

Corresponding Address

Department of Chemistry
Majuli College, Kamalabari
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EDUCATION

- 2015-2019 **Ph. D., Synthetic Organic Chemistry**
CSIR-North East Institute of Science and Technology (Gauhati University)
Thesis title: *“Study on some furan fused heterocycles and related compounds of biological importance”*
Supervisor: Dr. P. J. Bhuyan
- 2012-2014 **Master of Science (Organic Chemistry)**
CGPA=7.47, Department of Chemistry, Gauhati University,
Guwahati, Assam, India
- 2009-2012 **Bachelor of Chemistry**
First Class (76%), Bahona College, Dibrugarh University
Assam, India

PROFESSIONAL EXPERIENCE

- 2019-2020 ***Post doctoral Experience***
Research Associate, CSIR-NEIST, Jorhat, India
Advisor: **Dr. Subrata Ghosh**
- Crop protection chemicals: Synthesis of Penoxsulum
- 2015-2019 ***Ph.D Research Fellow***, CSIR-NEIST, Jorhat, India
Advisor: **Dr. P. J. Bhuyan**
- Completed the synthesis of dihydrofuropyrimidine using nitrogen ylides.
 - Completed the synthesis of well functionalized furopyrimidine and indenofurans using DMSO-I₂ system *via* Sp³ CH activation.
 - Completed the synthesis of oxoacetamidines from readily accessible starting material.
- 2014 ***M. Sc. Project***, Gauhati University, Guwahati, India
Advisor: **Prof. Dilip Kumar Kakati**

- Worked on the project entitled “*Synthesis and Characterization of Graphene oxide based Alkyd resin nanocomposite*”

CURRENT POSITION

Working as an Assistant Professor in the Department of Chemistry, Majuli College from 25/02/2021 to present.

OTHER EXPERIENCE AND TECHNICAL SKILLS

- Experience with purification and separation techniques pertinent to synthetic organic chemistry
- Expertise in analysis of compounds by NMR, HRMS, FTIR and UV
- Profound efficiency in handling of hygroscopic, air sensitive reagents and reactions
- Identification of research problems and resolving them independently
- Familiar with Microsoft Office, Chem. Draw, Mestrenova, etc
- Excellent communication and presentation skills in both oral and written form

PEER REVIEWED PUBLICATIONS

1. “*Regioisomeric Synthesis of Dihydrofuro[2,3-d]pyrimidines in a Diastereoselective manner Involving Nitrogen Ylides in One-pot Three-component Reaction*”. **Leema Dutta**, Meenakshi Sharma, Pulak J. Bhuyan *Tetrahedron* **2016**, 72, 6654-6660.
2. “*One-pot Three-component Reaction of Barbituric acids, Aldehydes and 4-Hydroxycoumarins: Synthesis of Some Novel Functionalized Furo[2,3-d] pyrimidines*”. **Leema Dutta** and Pulak J Bhuyan *Chemistry Select* **2016**, 1, 5944–5947.
3. “*Synthesis of highly functionalized indeno[1,2-b]furans*” **Leema Dutta** and Pulak J Bhuyan *Tetrahedron Letters* **2017**, 58, 3545–3548.
4. “*One-Pot Synthesis of Unsymmetrical Bis(4-Hydroxycoumarin-3-yl)methanes*” Sinki Kolita, **Leema Dutta**, Pankaj Das, Pulak J Bhuyan *Synlett*, **2017**, 28, 2291–2294.
5. “*Copper catalysed oxidative synthesis of 2-oxo-acetamidines from one pot three component reaction of aryl methyl ketones, secondary amines and anilines*” **Leema Dutta** and Pulak J Bhuyan *Tetrahedron*, **2018**, 74, 5770-5778.

CONFERENCE PRESENTATIONS / WORKSHOP ATTENDED:

- National Conference on **NFCFA 2015**, BITS PILANI KK Birla Goa Campus, Goa, on 18th-19th Dec 2015.
- **MRSI symposium**-2016 on “Advanced Materials for Sustainable Applications” organized by CSIR-NEIST, Jorhat, IIT-Guwahati and Tezpur University, Tezpur on 18-21 February 2016, at CSIR-NEIST, Jorhat, Assam.
- National Symposium on Natural Products: Prospects & Perspectives [**NPPP- 2016**] on March 21-22, 2016, CSIR-NEIST, Jorhat, Assam.
- **20th CRSI Symposium** held on 2nd-5th February at Gauhati University, Guwahati.
- Attended national workshop on Spectroscopic Techniques (**WoST 2019**) at Sathyabhama Institute of Science & Technology, Chennai, India

TEACHING EXPERIENCE:

Worked as a guest faculty (Chemistry) at H. R. H. Prince of Wales Institute of Engineering & Technology, Assam, India, since 02/08/2017 to 05/04/2019

FELLOWSHIPS AND AWARDS

1. Qualified State Level Eligibility Test in the year 2015-2016.
2. Got best District Youth award organized by Nehru Yuva Kendra, Jorhat, Assam.
3. Got best Debater award in State level debate competition, Jorhat, Assam.
4. Secured 8th rank in the B.Sc. (1+1+1) examination (Dibrugarh University, Assam).
5. Best graduate of the year 2012 (B.Sc level).

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