda



PCH

CERTIFICATE OF INTERNSHIP

This Is To Certify That Mr./Ms. **ASHISH KUMAR SAHOO** AS Student Of Einstein Academy Of Technology And Management , ASHISH Bearing Reg No. 2106322008 Has Successfully Completed The Internship Program From 12Th Dec 2022 To 6Th Jan 2023 In Our Organization.


Signature & Stamp Of Authorized Person



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Einstein Academy of Technology & Management
Bhubaneswar, Khurda



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CERTIFICATE OF INTERNSHIP

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Divya Madhab Sahoo,
Signature & Stamp Of Authorized Person

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Einstein Academy of Technology & Management
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CERTIFICATE

This is to certify that the SUMMER TRAINING Project Report entitled "A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT" being submitted by BARSAPRIYADARSINI PARIDA for fulfillment of the requirement of BUU PATNAIK UNIVERSITY OF TECHNOLOGY is a record of an independent work done by her under my guidance and supervision.

[Handwritten Signature]
10/01/23

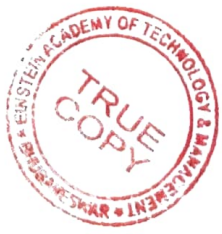
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AUTHORIZED SIGNATURE

PRADIP KUMAR RATH
(Manager)
SATYABADI AUTOMOBILES

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CERTIFICATE

DATE:- 15/03/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that MD NASIM , a student of EINSTEIN ACADEMY OF TECHNOLOGY AND MANAGEMENT, KHORDHA has successfully completed 90 days long internship in Survey and Marketing of Finance company and how a NBFC company function at NIMAPADA With A Grade. During the period of his internship program with us he was found Punctual, hardworking and inquisitive.

We wish his every success in Life.



Shriram Finance Limited

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Website: www.shriramfinance.in | Corporate Identity Number (CIN) - L65191TN1979PLC007874



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CERTIFICATE

Name / Guide Name: Sadipta Kumar Mohanty

Designation: Branch Manager

This is to certify that the project report entitled "A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT" has been prepared by Mr. Debansu Panigrahi (2196322020) under my supervision and guidance from 06 January 2023 to 10 March 2023, for the fulfillment of Master of Business Administration. His field work is satisfactory.

For Samal Auto India Pvt Ltd

Mr. Sadipta Kumar Mohanty
(Branch Manager)

Date: 11/03/2023

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