

Heritage Institute of Technology

(An Autonomous Institution)



MaulanaAbulKalam Azad University of Technology, West Bengal

(Formerly Known as West Bengal University of Technology)



REGISTRATION CERTIFICATE

This is to certify that Shri/Smt. **SUDIP KUILA** has been granted registration for Ph.D. program in **AEIE**.

Details of registration are:

Ph.D. Registration no.: PhD/Tech/AEIE007/2020

Date of Enrollment: 20-01-2020

<u>Title of the thesis</u>: Development and Characterization of Clinically Agreeable Exhaled

Breath Sensors for Assessing Asthma and Diabetes.

Supervisor : Dr. Surajit Bagchi

Co-Supervisor 01 : None

Co-Supervisor 02 : None

This registration shall be valid for six years with effect from the date of enrollment.

Registrar

22 hnj 20 20

Date: 16-12-2020

MaulanaAbulKalam Azad University of Technology, West Bengal

(Formerly Known as West Bengal University of Technology)



REGISTRATION CERTIFICATE

This is to certify that Shri/Smt. **SANTU GUIN** has been granted registration for Ph.D. program in **AEIE**.

Details of registration are:

Ph.D. Registration no.: Ph.D/Tech/AEIE005/2018

Date of Enrollment : 09-10-2018

<u>Title of the thesis</u>: Design of MEMS Devices for Detection of Common Blood Related

Diseases by Sensing Non-biological Parameters.

Supervisor : Prof. (Dr.) Madhurima Chattopadhyay

Joint Supervisor : None

Associate Supervisor: None

This registration shall be valid for six years with effect from the date of enrollment.

Registrar



(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: Haringhata, Nadia, Pin-741249

Kolkata Campus: BF-142, SECTOR-I, SALTLAKE CITY, KOLKATA-700 064, (INDIA)

Website: www.wbut.ac.in

Ref. No.:

Date:

Dt: 23/11/2020

Enrollment Certificate for the PhD Program

This is to certify that Mr./Ms. Subhadeep Mondal has been enrolled as a provisional Ph.D scholar in Civil Engineering discipline.

Enrollment number : PHD/TECH/CIE005/2020

Date of enrollment : 05.10.2020

Validity : Two years from date of enrollment.

Name of Supervisor : Prof. Tapas Sadhu

Lahin 23.11 20 20

(Dr. Partha Pratim Lahiri) Registrar

REGISTRAR
Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Kolkata - 700 064

যাদবপুর বিশ্ববিদ্যালয়





*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref. No. 8-7/F/210/80

Date: November 18, 2020

To,
Dr. Avijit Ghosh,
Assistant Professor,
Chemical Engineering Department,
Heritage Institute of Technology,
994 Madurdaha, Anandapur,
Kolkata – 700 107

Dear Sir.

I am hereby to inform you that the Doctorate Committee (Engg. /Pharm.) in its meeting held on 14.02.2020 was resolved, vide Res. No. '6' (d), to appoint you as the Joint Supervisor of Sri Avijit Routh along with Prof. Mebabub Rahaman, Chemical Engineering Department, J.U.

Thanking you,

Yours faithfully,

Samit Pahari ▲ Secretary, F.E.T.

Copy: Records - 2.

Secretary, FET (File No. 25/18/E) (Vide D.C. Res. No. 6 (d) dt. 14.02.2020)

Supervisor/s: Dr. Mehabub Rahaman, Chemical Engineering Department, J.U., Kolkata – 700 032

Sri. Avijit Routh, Barmanikpur, Nagarchak Paschim Midnapore, PIN – 721 101

Established on and from 24th December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6th December, 1955 under Jadavpur University Act, 1955 (West Bengal Act XXXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)

দরভাষ: ২৪১৪-৬০০৮/৬৬৬৬, প্রসারণ: ২২১৫/২৪৪০

Website:www.jadavpur.edu Phone ; 91-33-2414-6008/6666, Ext. ; 2215/2440

দরবার্তা: +৯১-১৩-২৪১৪-৬০০৭

Sn

Fax:91-33-2414-6007

যাদবপুর বিশ্ববিদ্যালয়





*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref. No. 8-7/E/211/20

Date: November 13, 2020

Dr. Avijit Ghosh,

Assistant Professor, Chemical Engineering Department, Heritage Institute of Technology, 994 Madurdaha, Anandapur, Kolkata - 700 107

Dear Sir,

I am hereby to inform you that the Doctorate Committee (Engg. /Pharm.) in its meeting held on 14.02.2020 was resolved, vide Res. No. '6' (c), to appoint you as the Joint Supervisor of Sri Sankhadeep Ghosh along with Prof. Mebabub Rahaman, Chemical Engineering Department, J.U.

Thanking you,

Secretary, F.E.T.

Copy: Records -- 2.

