

Prof. Uday Shankar Chakraborty

Department of Mathematics

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Education

2010: **PhD in Mathematics** from Assam University, Silchar

2005: Qualified **CSIR-UGC NET for JRF** conducted by CSIR

2005: Qualified GATE with **AIR 178**

2004: **M.Sc. in Mathematics** from Assam University securing **first class first position (Gold Medal)**

2002: B.Sc. (**Best Graduate in Science**) with honours in Mathematics from S.S. College, Hailakandi under Assam University, Silchar with a **Gold Medal**

Teaching experience

June 27, 2005—May 16, 2007: **Guest Lecturer**, Department of Mathematics, S.S. College, Hailakandi

May 17, 2007---November 10, 2008: **Lecture**, Department of Mathematics, S.S. College, Hailakandi

November 11, 2008---May 16, 2019: **Assistant Professor**, Department of Mathematics, Assam University, Silchar

May 17, 2019---May 16, 2022: **Associate Professor**, Department of Mathematics, Assam University, Silchar

May 17, 2022---Till date: **Professor**, Department of Mathematics, Assam University, Silchar

Area of Research

Functional Analysis, Geometry of Banach Spaces, Non-commutative Algebra

Selected Publications:

1. Chakraborty U.S.: Localized Bishop-Phelps-Bollobas type properties for minimum norm and Crawford number attaining operators, **Adv. Oper. Theory**, 25, 2025.
2. Chakraborty U.S.: Weakening of local Bollobas type property and geometry of Banach spaces, **Acta Sien. Math.**, 90, 2024, 91-108.
3. Chakraborty, U.S.: A review on the closed graph theorem and the open mapping theorem via finite dimensionality, **RMS Newsletter**, 34(3), 2023, 33-35.
4. Chakraborty U.S.: Some Bishop-Phelps- Bollobas type properties in Banach spaces with respect to minimum norm of bounded linear operators, **Ann. Funct. Anal.** 12, 2021, 1-15.
5. Chakraborty U.S., On a generalisation of Local Uniform Rotundity, **Indian J. Pure Appl. Math.**, 52(2), 2021, 439-448.
6. Chakraborty U.S., Convexity and best approximation in Banach spaces, **Rendiconti del Circolo Matematico di Palermo Series 2**, 71(1), 2021, 247-258.
7. Chakraborty, U.S.: Remarks on minimum norm attaining operators, **J. Math. Anal. Appl.**, 492(2), 2020, 124492.
8. Bhattacharjee A., Chakraborty U.S., Ring endomorphisms satisfying the central reversible property, **Proc. India J. Math.**, 130(1), 2020, 1-22.
9. Bhattacharjee A., Chakraborty U.S., Reflexive property on rings with involution, **Asian-European J. Math.**, 12(7), 2019, 1-18.
10. Bhattacharjee A., Chakraborty U.S.: On some generalizations of reversible and semicommutative rings, **Int. Elect. J. Algebra**, 22, 2017, 11-27.
11. Chakraborty U.S., On some classes of reflexive rings, **Asian- European J. Math.**, 8(1), 2015, 1-18.
12. Chakraborty U.S., Das, K., On Nil-Symmetric Rings, **J. Math.**, 2014, 7 pages.

Ph.D. produced:

1. Krishnendu Das, A study on some classes of symmetric rings (awarded on 14.08.2028).
2. Arnab Bhattacharjee, A study on some classes of rings and semirings related to reflexive rings (awarded on 15.05.2019).

Other Academic Activities

1. Taught a course on Real Analysis in an MTTs Overture program held at Midnapore city College and Garhbeta College during 2-4 December, 2024.
2. Taught a course on Foundations of Mathematics in Mathematical Nurture Program for Undergraduates organized by Department of Mathematics, G.C. College, Silchar funded by (HBCSE), TIFR, Mumbai during 21-25 October, 2024.
3. Taught a course on Foundations of Mathematics in an InitMath program organized by MTTs Trust funded by NBHM at Sidho-Kanho-Birsa University, Purulia, West Bengal during 17-22 September, 2024.
4. Taught a course on Foundations of Mathematics in Online Foundation Course in Mathematics funded by NBHM during 20-31 August, 2024.
5. Taught a course on Real Analysis in an InitMath program organized by MTTs Trust funded by NBHM at Sikkim Manipal Institute of Technology, Majitar, Sikkim during 26-31 December, 2023.
6. Taught a course on Foundations of Mathematics in Online Foundation Course in Mathematics funded by NBHM during 20 August-2 September, 2023.
7. Taught a course on Real Analysis in a summer camp (Level-O) organized by MTTs Trust funded by NBHM at IIT (ISM) Dhanbad during 29 May-11 June 2023.
8. Taught a course on Real Analysis in an InitMath program organized by MTTs Trust funded by NBHM at ICFAI University, Tripura during 2023.
9. Taught a course on Real Analysis in an InitMath program organized by MTTs Trust funded by NBHM at Don Bosco University, Assam during 24-29 September 2022.
10. Taught a course on Group Theory in a summer camp (Level-O) organized by MTTs Trust funded by NBHM at IIT, Ropar, Punjab during 6-18 June 2022.
11. Taught a course on Real Analysis online organized by MTTs Trust funded by NBHM during 2022.
12. Taught a course on Measure Theory in AFS-II organized by Department of Mathematics, Assam University, Silchar and funded by National Centre for Mathematics during 4-30 June, 2018.
13. Given an invited talk on Metric Spaces in a three-day workshop on Mathematical Methods organized by Department of Mathematics, S.S. College, Hailakandi and funded by DBT during January 28-30, 2014.

14. Given an invited talk on Calculus and related topics at Department of Mathematics, Netaji Subhash Mahavidyalaya, Udaipur, Tripura on December 27, 2013.