



INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI



Name	Dr. Manish Agrawal	Photograph
Designation	Assistant Professor	
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Educational Qualifications:

Ph. D. – Physics (2012): Department of Physics and Astrophysics, University of Delhi
Thesis Title: Phase Synchronization in Forced Nonlinear Oscillators

Master of Science (M. Sc.) – Physics (2003): Department of Physics and Astrophysics, University of Delhi

Bachelor of Science (B. Sc. Honours) – Physics (2001): Department of Physics, Aligarh Muslim University

NET Qualification: CSIR-UGC National Eligibility Test (NET) for Lectureship held on June 22, 2003

Teaching Experience: Eighteen years

Serving as Assistant Professor in Department of Physics, Institute of Home Economics, since August 30, 2023

Earlier served as Assistant Professor (Physics) at Sri Aurobindo College, Ramjas College, Kirori Mal College, Hindu College, and S. G. T. B. Khalsa College, University of Delhi.

Subjects/Papers Taught:

Physical Sciences, Elements of Modern Physics, Applied Optics, Electrical Circuits and Network Skills, Renewable Energy and Energy Harvesting, Waves and Optics, Thermal Physics and Statistical Mechanics, Computational Physics Skills, Electricity and Magnetism, Mechanics, Mathematical Physics

Awards received:

UGC Research Fellowship in Science for Meritorious Students (RFSMS) for the duration 15/11/2007 to 14/11/2010 and 25/01/2011 to 23/4/2011.

Research Interest/Specialization:

Nonlinear Dynamics, Astrophysics & Cosmology, Quantum Mechanics, and Consciousness Studies

ORCID No. : 0000-0003-4933-8830

Research Projects: N. A.

Title	Funding agency/organization	Duration of Project

Research papers (selected) since 2010

S. No.	Author (s)	Paper Title	Journal Name	Volume/issue/ ISSN	Year	Impact factor	Level
1.	S. R. Ujjwal, N. Punetha, R. Ramaswamy, <u>Manish Agrawal</u> , and A. Prasad	Driving-induced multistability in coupled chaotic oscillators: Symmetries and riddled basins	Chaos: An Interdisciplinary Journal of Nonlinear Science	Volume: 26, ISSN No. 10541500	2016	3.741	International
2.	<u>Manish Agrawal</u>	Coupled chaotic attractors and driving induced bistability: A brief review	PRAMANA-Journal of Physics	Volume: 84, (No.2) ISSN No. 03044289	2015	2.8	International
3.	<u>Manish Agrawal</u> , A. Prasad, and R. Ramaswamy	Driving induced bistability in coupled chaotic attractors	Physical Review E	Volume: 87 ISSN No. 24700045	2013	2.707	International
4.	<u>Manish Agrawal</u> , A. Prasad, and R. Ramaswamy	Relaying phase synchrony in chaotic oscillator chains	Physical Review E	Volume: 84 ISSN No. 24700045	2011	2.707	International
5.	<u>Manish Agrawal</u> , A. Prasad, and R. Ramaswamy	Quasiperiodic forcing of coupled chaotic systems	Physical Review E	Volume: 81 ISSN No. 24700045	2010	2.707	International

Any Other:MANUSCRIPT REVIEW

Reviewed a manuscript for the research journal "Applications and Applied Mathematics: An International Journal (AAM)" (ISSN No. 1932-9466) published by Prairie View A&M University, USA, June- July 2018.

BOOK CHAPTER

A. Prasad, Manish Agrawal, and R. Ramaswamy, *Strange Nonchaotic Attractors in Driven-Delay Dynamics* in Nonlinear Dynamics, Narosa Publishing House, New Delhi, 2009. ISBN: 978-81-7319-941-7

RESEARCH ACTIVITY/ PUBLICATIONS' DATA

Google Scholar ID- <https://scholar.google.com/citations?user=bjcCobUAAAJ&hl=hi>

Research paper presented in conferences: **07** (International)

Conference/Seminars/Symposium/Workshops/Webinars Attended: **34** (International/ National)

Participated in Workshops/ schools as Resource Person: **05**

Seminar/Workshops organized: **05**

Professional/ Faculty Development Programs (FDPs) attended: **17**

ADMINISTRATIVE EXPERIENCE

Served as Assistant Coordinator at IGNOU Study Centre-07189, Sri Aurobindo College, New Delhi for the duration April 08, 2019 to August 29, 2023.

ASSOCIATION WITH PROFESSIONAL BODIES

Life Member: The Indian Science Congress Association (Membership Number: L40213).

Life Member: Indian Physics Association (Membership Number: LM-2023-DEL-137932)

On the panel of examiners, IGNOU Regional Evaluation Centres at Bhopal, Delhi, Lucknow, Patna, and Shillong (Meghalaya).

RESOURCE PERSON

Served as Resource Person in the DU Pre- Entrance Summer School- 2019 (June 17-29), 2018 (June 01- 16) and 2017 (June 07-22) University of Delhi, for imparting training to under graduate students, in the discipline of Physics.

ACADEMIC COUNSELOR

Empanelled as an Academic Counselor at IGNOU Study Centre 07189 (Sri Aurobindo College, New Delhi) RC Delhi-1 for the Foundation Course in Science & Technology (FST—01) and other Physics courses of Bachelor of Science (B. Sc. & BSCG) Programme, since 2019.

Empanelled as an Academic Counselor at IGNOU Study Centre 38013 (UVNAC, Dwarka, New Delhi) RC Delhi-3 for Foundation Course in Science and Technology (FST—01) of undergraduate BDP programme, since August 2017.

QUESTION PAPER SETTING

Set the following question papers of UG classes as an examiner for University of Delhi for the courses (1) Physical Sciences (2) Introductory Physical Science for Home Science (3) Applied Dynamics (4) Applied Optics (5) Renewable Energy and Energy Harvesting (6) Thermal Physics (7) Waves and Optics (8) Computational Physics Skills.

APPOINTMENT AS EXAMINER

External Examiner for practical examinations for the *Applied Physics* course at HMR Institute of Technology and Management, G. G. S. Indraprastha University, New Delhi.

External Examiner for practical examination for the course *Thermal Physics and Statistical Mechanics* of B. Sc. (Physical Sciences) III semester at Atma Ram Sanatan Dharma College, University of Delhi, New Delhi.

External Examiner for practical examination for the course *Applied Dynamics* of B. Sc. (Physics Hons.) VI semester at St. Stephen's College, University of Delhi, Delhi.

External Examiner for practical examination for the course *Waves and Optics* of B. Sc. Physical Sciences IV semester at Kalindi College, Univ. of Delhi.

External Examiner for practical examination for the course *Waves and Optics* of B. Sc. Physical Sciences IV semester at Bhagini Nivedita College, University of Delhi, Delhi.

Additional examiner to evaluate answer scripts fo B. Sc. (Programme) 2nd year *Mathematical Physics* papers at CEC. Ram Lal Anand College during May-June 2012.

GATE QUALIFICATION

Qualified Graduate Aptitude Test in Engineering (GATE) 2006 and 2003 in Physics, conducted by Ministry of Human Resource and Development, Government of India.

SOFTWARE SKILLS

Working knowledge of Linux and MS-Windows operating systems, FORTRAN programming language, Latex, GRACE, GIMP, and other related software.

NCC CERTIFICATE

Awarded with National Cadet Corps (NCC) 'B' certificate by the Army Wing (Engineer) in 2001.