Secretary, FET (File No. 28/18/E) (Vide D.C. Res. No. 6 (c) dt. 14 02 2020)

Supervisor/s: Dr. Mehabub Rahaman,

Chemical Engineering Department, J.U.,

Kolkata - 700 032

Sri. Sankhadeep Ghosh, Vill - Basantapur, P.O. - Paratal, P.S. - Jamalpur, Burdwan East. PIN - 713 408

Sin



Date: 08-July-2021

Ref. AUMP/ASET/CSE/RG/2021/93

То

Dr. Anindita Kundu

Assistant Professor,

Department of Computer Science & Engineering
Heritage Institute of Technology, Kolkata

Dear Madam,

Warm Greetings from Amity University Madhya Pradesh. We hope that you and your family are safe in these unprecedented times.

On behalf of Amity University Madhya Pradesh, I am pleased to inform you that as per your consent letter, departmental research committee has approved your name as co-supervisor of Mr. Somenath Sengupta (Enrolment No: A60236420023), part time research scholar of our department since August 2020. This approval is only for his candidature till he completes his research in our University.

We sincerely hope that your association with us will help our scholar to pursue his research under your guidance and support.

Subhaenda Gaha Neog1

Dr. Subhrendu Guha Neogi Associate Professor, Dept. of CSE, Amity School of Engineering & Technology Amity University Madhya Pradesh



Date: 17-01-2020

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly Known as West Bengal University of Technology)



REGISTRATION CERTIFICATE

This is to certify that Shri/Smt. SUDIPTA ROY has been granted registration for Ph.D. program in Mathematics.

Details of registration are:

Ph.D. Registration no.: PhD/Science/Math008/2018

Date of Enrollment : 07.06.18

Title of the thesis : SOME CONTRIBUTIONS ON VECTOR VARIATIONAL INEQUALITIES AND

VECTOR OPTIMIZATION PROBLEMS UNDER THE GENERALIZED CONVEXITY

ASSUMPTIONS

Supervisor : Dr. Sandip Chatterjee

Joint Supervisor : None

Associate Supervisor : None

This registration shall be valid for six years with effect from the date of enrollment.

Registrar

SL. NO.: AEIE004/2018

Date: 17-01-2020

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly Known as West Bengal University of Technology)



REGISTRATION CERTIFICATE

This is to certify that Shri/Smt. INDRAJIT NASKAR has been granted registration for Ph.D. program in Applied Electronics & Instrumentation Engineering(AEIE).

Details of registration are:

Ph.D. Registration no.: PhD/Tech/AEIE004/2018

Date of Enrollment : 28.09.18

Title of the thesis : DESIGN OF EFFECTIVE SELF TUNING SCHEME AND EXTROCTION OF CONCISE

RULES FOR FUZZY CONTROLLER OF NON LINEAR SYSTEM.

Supervisor : Dr. Arabinda Kumar Pal

Joint Supervisor : Dr. Nandan Kumar Jana

Associate Supervisor : None

This registration shall be valid for six years with effect from the date of enrollment.

Registrar



(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: Haringhata, Nadia, Pin-741249

Kolkata Campus: BF-142, SECTOR-I, SALTLAKE CITY, KOLKATA-700 064, (INDIA)

Website: www.wbut.ac.in

Ref. No.:

Date:

Dt: 19/11/2019

Enrollment Certificate

This is to certify that Sri. / Smt. Sonali Hazra Das has been enrolled as a Probationary Ph.D Student under Maulana Abul Kalam Azad University of Technology, West Bengal in Biotechnology.

His / Her enrollment number is PhD/Tech/BT034/2019 and is valid for two years counting from 13.11.2019. This enrollment number in due course shall be treated as the candidate's Ph.D registration number upon successful completion of the compulsory Ph.D course works as per rules. He / Sheshould follow Ph.D. rules as per new Ph.D guidelines framed by UGC.

Lahm 19.11.19

(Dr. ParthaPratimLahiri) Registrar

Copy forwarded for information:-

- 1. The Candidate
- 2. Dr. Srabanti Basu, Supervisor
- 3. Dr. Bhaswati Chakraborty, Joint Supervisor
- (Formerly West Bengal University of Technology) Harringhate, Nadia-741 249 4. Dr. Sudipta Dey Bandyopadhyay, Associate Supervisor



(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)
Main Campus: NH-12, SIMHAT, HARINGHATA, NADIA, PIN-741249
Kolkata Campus: BF-142, SECTOR-I, SALT LAKE CITY, KOLKATA - 700 064, INDIA
www.wbut.ac.in

Ref. No.:

Date:

Dt: 30/12/2019

Enrollment Certificate

This is to certify that Sri. / Smt. Pratyusha Biswas has been enrolled as a Probationary Ph.D Student under Maulana Abul Kalam Azad University of Technology, West Bengal in Electrical Engineering.

His / Her enrollment number is PhD/Tech/EE055/2019 and is valid for two years counting from 30.12.2019. This enrollment number in due course shall be treated as the candidate's Ph.D registration number upon successful completion of the compulsory Ph.D course works as per rules. He / Sheshould follow Ph.D. rules as per new Ph.D guidelines framed by UGC.

