

Dr. GANESH C GORAIN

- **Qualifications** : M.Sc., Ph.D.

M.Sc., Applied Mathematics , 1990. [The University of Burdwan](#)

Ph. D., [Jadavpur University](#), 2000. Research work is carried out at [S. N. Bose National Centre for Basic Sciences, Kolkata](#)



- **Present Designation** : [Associate Professor of Mathematics](#)

- **Department**: Mathematics

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- **Email** : goraing@gmail.com, goraing@jkcpri.ac.in

- **Date of Joining** (At J. K. College, Purulia) : 16. 07. 1997

- **Teaching Experience** :

- **UG** : 22 years,
- **PG** : 17 years,
- **Others** : 20 years as Academic Counsellor of IGNOU .

Institution served	Designation	Duration
J. K. College, Purulia	Lecturer in Mathematics	16. 07. 1997 -- 15. 07. 2001
J. K. College, Purulia	Senior Lecturer in Mathematics	16. 07. 2001 -- 31. 12. 2005
J. K. College, Purulia	Assistant Professor of Mathematics	01. 01. 2006 -- 15. 07. 2006
J. K. College, Purulia	Reader in Mathematics	16. 07. 2006 -- 15. 07. 2009
J. K. College, Purulia	Associate Professor of Mathematics	16. 07. 2009 --

- **Specialization in Master degree** : Solid Mechanics

- **Research Experience** : 29 years

- **Research interest** : Mathematical control theory, Vibration control and stabilization on continuous systems, Dynamical System, Fuzzy Differential Equation

- **Title of Dissertation**:

- **Doctoral** : [Exact Vibration Control and Boundary Stabilization of a Hybrid Internally Damped Elastic Structure](#)

- **Fellowship /Scholarship received** (CSIR/UGC/NET/GATE/SET etc) :

National Scholarship at time of studying M.Sc. at Burdwan University

[NET \(CSIR\)](#): Two times (December 1993 & June 1994);

[SET/SLET](#) (West Bengal College Service Commission) : 1994

Junior Research Fellowship (CSIR) : 26. 08. 1994 -- 25. 08. 1999

Senior Research Fellowship (CSIR) : 26. 08. 1996 --15. 07. 1997

- **Academic Awards:**

- I. **N. C. Banerjee Gold Medal** for securing 1st position among all the subjects (**University Topper**) in Burdwan University Degree Final Examination- 1990
- II. **Shiksha Ratna Award** from Department of Higher Education, West Bengal in 2017

- **Membership of Professional Bodies:**

- I. **P.G. Board of Studies**, SKB University
- II. **Member Governing Body**, J. K. College, Purulia
- III. Centre Coordinator, Madhava Mathematics Competitions

- **Membership of Academic Bodies:** **Life Member**, Indian Statistical Institute, Kolkata

- **Publications** ([Annexure-I](#))

- No of Research Papers : Published – 37
- No of Proceedings Publications :- 01
- No of Books : 03

- **Seminars/Conferences/Workshops** ([Annexure-II](#))

- Number of Research paper presented: - 02
- Appeared as Resource Person: 02
- Appeared as Session Judge : - 01

- **Research Projects:** ([Annexure-III](#))

- Number of minor research project completed: 01

- **Research Guidance** (if any): ([Annexure-IV](#))

- Number of M.Phil. scholars guided : 04
- Number of Ph.D scholars guided : 01
- Number of present PhD scholars : 01

- **Any other information** : ([Annexure-V](#))

Declaration

I hereby declare that the information given above is true to the best of my knowledge and belief.



