

# UNIVERSITY OF NORTH BENGAL

Dr. B. BASU  
Professor of Chemistry  
DEPARTMENT OF CHEMISTRY  
North Bengal University,  
Darjeeling – 734 013  
India



Phone: +91 353 2776 381  
Fax: +91 353 2699 001  
Cell: +91 9434428477  
Email: basu\_nbu@hotmail.com

## CERTIFICATE

I certify that Debasish Sengupta has prepared the thesis entitled “**PREPARATION, CHARACTERIZATION OF BIMETALLIC NANOPARTICLES SOAKED ON POLY-IONIC RESINS AND THEIR CATALYTIC APPLICATIONS**”, for the award of Ph.D. degree of the University of North Bengal, under my guidance. He has carried out the work at the Department of Chemistry, University of North Bengal.

**Dr. Basudeb Basu**

Professor of Chemistry  
Department of Chemistry  
University of North Bengal  
Darjeeling-734013  
West Bengal  
India

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