201-/19

(Dr. Partha Pratim Lahiri) Registrar

Copy forwarded for information:-

1. The Candidate

2. Dr. Nabamita Banerjee Roy, Supervisor

3. Dr. Kesab Bhattacharya, Joint Supervisor

4. O/C

Partho Pratim Lahiri
Registrar
Maulana Abul Kalam Azar University
of Technology, West Bengal
promierly Viest Bengal University of Technology
Haringhata, Nadia-741 249



(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: Haringhata, Nadia, Pin-741249

Kolkata Campus: BF-142, SECTOR-I, SALTLAKE CITY, KOLKATA-700 064, (INDIA)

Website: www.wbut.ac.in

Ref. No.:

Dt: 21/06/2018

Enrollment Certificate

This is to certify that Sri. / Smt. Biswajit Maity has been enrolled as a Probationary Ph.D Student under Maulana Abul Kalam Azad University of Technology, West Bengal in Chemical Engineering.

His / Her enrollment number is PhD/Tech/CHE001/2018 and is valid for two years counting from 21.06.2018. This enrollment number in due course shall be treated as the candidate's Ph.D registration number upon successful completion of the compulsory Ph.D course works as per rules. He / She should follow Ph.D. rules as per new Ph.D guidelines framed by UGC.

Indranil Mullheryie

Copy forwarded for information:-

- 1. The Candidate
- 2. Dr. Biswajit Mondal, Supervisor
- 3. Dr. Sunil Baran Kuila, Joint Supervisor
- 4. Dr. Avijit Ghosh, Associate Supervisor
- 5. O/C

(Dr. Indranil Mukherjee)
Registrar (Actg.)
Registrar (Acting)
Maulana Abul Kalam Azad University
of Technology, West Bengal
Haringhata, P.O.-Simhat, Pin-741249

Phone: (033) 2321-0731, 2321 1327, Fax: (033) 2321 7578, 2334 1034



(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: Haringhata, Nadia, Pin-741249

Kolkata Campus: BF-142, SECTOR-I, SALTLAKE CITY, KOLKATA-700 064, (INDIA)

Website: www.wbut.ac.in

Ref. No.:

Dt: 21/08/2018

Enrollment Certificate

This is to certify that Sri. / Smt. Samar Samanta has been enrolled as a Probationary Ph.D Student under Maulana Abul Kalam Azad University of Technology, West Bengal in Chemical Engineering.

His / Her enrollment number is PhD/Tech/CHE002/2018 and is valid for two years counting from 21.06.2018. This enrollment number in due course shall be treated as the candidate's Ph.D registration number upon successful completion of the compulsory Ph.D course works as per rules. He / She should follow Ph.D. rules as per new Ph.D quidelines framed by UGC.

(Dr. Indranil Mukherjee) Registrar (Actg.)

Copy forwarded for information:-

- 1. The Candidate
- 2. Dr. Biswajit Mondal, Supervisor
- 3. Dr. Avijit Ghosh, Joint Supervisor
- 4. Dr. Sunil Baran Kuila, Associate Supervisor
- 5. O/C

Panel of Experts for Thesis Evaluation

Pacific Udaipu Sir,	_	Synaste for The	sis Evaluation Title	ed "Squiamous Technique	Cell Carrine	ma detes	tran' & -
Me	e find the Panel of six aswrenent by ered in the Faculty of	Org	0	Technique " of (Name Departmen	of Candidate) Herr tof Computer	Science Ex	proceery _
S.No.	Name of Expert	Highest Qualification	Designation (Professor/ Associate Professor)	Official Address	Correspondence Address	Contact No. of Expert (Preferably mobile no.)	E-mail ID of Expert
1.	De Kunesh Chandra Tradi	Professor	Professor	Computer Science Conquiter Science Coccater Norda	Andty University	999901320	gmailcon
2.	Du Samue Gopalar			faculty of Cong science & Manager Unweighty, Al	heater tidus	9+12902350	Samu gopslar 2 gmail com
	1			0.000			de neeraphargan

4.	P.V. Verparia	Profision		Department of Computer Science Sandal Patel University, Near Jain Gerasar allabh Vidryanagar 388120	9426533146	
5.	or Atul M Grosa			Department of Computer Science Sandal Baurashtra University University Road, Layhot 360005	9427236866	
6.	Prof Navcen Hemrajani		400	MOD-JECRC Linescity Japus	982903265	naveen-ho yahoo com

Signature of the Supervisor with seal and Date P. 27. 06.18

Name of the Supervisor Da Pou

Note:

- i) The Supervisor shall not submit more than two Names of Experts from the same State.
- ii) An Expert suggested by the Supervisor for Evaluation should not be less than an Associate Professor / Reader
- iii) Out of six names minimum three Experts should be designated as Professor.
- iv) The Expert should not be from the Institute / University and Localize where you are working.
- v) The Name of Experts submitted in the Panel should be from of the University Department / Faculty. (Names of Retired Professors of University Department / Faculty can also be submitted for Thesis Evaluation)

AEIE002/2017

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY WEST BENGAL



REGISTRATION CERTIFICATE

To:

DEBJYOTI CHOWDHURY

QTR. NO. C-44, STREET-2, BLOCK-3, F.B. PROJECT, FARAKKA, MURSHIDABAD, PIN-74221.