Date : 24.06.2019

Signature

ANNEXURES – I

• **List of Publications in National/ International Journals -(Total No. : 37)**

Sl. No.	Title of the paper	Author(s)	Name of the Journal	Vol. & Year	Pages/ Citation	ISSN/ISBN & Impact Factor
1.	Exponential Energy Decay Estimate for the Solutions of Internally Damped Wave Equation in a Bounded Domain	Ganesh C. Gorain	<i>Journal of Mathematical Analysis and Applications</i> : Elsevier	Vol. 216 , 1997	510-520 Cited : 53	ISSN : 0022-247X Impact Factor : 1.138 H.Index 118
2.	Exact Controllability of a Linear Euler-Bernoulli Panel	Ganesh C. Gorain and Sujit K Bose	<i>Journal of Sound and Vibration</i> : Elsevier	Vol. 217 , 1998	637-652 Cited : 04	ISSN : 0022-460X Impact Factor 2.988 H.Index 146
3	Exact Controllability and Boundary Stabilization of Torsional Vibrations of an Internally Damped Flexible Space Structure	Ganesh C. Gorain and Sujit K Bose	<i>Journal of Optimization Theory and Applications</i> :Springer	Vol. 99 , 1998	423-442 Cited : 35	ISSN : 0022-3239 Impact Factor : 1.234
4	Stability of the Boundary Stabilised Internally Damped Wave Equation $y'' + \lambda y''' = c^2(\Delta y + \mu \Delta y')$ in a Bounded Domain in \mathbb{R}^n	Sujit K. Bose and Ganesh C. Gorain	<i>Indian Journal of Mathematics</i>	Vol. 40 , 1998	1-15 Cited : 22	ISSN : 0019-5324 Impact Factor : 0.38 H.Index 6
5	Boundary Stabilization of a Hybrid Euler-Bernoulli Beam	Ganesh C. Gorain and Sujit K Bose	<i>Proceedings of the Indian Academy of Sciences - Mathematical Sciences</i> :Springer	Vol. 109 , 1999	411-416 Cited : 09	ISSN : 025 3-4142 Impact Factor : 0.295
6	Exact Controllability and Boundary Stabilization of Flexural Vibrations of an Internally Damped Flexible Space Structure	Ganesh C. Gorain and Sujit K Bose	<i>Applied Mathematics and Computation</i> : Elsevier	Vol. 126 , 2002	341-360 Cited : 22	ISSN : 0096-3003 Impact Factor : 2.300 H.Index 117
7	H ₂ Estimate of a Boundary Controlled Vibrating Hybrid Structure Subject to Uncertain Forces	Sujit K. Bose and Ganesh C. Gorain	<i>Journal of Aerospace Engineering</i> : ASCE	Vol. 16 , 2003	115-120 Cited : 03	ISSN : 0893-1321 Impact Factor : 0.76 H.Index 40
8	Uniform Stability of Damped Non-Linear Vibrations of an Elastic String	Ganesh C. Gorain and Sujit K Bose	<i>Proceedings Mathematical Sciences</i> :Springer	Vol. 113 , 2003	443 – 449 Cited : 11	ISSN : 025 3-4142 Impact Factor : 0.295

9	Definition of π : A controversy !	Ganesh C. Gorain	<i>JK Times</i>	Vol. I, 2004	61-62	ISSN : 2278-4047
10	Boundary Stabilization of Nonlinear Vibrations of a Flexible Structure in a Bounded Domain in \mathbf{R}^n	Ganesh C. Gorain	<i>Journal of Mathematical Analysis and Applications</i> : Elsevier	Vol. 319, 2006	635-650 Cited : 21	ISSN : 0022-247X Impact Factor : 1.138 H.Index 118
11	Exponential Energy Decay Estimate for the Solutions of n -Dimensional Kirchhoff type Wave Equation	Ganesh C. Gorain	<i>Applied Mathematics and Computation</i> : Elsevier	Vol. 177, 2006	235-242 Cited :36	ISSN : 0096-3003 Impact Factor : 2.300 H.Index 117
12	Constructions with Unmarked Ruler and Collapsible Compass	Ganesh C. Gorain	<i>JK Times</i>	Vol. II, 2006	38-42	ISSN : 2278-4047
13	Stabilization of Quasi-Linear Vibrations of an Inhomogeneous Beam	Ganesh C. Gorain	<i>IEEE Transactions on Automatic Control</i> : IEEE	Vol. 52, 2007	1690-1695 Cited : 16	ISSN : 0018-9286 Impact Factor : 5.007 H.Index 117
14	Nobel Prize Not in Mathematics : An Explanation	Ganesh C. Gorain	<i>JK Times</i>	Vol. III, 2008	28-31	ISSN : 2278-4047
15	Effect of Traffic Pollution on Eye and Nose Irritations of the People at Durgapur City	Prasanta K. Nandi and Ganesh C. Gorain	<i>Indian Journal of Environmental Protection</i>	Vol. 29, 2009	597—604 Cited : 53	ISSN : 0253-7141 Impact Factor : 0.18 H.Index 15
16	Uniform Stabilization of n -Dimensional Vibrating Equation Modeling 'Standard Linear Model' of Viscoelasticity	Ganesh C. Gorain	<i>Applications and Applied Mathematics</i>	Vol. 4, 2009	314—328	ISSN: 1932-9466 Impact Factor : 1.228 H.Index 24
17	Effect of Traffic Pollution on Health of the People at Durgapur (India)	Prasanta K. Nandi and Ganesh C. Gorain	<i>Journal of Environmental Science and Engineering</i>	Vol. 52, 2010	167-172 Cited : 03	ISSN : 0367-827X H.Index 23
18	Stabilization for the Vibrations Modeled by the 'Standard Linear Model' of Viscoelasticity	Ganesh C. Gorain	<i>Proceedings Mathematical Sciences</i> :Springer	Vol. 120, 2010	495-506 Cited : 19	ISSN : 0253-4142 Impact Factor : 0.295
19	Mathematics of Magic Squares	Ganesh C. Gorain	<i>JK Times</i>	Vol. IV, 2010	48-55	ISSN : 2278-4047
20	Uniform Exponential Stabilization for Flexural Vibrations of a Solar Panel	Prasanta K. Nandi and Ganesh C. Gorain	<i>Applied Mathematics</i>	Vol. 2, 2011	661-665 Cited : 07	ISSN : 2152-7385 Impact Factor : 0.35

