Faculty Profile
Santipur College
Department of Mathematics

General Information

Name	Dr. Indrani Dutta
Designation	Assistant Professor in Mathematics
Date of joining	07.08.2024
Address	Ichapur, Jatin Das Road, P.O.-Nawabganj, P.S.- Noapara, Pin-743144, North 24 Pargana, W.B.
Contact E-mail	Indrani.jumath@gmail.com
Academic Qualification	M.Sc, Ph.D

Research And Publication

Area of Specialization	Ternary semigroup
Research interest	Algebra and Graph Theory

Paper Publication			
Sl. No.	Date	Title	Publisher/ Other Information
1	2017	Globally determined ternary semigroup	Asian-European Journal of mathematics Volume-10 Authors: S.Kar, I. Dutta
2	2020	Global determinism of ternary semillatices	Asian-European Journal of Mathematics Volume 13 Authors: S.Kar, I. Dutta

3	2020	Structures of ternary semigroup of mapping	Lobachevskii Journal of Mathematics Volume 41 Authors: S. Kar, I. Dutta, K. P. Shum
4	2021	Soft ideals of soft ternary semigroups	Heliyon Volume-7 Authors: S.Kar, I. Dutta
5	2023	Ternary –bands are globally determined	URAL Mathematical Journal Volume 9 Authors: S.Kar, I. Dutta

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Talks/ Paper or Poster Presentations/ Chairing Sessions/ Seminar/ Webinar/ Workshop/ RC/ OP/ Short term Course/ Any Other attended

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Sl. No.	Date	Title	Place /Organiser/ Other Information
1	24.03.18-25.03.18	Viswa-Bharati meet on Algebra and its Applications	Seminar Department of Mathematics Visva-bharati University
2	20.01.20-22.01.20	ICAACA: International Conference on Analysis, Algebra, Combinatorics and their applications	Seminar Department of Mathematics Jadavpur University
3	08.09.20-09.09.20	Linear Algebra, Analysis and Differential Equations	Seminar Department of Mathematics Garhbeta College
4	6.02.24-08.02.24	ICPMA	Seminar Department of Pure Mathematics Calcutta University
5	20.06.25	Bisbrikha er bipannata and Jibanananda Das	Webinar Bengali Department Santipur College
6	20.06.25	Chemistry: From a glorious past to a promising present	Webinar Chemistry department Santipur College
7	21.06.25	Emerging Issues in Commerce and Economics	Webinar Department of Commerce and Economics Santipur College
8	21.06.25	Recent trends in Biological Science	Webinar Department of Botany Santipur College

9	26.06.25	Relevance of Environmental Ethics in a recent Era	Webinar Department of Philosophy Santipur College
10	26.06.25	Women History: What and Why	Webinar Department of History Santipur College
11	27.06.25	Biodegradable Waste Separation Management	Webinar Zoology Department Santipur College
12	27.06.25	Empowering Education: Practical and Impactful Application of AI Tools for Students	Webinar Department of Computer Application Santipur College

Institutional Responsibilities

Portion of syllabus allotted		
Semester	Major/ Minor/ SEC/ MDC/ Other	Topic allotted
Semester 1	Major	Reduction formulae Derivation and illustration
	Minor	Complex numbers, De-Moivre's theorem Solution of a system of linear equations by matrix method
	MDC	Theory of equations Matrix and Determinant
Semester 2	Major	Cyclic group Classification of subgroups of cyclic group Rank of Matrix System of linear equations and its applications
	Minor	Complex numbers De-Moivre's theorem Solution of a system of linear equations by matrix method
	MDC	Theory of equations Matrix and Determinant

Semester 3	MAJOR	Limit of function Darboux's Theorem, Roll's Theorem Application of Taylor's theorem to inequalities
	Minor	Real valued functions defined on an real interval Indeterminate Forms L'Hospital's Rule
	MDC	Theory of equations Matrix and Determinant
Semester 4	Major	Concept of Vector space over a field Gram-Schmidt orthogonalization, Linear transformation Diagonalization, Canonical forms.
	Minor	Real valued functions defined on an real interval Indeterminate Forms L'Hospital's Rule
Semester 5	Major	
	Minor	Introduction Reduction of B.F.S to B.S.
Semester 6	Major	

Institutional Committees		
Sl. No.	**Name of Committee**	**Member / Convener**
1		

Other Information

✔ Member of Paschimbanga Itihas Samsad