Dear Sir/Madam,

I am glad to inform you that you have been granted registration for Ph. D programme under this University in Applied Electronics & Instrumentation Engineering for the Degree of Doctor of Philosophy (Ph. D.).

Your Registration No. PhD/Tech/AEIE002/2017 is with effect from 18.05.17.

This registration shall remain valid for five years with effect from the date of registration as indicated above.

Title of the Thesis

STUDY OF MEMS BASED DEVICES FOR NON – CLINICAL ASSESSMENT OF BIO – MEDICAL NEEDS Dr. Madhurima Chattopadhyay (Supervisor)

(Joint Supervisor)

(Associate Supervisor)

Yours faithfully,

August 02, 2018

Induanil Mukhanjel

Registrar

Maulana Abul Kalam Azad University of Technology, West Bengal

AEIE003/2017

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)



REGISTRATION CERTIFICATE

To:

SANTANU MONDAL

NARIMORE, BURDWAN,
KALNA ROAD, PIN 713101.

Dear Sir/Madam.

I am glad to inform you that you have been granted registration for Ph. D programme under this University in *Applied Electronics & Instrumentation Engineering* for the Degree of Doctor of Philosophy (Ph. D.).

Your Registration No. PhD/Tech/AEIE003/2017 is with effect from 18.05.17.

This registration shall remain valid for five years with effect from the date of registration as indicated above.

Title of the Thesis

STUDIES ON DIFFERENT TYPES OF COMMUTATION TECHNIQUES FOR SENSORLESS BLDC MOTOR DRIVE Dr. Madhurima Chattopadhyay (Supervisor)

(Joint Supervisor)

(Associate Supervisor)

Yours faithfully,

Inducial Makhanjel

August 02, 2018

Registrar

Maulana Abul Kalam Azad University of Technology, West Bengal

BT019/2016

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL



REGISTRATION CERTIFICATE

To

PLABAN CHAUDHURI

UPL 010201, UPOHAR, 2052 CHAK, GARIA, KOLKATA – 700094.

Dear Sir/Madam,

I am glad to inform you that you have been granted registration for Ph. D programme under this University in **BIOTECHNOLOGY** for the Degree of Doctor of Philosophy (Ph. D.). Your Registration No. **PhD/Tech/BT019/2016** is with effect from **31/08/2016**. This registration shall remain valid for five years with effect from the date of registration as indicated above.

Title of the Thesis

PREVALENCE OF METABOLIC SYNDROME

AMONG THE OBSTETRIC POPULATION AND

THE BIRTH OUTCOMES IN KOLKATA, INDIA

Dr. Riddhi Goswami

(Supervisor)

(Joint Supervisor)

(Associate Supervisor)

Yours faithfully,

February 16, 2018

Indraid Mikheyer

Registrar

Maulana Abul Kalam Azad University of Technology, West Bengal BF -142, Sector 1, Salt Lake, Kolkata - 700064

যাদ্বপুর বিশ্বিদ্যালয়



A BURN

*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref No) -7

Date July 26, 2017

To Ankush Chattopadhyay, 49, S. K. Deb Road, "Annapurna " Aprt. Block - B, Flat - 17, Kolkata - 700 048

Sub: Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D.Programme fee of Rs.22000/- (Rupees twenty two thousand only) payable in three semi annual installments (8,000/- + 8,000/-) You may be noted that the date of payment of registration fee will be considered as date of registration

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "STUDY OF ANALOG/RF PERFORMANCES AND LINEARITY, HARMONIC DISTORTION ANALYSIS OF FETS BEYOND SUB-22 NANOMETER TECHNOLOGY NODE FOR SOC APPLICATIONS".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D.Rules and Regulation Please visit our University website www.jadavpur.edu for New Ph.D. Rules and Regulations. For any further clarification you may contact the undersigned

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D rules & regulation.

You are informing to bring the following documents at the time of deposition of Ph.D. programme fee.

1. Original Migration Certificate.

(Dr. B. Karmakar) Principal Secretary, FET

Copy: Secretary, FET (vide Res. No. A (23) of D.C meeting. Dt. 21.06.17)

Records - 2

Supervisor/s -

Prof. Chandan Kumar Sarkar, E.T.C.E. Department, J.U.

Prof. Chayanika Bose, E.T.C.E. Department, J.U.

Dr. Atanu Kundu,

Dept. of Electronics & Communication Engg., Heritage Institute of Technology, Kolkata – 700 107

Sm

th,

Established on and from 24° December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6° December, 1955 under Jadavpur University Act, 1955 (West Bengal Act XXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)

त्त्रहातः २६১५-५००४/६५५५, अनावण २२५४/२५५०

Website:www.jadavpur.edu Phone:

Phone: 91-33-2414-6008/6666, Ext.: 2215/2440 n Fax:91-33-2414-6007

गाम्त्रत तिश्विम्। निश

DR. B.KARMAKAR PRINCIPAL SECRETARY

FACULTY OF ENGINEERING & TECHNOLOGY



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref No D-7 | E 230 | 17 Date: March 20, 2017

Nilanjana Gangopadhyay, Satyam Apartments, 1st Floor 28A, North Purbachal Kalitala Link Road, Kolkata - 700 078

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D. Programme fee of Rs. 22000/- (Rupees twenty two thousand only) payable in three semi annual installments (8,000/- + 8,000/- + 6,000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "ON THE DENSITY OF POINTS IN THE EUCLIDEAN SPACE OF DIFFERENT DIMENSIONS".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D. Rules and Regulation Please visit our University website www.jadavpur.edu for New Ph.D. Rules and Regulations. For any further clarification you may contact the undersigned.