21	A Note on Stability of Longitudinal Vibrations of an Inhomogeneous Beam	Prasanta K. Nandi, Ganesh C. Gorain and Samarjit Kar	<i>Applied Mathematics</i>	Vol. 3, 2012	19-23 Cited : 03	ISSN : 2152-7385 Impact Factor : 0.35
22	Boundary Stabilization of Torsional Vibrations of a Solar Panel	Prasanta K. Nandi, Ganesh C. Gorain and Samarjit Kar	<i>Applications and Applied Mathematics</i>	Vol. 7, 2012	455-463 Cited : 02	ISSN: 1932-9466
23	A Story of Indian Zero	Ganesh C. Gorain	<i>JK Times</i>	Vol. V, 2012	15-21	ISSN : 2278-4047
24	Stabilization of transverse vibrations of an inhomogeneous beam	Prasanta K. Nandi, Ganesh C. Gorain and Samarjit Kar	<i>QScience Connect</i>	Vol. 21, 2013	1-7	ISSN : 2223-506X
25	Exact Controllability of Vibrating Structures	Ganesh C. Gorain	<i>JK Times</i>	Vol. VI, 2013	22-28	ISSN : 2278-4047
26	Exponential Stabilization of Longitudinal Vibrations of an Inhomogeneous Beam	Ganesh C. Gorain	<i>Journal of Mathematical Sciences</i> :Springer	Vol. 198, 2014	245-251 Cited : 12	ISSN : 1072-3374 Impact Factor : 0.34 H.Index 27
27	Stability of the vibrations of a damped general inhomogeneous wave equation	Ganesh C. Gorain, Siddhartha Misra and Octavio Vera	<i>Journal of Advances in Mathematics</i>	Vol. 7, 2014	1305-1316	ISSN : 2347-1921
28	Stability of vibrations for some Kirchhoff equations with a dissipation	Prasanta K. Nandi, Ganesh C. Gorain and Samarjit Kar	<i>Applications of Mathematics</i> :Springer	Vol. 59, 2014	205-215 Cited : 01	ISSN : 0862-7940 Impact Factor : 0.897 H.Index 24
29	Stability of an inhomogeneous damped vibrating string	Siddhartha Misra and Ganesh C. Gorain	<i>Applications and Applied Mathematics</i>	Vol. 9, 2014	435-448	ISSN: 1932-9466
30	Uniform Stabilization of the Telegraph Equation with a Support by Fuzzy Transform Method	Rajib Ghosh, Sanchita Chowdhury, Ganesh C. Gorain and Samarjit Kar	<i>QScience Connect</i>	Vol. 19, 2014	1-10 Cited : 02	ISSN : 2223-506X
31	A Note on Stability of a Damped Wave Coupled with Thermal Effect	Siddhartha Misra, Rajib Ghosh and Ganesh C. Gorain	<i>JK Times</i>	Vol. VII, 2014	1-6 Cited : 01	ISSN : 2278-4047
32	Stability of the Vibrations of an Inhomogeneous Flexible Structure with Thermal Effect	Siddhartha Misra, Margareth Alves, Ganesh C. Gorain and Octavio Vera	<i>International Journal of Dynamics and Control</i> :Springer	Vol. 3, 2015	354-362 Cited : 05	ISSN : 2195-268X Impact Factor : 0.62 H.Index 9
33	Direct and Fuzzy Transform Methods for the Stabilization Vibrations of a Damped Linear String	Rajib Ghosh, Ganesh C. Gorain and Samarjit Kar	<i>Journal of mathematics and computer Science</i>	Vol. 15, 2015	216 – 227	ISSN: 2008-949X

