FACULTY PROFILE

1. Name of the Faculty Member: Dr. Gokul Saha

2. Designation with Category (Substantive/SACT): Assistant Professor

3. Department: Mathematics

4. Educational and Professional Qualifications:

Name of the Institution	Name of the Affiliating Body	Degree/Diploma/Certificate Obtained	Specialization (if any)
Jadavpur University	Jadavpur University	BSc	
Jadavpur University	Jadavpur University	MSc	Pure Mathematics
Jadavpur University	Jadavpur University	Ph. D	Signal Processing
UGC HRDC, University of NORTH BENGAL	UGC	REFRESHER COURSE	
UGC HRDC Gauhati University	UGC	Faculty Induction Programme	

5. Teaching Experience (If applicable):

Name of the Institution	Position Held	From	To
Gokhale Memorial Girls College	Assistant Professor	02.04.2015	Present

6. Research Experience (If applicable):

Name of the Institution	Nature of Work	Designation	From	To
Jadavpur University	Signal Processing		2015	2021

7. Areas of Interest (Intra-disciplinary and/or Inter-disciplinary): Pure Mathematics and Signal Processing

8. Research Projects (if any):NO

9. Research Publications (if any):

a) Books/Book Chapters: The chapter entitled **"Effect of smoothing on big data governed by polynomial memory" in the Book** "**Noise Filtering for Big Data Analytics" published by "De Gruyter"**

b) Journal Articles:

1.	**A Theoretical Study of the Effect of Simple Exponential Smoothing in the Memory of a Homoscedastic Signal**	**BULLETIN OF CMS** 108(1), 49-54 2016	ISSN: 0008-0659
2.	Explicit Formulation of Double Exponential Smoothing and its Consequences in the Memory of the Linear Homoscedastic Signals	Progress in Nonlinear Dynamics and Chaos	Vol. 4, No. 2, 2016, 51-57 ISSN: 2321 – 9238 (online) Published on 16 September 2016 www.researchmathsci.org
3.	RECURRENCE MATRIX FORMULATION OF ASSOCIATED WEIGHTS IN DOUBLE EXPONENTIAL SMOOTHING AND ITS EFFECT IN THE MEMORY OF THE LINEAR HOMOSCEDASTIC SIGNALS	Bull. Cal. Math. Soc., 108, (6) 505–514 (2016)	ISSN: 0008-0659
4.	A NEW PROPOSAL ON THE RELATION BETWEEN IRREGULARITY INDEX AND SCALING INDEX IN A NON-STATIONARY SELF-AFFINE SIGNAL OBEYING FRACTIONAL BROWNIAN MOTION	Bull. Cal. Math. Soc., 111, (1) 79–86 (2019)	ISSN: 0008-0659

5.	A REVISIT TO THE RELATION BETWEEN IRREGULARITY INDEX AND SCALING INDEX IN A STATIONARY SELF-SIMILAR SIGNAL OBEYING FRACTIONAL GAUSSIAN NOISE	Journal of the Calcutta Mathematical Society, 15, (2) 139–152 (2019)	ISSN: 2231-5314

c) Course Materials:

d) Seminar/Conference Proceedings:

Sl. No.	Title of the paper presented	Title of Conference/ Seminar	Organized by	Whether International/ National/State/ Regional/College
1.	**A Theoretical Study of the Effect of Simple Exponential Smoothing in the Memory of a Homoskedastic Signal**	NCETMMS-2015	CMS	NATIONAL
2.	**Effect of Simple Exponential Smoothing on the Memory of a Heteroscedastic Homogeneous**	NSMP-2016	CMS	NATIONAL
3.	**RECURRENCE MATRIX FORMULATION OF ASSOCIATED WEIGHTS IN DOUBLE EXPONENTIAL SMOOTHING AND ITS EFECT IN THE MEMORY OF THE LINEAR HOMOSCEDASTIC SIGNALS**	ICAMTPBCS-2016	CMS	INTERNATIONAL
4	Validation of effect in Memory of discrete Signals governed by short order Autoregressive Methods on application of	CRTAM-17	BHWANIPUR EDUCATION SOCIETY COLLEGE	NATIONAL

5.	**A revisit to the inter relation between the irregularity index, fractal dimension and Hurst exponent in a signal**	ICGMMCP-2017	CMS	INTERNATIONAL
6.	**A New Proposal on the Relation between Irregularity Index and Scaling Index in a Non-stationary Self-affine Signal**	NPPBS-2018	JADAVPUR UNIVERSITY	NATIONAL
7	**Revisit to the Inter Relation between the Irregularity Index and Hurst Exponent in a Non-stationary Self-affine Signal obeying Fractional Brownian Motion**	NCMAMM-2018	CMS	NATIONAL
8	**Theoretical Non-linear Memory Models in Discrete**	2019	CMS	INTERNATIONAL
9	Effect of smoothing on signal with polynomial	2020	JU	INTERNATIONAL
10	A study on generalized polynomial memory of discrete Signal	(IWCEAMMS-202)	CMS	INTERNATIONAL

10. Invited Talk/Special Lecture/Seminar/Conference Presentation:

11. Other Academic/Official Responsibilities (At College/University Level or for Any Other Body of Higher Education): Council Member of Calcutta Mathematical Society,

PF committee member, IT committee member, University Exam committee ,Sports committee, Student Credit Card Committee Member in College.

12. Awards/Recognitions/Fellowships/Memberships (if any): Life Member of Calcutta Mathematical Society.