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

Principal Secretary, FET

Copy Secretary, FET (vide Res. No. B (12) of D.C meeting. Dt. 27.09.16) Records - 2

Supervisor/s -Prof. Suranjan Ghosh, Computer Sc. & Engineering Department, J.U.

> Prof. Subhashis Majumder, Computer Sc. & Engineering Department, Heritage Institute of Technology, Kolkata - 700 107

Sm

Established on and from 24° December, 1955 vide Notification No.10986-Edu/1U-42/55 dated 6° December 1955 under Jadavpur University Act, 1955 (West Bengal Act XXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)

東京町(前: +33-25-2538-2004

E-mail:secretary fet@admin.jdvu.ac.in

Website:www.jadavpur.edu Phone : 91-33-2414-6008/6666, Ext. : 2215/2410

Fax:91-33-2414-600

1

BT014/2016

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL



REGISTRATION CERTIFICATE

To:

RIMASHREE BAISHYA

H.NO.- 52, BHAGADUTTAPUR, GAROKUCHI PATH, BELTOLA, GUWAHATI – 781028. ASSAM.

Dear Sir/Madam,

I am glad to inform you that you have been granted registration for Ph. D programme under this University in **BIOTECHNOLOGY** for the Degree of Doctor of Philosophy (Ph. D.). Your Registration No. **PhD/Tech/BT014/2016** is with effect from **18/01/2016**. This registration shall remain valid for five years with effect from the date of registration as indicated above.

Title of the Thesis

ANTI-BIOFILM ACTIVITY INVESTIGATIONS OF SOME COMMONLY USED PLANTS ON BIOFILM PRODUCING BACTERIA

Dr. Soma Banerjee

(Supervisor)

(Joint Supervisor)

Dr. Dípankar Chaudhurí

(Associate Supervisor)

Yours faithfully,

November 29, 2016

Registrar

Maulana Abul Kalam Azad University of Technology, West Bengal BF -142, Sector 1, Salt Lake, Kolkata - 700064

BT005/2015

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL



REGISTRATION CERTIFICATE

To:

BANHISHIKHA SINGH

KATJURIDANGA, TARAGOTI SAMANTA ROAD, BANKURA – 722102.

Dear Sir/Madam,

I am glad to inform you that you have been granted registration for Ph. D programme under this University in **BIOTECHNOLOGY** for the Degree of Doctor of Philosophy (Ph. D.). Your Registration No. **PhD/Tech/BT005/2015** is with effect from **21/04/2015**. This registration shall remain valid for five years with effect from the date of registration as indicated above.

Title of the Thesis

AMELIORATIVE EFFECT OF SALT-COMBINATIONS
ON METAL STRESSED RICE SEEDLINGS

Dr. Soma Banerjee

(Supervisor)

(Joint Supervisor)

(Associate Supervisor)

Yours faithfully,

November 29, 2016

Registrar

Maulana Abul Kalam Azad University of Technology, West Bengal BF -142, Sector 1, Salt Lake, Kolkata - 700064

Anosida Prop du

INDIAN SCHOOL OF MINES, DHANBAD <u>Admn. Deptt; Academic Section</u>

No.633017/EE/Acad/2016

Dated: 22.06.2016

To, Ms Priyadarshiny Dhar GD-40, Rajdanga Main Road, Kolkata - 700 107

Sub: Registration as Part time Research Scholar for Ph.D Programme.

This has reference to your application dated 25.04.2016 for Part Time Research Scholar; I am directed to inform you that on the basis of recommendation of DSC meeting held on 10.06.2016, the Competent authority has approved your Ph.D Registration as a Part Time Research Scholar in the Dept. of Electrical Engineering w.e.f 25.04.2016, subject to ratification in the next Academic Council Meeting as per details given below:

- 1. Topic of Research: "Current Methods in Bio-electrical Signal Classification"
- Name of Guide(s): Dr V Mukherjee, Assistant Professor, Electrical Engineering Ext.Guide: Dr Saibal Dutta, Associate Professor, Kolkata
- 3. To get yourself registered for the programme, you are advised to pay Rs.20000/- (including one time charges Rs. 1400/-, yearly fees Rs.13, 600/- refundable caution money Rs.5000/-). The fee is to be paid by demand draft drawn in favour of the Registrar, Indian School of Mines, Dhanbad payable at State Bank of India, ISM Campus Branch (Code No.1641) within 30 days of issue of this letter. The fees of for the subsequent years should be paid during the month of **April** every year (Rs, 13,600/-).
- 4. You have to clear the following two Postgraduate courses with minimum C Grade within two years from the date of confirmation of registration. According to Rule 3(d) (General Guidelines), if you fail to obtain minimum of C grade in any course within the stipulated period your registration will stand cancelled

SNo. Subject Code
1. MSC 41000 Research Methodology & Statistics
2. HSC 61153 Research and Technical Communication

- 5. You are also required to submit Annual Progress report through your internal guide/External guide to the undersigned at the end of each year, failing which your registration will be cancelled.
- 6. Please bring with you all original certificates for verification in original.