34	Stabilization of an inhomogeneous beam coupled with heat conduction	Siddhartha Misra, Rajib Ghosh and Ganesh C. Gorain	<i>Journal of Advanced Research in Applied Mathematics</i>	Vol. 7, 2015	12-26	ISSN: 1942-9649 Impact Factor 0.876
35	Exponential Stability of a Pair of Wave Equations Coupled by Displacements	Siddhartha Misra and Ganesh C. Gorain	<i>JK Times</i>	Vol. VIII, 2015	1-5	ISSN : 2278-4047
36	Asymptotic behavior of a flexible structure with Cattaneo type of thermal effect	Margareth S. Alves, Pedro Gamboa, Ganesh C. Gorain, Amelie Rambaud, Octavio Vera	<i>Indagationes Mathematicae</i> : Elsevier	Vol. 27, 2016 Cited : 05	821-834	ISSN: 0019-3577 Impact Factor 0.753 H.Index 24
37	Stability Of Wave Equation With A Tip Mass Under Unknown Boundary External Disturbance	Siddhartha Misra, Ganesh C. Gorain and Samarjit Kar	<i>Applied Mathematics E-Notes</i> :Scopus	Vol. 19, 2019	128-140	ISSN 1607-2510 Impact Factor : 0.34 H.Index 16

• **Papers publication in National/ International Conferences:**

Sl. No.	Title of paper	Author(s)	Name of the Conference with Venue	Duration
1	Uniform Exponential Stability of the Vibrations of an Euler Bernoulli In-homogeneous Beam with Kelvin-Voigt type Damping	Siddhartha Misra, Rajib Ghosh and Ganesh C. Gorain	6 th National Conference on Wave Mechanics and Vibrations, Jalpaiguri, West Bengal	Nov. 1-3, 2014 ISBN: 978-81-909695-2-0

• **No. of Books**

Sl. No.	Name of Book	Names of the authors	Year of Publication	Publisher with Address	ISBN
1	Introductory Course on Differential Equations	Ganesh C. Gorain	2014	Narosa Publishing House, New Delhi	ISBN : 978-81-8487-399-3 Cited : 04
2	Laplace Transformations	Ganesh C. Gorain	2014	Narosa Publishing House, New Delhi	ISBN : 978-81-8487-386-3
3	Mathematical Hydrostatics	Ganesh C. Gorain	2017	New Central Book Agency (P) Ltd., Kolkata	ISBN : 978-93-5255-079-1

ANNEXURE-II

• Conference/Seminar presentations

Sl. No.	Title of the paper presented	Title of the conference/ seminar	Organized by	International/ National/State/ Regional/College/ University level	Duration
1	Exact Vibration Control of a Linear Rectangular Euler-Bernoulli Panel	42 nd Congress of Indian Society of Theoretical & Applied Mechanics	Dept. Of Mathematics, South Gujrat University, Surat & Department of Applied Mathematics, S. V. Regional College of Engg. & Tech., Surat	National	December 28-31, 1997
2	Boundary Stabilization of Non-Linear Vibration of Kirchhoff Type in a Bounded Domain in R^n	Need Based Mathematics Training as on Today (SNBMTOT-2006)	Department of Mathematics, Raniganj Girls' College, Raniganj, Burdwan, West Bengal	UGC-Sponsored State Level	March 09-10, 2006

