

Indian Institute of Technology-Guwahati

Guwahati, Assam-781039, India

Phone: 91-361-2582275 Fax: 91-361-2582291

E-mail: rkupadhyay@iitg.ac.in upadhyay.rajesh@gmail.com

Rajesh Kumar Upadhyay Associate Professor

Department of Chemical Engineering

Date: November 10th 2019

To Whom It May Concern

Here with, I certify that Miss Priyambada Prakash, who is a M. Tech student in Chemical and Polymer Engineering of Tripura University, has worked under me on a project titled "Study on CFD Simulation of Fluidized Bed" for a period of Four Weeks starting from May 25th to June 24th 2019.

Rajesh Kumar Upadhyay

P. K. Wadhyay



Indian Institute of Technology - Guwahati

Department of Chemical Engineering, Guwahati – 781 039, Assam, India Dr. Vimal Katiyar Professor

email: vkatiyar@iitg.ernet.in

Tel: +91 361 258 2278 Fax: +91 361 258 2291

June 27, 2019

Certificate of Internship

This is to certify that Ms. Rupashree Sinha, pursuing M. Tech., 1st year in the Department of Chemical Engineering at Tripura University, India has done internship training from 25th May 2019 to 27th June 2019 at "CoE-SusPol" laboratory, IIT Guwahati. Her internship project entitles "Studies on Gel Permeation Chromatography and Microtomy". She has executed her work under the mentorship of Dr. Purabi Bhagabati, a Post-doctoral Fellow in the Department of Chemical Engineering.

During the period of her internship, she was found to be sincere, hardworking, self-motivated and inquisitive. I wish her the very best in all her future endeavors.

Vimal Katiyar



भारतीय प्रौद्योगिकी संस्थान गुवाहाटी

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Dr. Mahuya De Associate Professor Department of Chemical Engineering Email: mahuya@iitg.ernet.in

Phone: +91-361-258-2270 (O) +91-9957172983 (M) Fax: +91-361-258-2291 (O)

Certificate for Summer Trainee

Mr. BISWAJIT SARKAR, M.Tech 2nd year student of Department of Chemical and Polymer Engineering, Tripura University, Tripura, India, has worked as Summer Trainee from 23 June to 26 July, 2019 in our laboratory in Department of Chemical Engineering, IIT Guwahati. He worked in the area of "Synthesis and Characterization of porous carbon from Waste Residue". He was very sincere and has done appreciable amount of work.

Mahuya De

Mahuya De 17/8/19

Dr. Mahuya De

Dr. Mahuya De

Associate Professor
INDIA

AMENDMENT

Is a bonafide record of the work done by

Biswajit Sarkar (1806060006)

fulfilment of the requirements for the award of the degree of Master of Technology and Polymer Engineering of the TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY), during the year 2018-2020.

First Nath

IDENTIFICE)

14/09/2020

Dr. Sachin Bhaladhare

H.O.D(I/C)

Dr. Sachin Bhaladhare
HOD (I/C)
Chemical and Polymer Engg.
Tripura University-799022

Framiner

This is to certify that the project titled CFD MODELING OF A TYPICAL FLUIDIZED

BED COLUMN

is a bonafide record of the work done by

Shubhankar Debnath (018295/2018-19)

In partial fulfillment of the requirements for the award of the degree of Master of

Technology in Chemical and Polymer Engineering of the TRIPURA UNIVERSITY (A

CENTRAL UNIVERSITY), during the year 2020-2021.

Sri. HARJEET NATH

(Supervisor)

Project Viva-voce held on 14/09/2020

Dr. SACHIN BHALADHARE

(HOD)

Dr. Sachin Bhaladhare
HOD (I/C)
Chemical and Polymer Engg.
Tripura University-799022

External Examiner

Internal Examiner

In is to certify that the project titled GASIFICAION STUDIES OF HIGH ASH INDIAN USING ASPEN PLUS SIMULATION is a bonafide record of the work done by

TAMAL RUDRA PAUL (Roll Number: 1806060002)

fulfilment of the requirements for the award of the degree of Master of Technology in and Polymer Engineering of the TRIPURA UNIVERSITY (A CENTRAL ERSITY), during the year 2019-2020.

HARJEET NATH

Supervisor)

DR. SACHIN BHALADHARE

(HOD)

or, Sachin Bhaladhare HOD (I/C) nemical and Polymer Engg. Moura University-799022

TESIS CERTIFICATE

certify thesis entitled "SYNTHESIS AND CHARACTERIZATION OF MASSORBENT CELLULOSE BASED HYDROGEL FOR AGRICULTURAL MASSORBENT CELLULOSE BASED HYDROGEL FOR AGRICULTURAL University) for the award of the degree of Master of Technology (M.Tech) is a masses of research work carried out by her under my supervision. The contents of this in parts, have not been submitted to any other Institute or University for the degree or diploma.

Dr. Sachin Bhaladhare
HOD (I/C)
Chemical and Polymer Engenties and Polymer Tripura University-799022

Dr. Sachin Bhaladhare
Assistant Professor,
Deptt. of Chemical and Polymer Engineering
Tripura University (A Central University).
Surymaninagar-799022, Tripura, INDIA

-799022

14/09/2020

DR. SACHIN BHALADHARE

(Guide)

Department of Chemical and Polymer Engineering

Examiner South

This is to certify that the project titled TEMPERATURE RESPONSIVE CHITOSAN BASED

MANOGEL FOR SENSING AND DRUG DELIVERY is a bonafide record of the

the by

SUSHANTA DHAR (Roll Number: 1806060001)

fulfilment of the requirements for the award of the degree of Master of Technology in and Polymer Engineering of the TRIPURA UNIVERSITY (A CENTRAL ERSITY), during the year 2019-2020.

2020

SACHIN BHALADHARE

(Guide)

Dr. Sachin Bhaladhare
Assistant Professor,
Deptt. of Chemical and Polymer Engineering
Tripura University (A Central University).
Surymaninagar-799022, Tripura, INDIA

Viva-voce held on

DR. SACHIN BHALADHARE

(HOD)

Dr. Sachin Bhaladhare HOD (I/C) Chemical and Polymer Engg. Tripura University-799022

Examiner Examiner

FOLLOW FIRE UF FOR RECOVERY OF SURFACTANT FROM WATER ALONG WITH SPIRAL WOUND RO FOR POTABLE REUSE

Is a bonafide record of the work done by

SUKANTA REANG (Roll Number: 1806060003)

and Polymer Engineering of the TRIPURA UNIVERSITY (A CENTRAL during the year 2018-2020.

Guide)

DR. SACHIN BHALADHARE (HOD)

Dr. Sachin Bhaladhare HOD (I/C) Chemical and Polymer Engg. Tripura University-799022

Programme Viva-voce held on

Examiner

THESIS CERTIFICATE

by RUPASHREE SINHA to the Tripura University (A Central University) for the degree of Master of Technology is a bonafide record of research work carried out by supervision. The contents of this thesis, in full or in parts, have not been submitted to institute or University for the award of any degree or diploma.

Dr. Sachin Bhaladhare
HOD (IIC)
Chemical and Polymer Engel
Trigura University-799022

11-09-2020

3/1/10/2010

DR. SACHIN BHALADHARE

(Guide)

Department of Chemical & Polymer Engineering

Tripura University (A Central University)

Agartala-799022 India

Dr. Sachin Bhaladhare
Assistant Professor,
Deptt. of Chemical and Polymer Engineering
Inpura University (A Central University).
Successional Succession of Contral University (A Central University).

Examiner Dollare