Assistant Registrar (Exam&Acad)

CC: HOD (EE)

Dr V Mukherjee, Guide, Electrical Engineering

Dr Saibal Dutta, Ext, Guide Dept. of Electrical Engineering, HIT, Kolkata



OFFICE OF THE DEAN (ACADEMIC) INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR (Formerly Bengal Engineering and Science University, Shibpur) P.O. Botanic Garden, Shibpur, Howrah - 711103, INDIA

Phone 033-26684561 Fax 033 26682916 E-mail dean ac@ilests ac in Website http://www.ilests.ac.in

CERTIFICATE OF REGISTRATION FOR PhD PROGRAMME

No: R/2016/48

Date 19-05-2016

This is to certify that Mr. SAYANTANI BHATTACHARYA is registered under this Institute as per following details

Name SAYANTAN' BHATTACHARYA

Address FLAT NO 8/12 M.I.G (U) BIRATI HOUSING ESTATE

NIMTA

City - KOLKATA

State - W B

Pin - 700049

Registration No: PhD/R/2016/0048

Date of Registration 30-03-2016

Faculty BASIC AND APPLIED SCIENCES

Department/School/Centre CHEMISTRY

Supervisor(s)

1 Dr. JAYAT! DATTA

DEPARTMENT OF CHEMISTRY-IIEST, SHIBPUR

HOWRAH-WEST BENGAL-711103

2 Dr. PARTHA BHATTACHARYYA

DEPT OF ELECTRONICS & TELECOMM. ENGG., IIEST, SHIBPUR---RESI.: - KHUSHIGALI, HALDARPUKUR,

P.C. BURASHIBTALA

CHINSURAH-WEST BENGAL-712105

Registration Validity : 29-03-2021 (Renewable as per PhD regulation) Anit Kom Da Amit Kumar Das Dean (Academic)

19/05/2016

No. R/2016/48 (7).

Date 19-05-2016

Copy forwarded for information and necessary action to :

- 1. Candidate
- 3 2. Supervisor 5
 - 3 Head of The Department.

CHEMISTRY

- 4. Finance Officer
- 5. Registrar

ion extended upto 29.03.2022 DC held on 25.03.2021 ad : Intimate the Supervisor(s) & Scholar

Dean (Academic) 30 06 202

যাদবপুর বিশ্বিদ্যালয়





*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref. No. D-7/E/3/2/16 Date: April 22, 2016

To Ankita Mazumder, Trayee Apartment (1st Floor), Modern Park, 20 – B Central Road, (Near Kadamtala Rickshaw Stand), Santoshpur, Kolkata – 700 075

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D.Programme fee of Rs.14000/- (Rupees Fourteen thousand only) payable in three semi annual installments (5,000/-+5,000/-+4,000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "STUDIES ON ADVANCED OILY WASTEWATER TREATMENT PROCESS".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D.Rules and Regulation Please visit our University website www.jadavpur.edu for New Ph.D. Rules and Regulations. For any further clarification you may contact the undersigned.

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

You are informing to bring the following documents at the time of deposition of Ph.D. programme fee.

1. Original Migration Certificate.

(Dr. B. Karmakar) Principal Secretary, FET

Copy: Secretary, FET (vide Res. No. B (22) of D.C meeting. Dt. 27.01.16

Kolkata - 700 107

Records - 2

Supervisor/s - P

Prof. Chiranjib Bhattacharjee, Chemical Engg. Department, J.U.

Dr. Dwaipayan Sen, Department of Chemical Engineering, Heritage Institute of Technology,

Sm

yl.

Established on and from 24th December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6th December, 1955 under Jadavpur University Act, 1955 (West Bengal Act XXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)



OFFICE OF THE DEAN (ACADEMIC) INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR (Formerly Bengal Engineering and Science University, Shibpur) P.O. Botanic Garden, Shibpur, Howrah - 711103, INDIA

Phone: 033-26684561 Fax: 033 26682916 E-mail: dean.ac@iiests.ac.in Website: http://www.iiests.ac.in

CERTIFICATE OF REGISTRATION FOR PhD PROGRAMME

No: R/2015/86

Date: 27-10-2015

This is to certify that Mr. SOUVIK BASU is registered under this Institute as per following details:

Name: SOUVIK BASU

Address: 78/1, N.S.C BOSE ROAD

City - KOLKATA

State - W.B

Pin - 700040

Registration No: PhD/R/2015/0086 Date of Registration: 26-03-2015

Faculty: ENGINEERING AND TECHNOLOGY

Department/School/Centre: COMPUTER SCIENCE & TECHNOLOGY

Supervisor(s):