• Conference/Seminar/Workshop attended as Resource Person

Sl. No.	Title of the paper/Topics presented	Title of the conference/ Seminar	Organized by	International/ National/State/ Regional/College / University level	Duration
1	Limit & Continuity, Derivatives & its applications and Vector	All India In-Service Training for Sainik Schools' Teachers: Training the Trainers	Sainik Schools Society, Ministry of Defense, Govt. of India	National	May 07-27, 2007
2	Essentials of sets in R	Introductory Mathematics: Vector Spaces and Essentials of sets in R	Government General Degree College at Manbazar II	College	19. 04. 2018

• Conference/Seminar attended as Session Judge

Sl. No.	Title of the conference/ Seminar	Organized by	International/ National/State/ Regional/College/ University level	Duration
1	3 rd Regional Science and Technology Congress (Western Region)	Sidho-Khano-Birsha University, Purulia & Dept. Of Science & Technology and Biotechnology, Govt. Of West Bengal	State	December 20--21, 2018

ANNEXURE-III

● List of completed Projects

Sl. No.	Title	Type : Major /Minor	Funding Agency	Period	Amount
1	Mathematical Stabilization of a Vibrating Elastic Structure	Minor	UGC	2004--2006	RS. 70,000/-

ANNEXURE-IV

● Research Guidance

● M. Phil

Sl. No.	Name of the Student enrolled	Title of the Thesis	Degree awarded	University
1	Prasanta Kumar Nandi	Effect of Pollution on Different Health Problems with respect to Different Modes of Transport and Travelling Time by Statistical Analysis	2008	<i>Vinayaka Missions University, Salem, Tamil Nadu, India</i>
2	Pradip Kundu	The Schwarz Lemma, Its Various Applications and Generalizations	2010	<i>Vinayaka Missions University, Salem, Tamil Nadu, India</i>
3	Debasis Patra	Numerical Investigation of PDE and Solution of Laplace Equation in Different Complex Domain	2010	<i>Vinayaka Missions University, Salem, Tamil Nadu, India</i>
4	Surajit Dan	Numerical Solution Technique of Incompressible Navier-Stokes Equation	2010	<i>Vinayaka Missions University, Salem, Tamil Nadu, India</i>

● Ph. D.

Sl. No.	Name of the Student enrolled	Title of the Thesis	Degree awarded	University
1	Prasanta Kumar Nandi	Studies on Vibration Stability of Flexible Structures	2013	<i>National Institute of Technology, Durgapur, West Bengal, India</i>
2	Siddhartha Misra		Working	

ANNEXURE-V

- **Members of Different Subcommittees, J. K. College, Purulia**
- **Reviewer of research papers of many National & International Journals**
- **External & Internal Ph.D. Thesis examiner**
- **Academic Counsellor of Indira Gandhi National Open University (IGNOU), J. K. College Study Centre**
- **Academic Counsellor of Netaji Open University (NOU), Nistarini College Study Centre**
- **Collaborative Research Works with the Institutes:**
 - ❖ S. N. Bose National Centre for Basic Sciences, Kolkata, India
 - ❖ National Institute of Technology, Durgapur, India
 - ❖ Universidad del Bio-Bio, Concepcion, Chile
 - ❖ Departamento de Matemática, Universidade Federal de Viçosa, UFV, MG, Brazil
 - ❖ Instituto de Matemática, UFRJ, Av. Athos da Silveira Ramos, RJ, Brazil
- **Performed as a Subject Expert of different Competitive Examination & Interviews, like School Service Commission Examination, Guest Faculty Recruitment of different Colleges etc.**
- **Performed as a member of External Evaluation in connection with the final evaluation of the Total Literacy Campaign of Burdwan District in 1991 under National Literacy Mission, New Delhi**
- **Was the Coordinator, IQAC, J. K. College, Purulia during 2015-2019**
- **Was the member of the Board of Research Studies, The University of Burdwan**
- **Was the member of the Board of Post-Graduate Studies, The University of Burdwan**
- **Was the Guest Teacher of PG Mathematics at Sidho Kanho Birsha University**
