



Sl. No. 0814

# VIDYASAGAR UNIVERSITY

বিদ্যাসাগর বিশ্ববিদ্যালয়

Midnapore- 721 102 West Bengal

Registration No. 0814 / Ph.D. (Arts/ Com./ Sc.)

To : Sri/Smt. Debasish Aich  
16 NOU Building lane, Rajabazar  
Midnapore - 721101

Date 28.12.2015

Dear Sir/Madam,

I am directed to inform you that you have been granted Registration with effect from 11.06.14 for the Ph. D. Degree of this University in Physics in accordance with the UGC Regulation, 2009.

Title "Nanoparticle Biomolecule Interaction: Nanotechnology to Nanotoxicology"

Name of the Supervisor (s)  
1. Dr. Satyajit Saha  
2. Dr. Tapanendu Kamilya  
3.



  
Registrar

Registrar  
Vidyasagar University  
Midnapore - 721102



# VIDYASAGAR UNIVERSITY

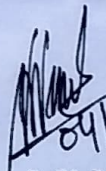
P.O. : Vidyasagar University, Midnapore - 721 102, Dist.: Paschim Medinipur.

Date : 04.08.2021

## PROVISIONAL CERTIFICATE

This is to certify that *Debasish Aich* has been awarded Ph. D. Degree provisionally on 03.08.2021 in *Physics* under the faculty of *Science* in accordance with the provisions of the Ph.D. Regulations, 2009 of the UGC for the thesis entitled " **INTERACTION OF METAL AND METAL-OXIDE NANOPARTICLES WITH PROTEINS/ENZYMES**". The candidate will be formally awarded the degree in the next Convocation of the University.



  
04/08/21  
(Dr. J. K. Nandi)  
Registrar

Registrar  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W.B.



**NARAJOLE RAJ COLLEGE**  
(NAAC Accredited 'B' Grade Govt. Aided College)  
NARAJOLE: PASCHIM MEDINIPUR: WEST BENGAL: Pin-721211  
Phone and Fax: +91- 9933881131: E-mail: [narajoleracollege@rediffmail.com](mailto:narajoleracollege@rediffmail.com)  
Website: <http://www.narajolerajcollege.ac.in>



---

---

**DEPARTMENT OF PHYSICS**

---

---

**From: Dr. Tapanendu Kamilya**  
**Assistant Professor**  
**Department of Physics**

**Dated: 05.11.2020**

*Certificate*

This is to certify that the thesis titled "INTERACTION OF METAL AND METAL OXIDE NANOPARTICLES WITH PROTEINS/ENZYMES" is submitted by Mr. Debasish Aich, who got his name registered for the award of Ph. D. (Science) of Vidyasagar University [Registration No. 0814 / Ph.D. (Sc.), Date: 11.06.2014]. The work described in this thesis is absolutely based upon his own work, carried under supervision of me and Professor Satyajit Saha, Vidyasagar University and neither this thesis nor any part of it has been submitted for any degree/diploma or any other academic award anywhere before.

*Tapanendu Kamilya*  
(TAPANENDU KAMILYA) 5/11/2020

Signature of Supervisor  
with date & official seal

**DR. TAPANENDU KAMILYA**  
**Assistant Professor**  
**Department of Physics**  
**Narajole Raj College**  
**Narajole, Paschim medinipur**