1 Dr. SIPRA DAS BIT

FLAT F-3,50/A COLLEGE ROAD-B. GARDEN

HOWRAH-WEST BENGAL-711103

2 Dr. SIULI ROY

ASSOCIATE PROFESSOR, DEPT.OF MCA-HERITAGE INSTITUTE OF TECHNOLOGY KOLKATA-700107

Registration Validity: 25-03-2020 (Renewable as per PhD regulation)

Amit Kumar Das Dean (Academic)

27/10/15

No: R/2015/86 (7)

Date: 27-10-2015

Copy forwarded for information and necessary action to :

- 1. Candidate.
- 2. Supervisor(s)
- 3. Head of The Department,

COMPUTER SCIENCE & TECHNOLOGY

- 4. Finance Officer
- 5. Registrar

शास्त्रत तिथातिकाानश

DR. B.KARMAKAR PRINCIPAL SECRETARY FACULTY OF ENGINEERING & TECHNOLOGY



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Date: June 5, 2015

Sri Hareram Lohar, C/o Dr. Anirban Mitra, Department of Mechanical Engineering, Jadavpur University, Kolkata - 700 032

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D. Programme fee of Rs.22000/- (Rupees twenty two thousand only) payable in three semi annual installments (8,000/-+8,000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "Static and Dynamic behavior of Axially Functionally Graded Structural Elements with Different Boundary Conditions".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D.Rules and Regulation Please visit our University website www.jadavpur.edu for New Ph.D. Rules and Regulations. For any further clarification you may contact the undersigned

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

(Dr. B. Karmakar) Principal Secretary, FET

Phone: 91-33-2414-6008/6666. Fxt - 2214/2448

Copy: Secretary, FET (vide Res. No. B (1) of D.C meeting. Dt. 24.03.15

Records - 2

Dr. Anirban Mitra, Supervisor/s-

Mechanical Engg. Dept., J.U.

Dr. Sarmila Sahoo

Dept. of Civil Engg.

Heritage Institute of Technology, Kolkata - 700 107

Sm

যাদ্বপ্র বিশ্বিদ্যালয়

DR. B.KARMAKAR
PRINCIPAL SECRETARY
FACULTY OF ENGINEERING & TECHNOLOGY



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref. No D - 7/E 200 16
Date: March 16, 2016

To Puja Basu Chaudhuri, 12/2, Avenue East, Modern Park, Santoshpur, Kolkata – 700 075

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D. Programme fee of Rs.22000/- (Rupees twenty two thousand only) payable in three semi annual installments (8.000/- + 8.000/- + 6.000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "STATIC AND DYNAMIC BEHAVIOR OF STIFFENED COMPOSITE HYPAR SHELLS WITH CUTOUT".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D.Rules and Regulation Please visit our University website www.ladavpur.edu for New Ph.D. Rules and Regulations For any further clarification you may contact the undersigned.

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

(Dr B Karmakar) Principal Secretary, FET

Copy Secretary, FET (vide Res. No. B (14) of D.C meeting. Dt. 27.01.16
Records - 2
Supervisor/s - Dr. Anirban Mitra,
Mechanical Engg Department, J.U.

Dr. Sarmila Sahoo, Dept. of Civil Engg., Heritage Institute of Technology, Kolkata - 700 107

Sm



याम्वप्त विश्वविक्रावश

DR. B.KARMAKAR PRINCIPAL SECRETARY FACULTY OF ENGINEERING & TECHNOLOGY



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref No D-7/E/561/14 Date July 8, 2014

To Sri Sabyasachi Chatterjee. Electronics and Communication Engineering Dept. Heritage Institute of Technology. Chowbaga Road, Anandapur. Kolkata – 700 107

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph.D. Programme fee of Rs.22000/- (Rupees twenty two thousand only) payable in three semi annual installments (8,000/- + 8,000/- + 6,000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

. The approved title of your thesis is: "Some Studies on Spectrum Sensing & Primary User Detection Techniques for Enhanced Performance of Cognitive Radio Networks".

if the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D. Rules and Regulation Please visit our University website www.jadavpur.edu.tor.new. Ph.D. Rules and Regulations For any further clarification you may contact the undersigned

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

You are informing to bring the following documents at the time of deposition of Ph D programme fee

1. Original Migration Certificate

(Dr. B. Karmakar.) Principal Secretary, FET

Copy Secretary, FET (vide Res. No. B (11) of D.C meeting, Dt. 29 05 14)
Records - 2
Supervisor/s - Prof. (Dr.) Mita Nasipuri,
Computer Sc. & Engg. Dept., J.U.

ECE Dept HIT Kolkata Communication Address: P 284, C.I.T. Road, Scheme No. – IV M; Kolkata PIN – 700 054

Sm

* Established on and from 24° December, 1955 vide Notification No. 10986-Edn/U-42-55 dated 6° December, 1953 under Jadaspur University Act, 1965 (West Bengal Act XXXIII of 1955) followed by Jadaspur University Act, 1961 (West Bengal Act XXIII of 1961)

मृतकाय: २४३४-७००४/७७७७, टामात्रप: २२३४/२४४० मृतकार्था: +৯১-७०-२४३४-७००५ Website:www.jadavpur.edu

Phone: 91-33-2414-0000-6666, Ext.: 2215/2448 Fax:91-33-2414-6007

E-mail:secretary_fet@admin.jdvn.ac.in

DR. B. KARMAKAR PRINCIPAL SECRETARY



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

FACULTY COUNCIL OF ENGINEERING & TECHNOLOGY

Rol. No. D -7/E/410/14. Date: May 21, 2014

Sri Pradip Saha, 4 No. Matrisadan Road, P.O. & P.S. - Ashoke Nagar, Dist. - 24 Pgs.(N) PIN - 743 222

Sub : Ph.D. (Engineering) Registration.

With reference to your application for registration to Ph.D. (Engineering) degree, you are hereby informed that you have been permitted to register your name on payment of requisite Ph D Programme fee of Rs.22000/- (Rupees (wenty two thousand only) payable in three semi annual installments (8.000). three semi annual installments (8,000/- + 8,000/- + 6,000/-). You may be noted that the date of payment of registration fee will be considered as date of registration.

Registration shall remain valid for five years from the date of registration. The period of validity may be extended on sufficient grounds, if the Doctorate Committee satisfied. But such extension shall not exceed two years. Such application for extension duly forwarded by the supervisor/s shall have to be submitted before expiry of the validity of registration.

The approved title of your thesis is: "Efficient Electronic Tongue Signal Processing Techniques for Tea Quality Estimation".

If the registration fee is not paid within a month from date of issue of this letter, your application may be treated as cancelled. Your research will be governed by this New Ph.D. Rules and Regulation Please visit our University website www.jadavpur.edu for New Ph.D. Rules and Regulations. For any further clarification you may contact the undersigned.

You are directed to complete 2 (Two) course work within a maximum period of two years from the date of registration as per Revised New Ph. D. rules & regulation.

> (Dr. B. Karmakar) Principal Secretary, FET

Copy: Secretary, FET (vide Res. No. B (9) of D.C meeting. Dt. 24.03.14) Records - 2

Supervisor/s -

Dr. Bipan Tudu.

Dept. of Instrumentation & Electronics Engg, J.U. Saltlake, 2nd Campus, Kolkata - 700 098

Dr. Santanu Ghorai,

Deptt. Of AEIE.

Heritage Institute of Technology,

Kolkata - 700 107

Sm

Phone :2414-6666(Extn. : 2215/2440

Established on and from 24th December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6th December, 1955 under Jadaypur University Act, 1955 (West Bengal Act XXXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)

Homi Bhabha National Institute

Recommendations of the Viva Voce Committee

As members of the Viva Voce Committee, we certify that we have read the dissertation prepared by Anirban De entitled "A Novel scheme for DSP based Power Converter Control" and recommend that it may be accepted as fulfilling the thesis requirement for the award of Degree of Doctor of Philosophy.

K. Snivaghr-	- 7/9/2016
Chairman - Dr. D.K. Srivastava	Date
Guide/Convener - Dr. Debranjan Sarkar	07/09/2016 Date
Anshuman shukla Examinar - Prof. Anshuman Shukla	07/09/16 Date
- Comment	07/09/2016
Member 1 - Dr. S.V.G. Ravindranath - R. Barat	Date 07/09/2014
Member 2 - Dr. Partha Barat	Date 07/9/2016
Technology Adviser - Shri Suhmial Saha	Date

Final approval and acceptance of this thesis is contingent upon the candidate's submission of the final copies of the thesis to HBNI.

I hereby certify that I have read this thesis prepared under my direction and recommend that it may be accepted as fulfilling the thesis requirement.

Date: 07/09/2016

Place: Kolkata

Seuleen. Guide

Homi Bhabha National Institute

Recommendations of the Viva Voce Committee

As members of the Viva Voce Committee, we certify that we have read the dissertation prepared by Biswajit Sarkar titled "Localization of mobile robots in indoor environments using laser range data" and recommend that it may be accepted as fulfilling the thesis requirement for the award of Degree of Doctor of Philosophy.

C) K. Saveghv-	8/42016
Chairman: Prof. D. K. Srivastava	Date:
Barbeece	05/04/16
Guide/Convener: Prof. Debranjan Sarkar	Date:
K. Madhave Kuit	5/4/16
Examiner: Prof. K. Madhava Krishna	Date:
Alox Counter.	05-04-2011
Member 1: Prof. Alok Chakrabarti	Date:
Antal	5.4.16
Member 2: Prof. Prabir K. Pal	Date:

Final approval and acceptance of this thesis is contingent upon the candidate's submission of the final copies of the thesis to HBNI.

I hereby certify that I have read this thesis prepared under my direction and recommend that it may be accepted as fulfilling the thesis requirement.

Date: 08/04/2016
Place: KOKata

Seelee .