

# Curriculum-Vitae

## DR. AMIT GOSWAMI

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## PROFILE

I have completed Doctor of Philosophy (UGC Regulation, 2009) in the Physics under the supervision of Dr. Jagdev Singh on the topic entitled “A Study of Nonlinear Systems in Plasma by Homotopy Perturbation Method” from Jagan Nath University, Jaipur, Rajasthan (India) in 2019.

## CAREER OBJECTIVE

A position that utilize my knowledge and skills for the achievement of organization goals and enables me to learn, grow and to implement my views which can be helpful for my organization and human beings.

## ACADEMIC QUALIFICATION

Qualification	Specialization	Year	Board/ University	Percentage	Division
Ph. D.	Physics	2019	Jagan Nath University, Jaipur	Awarded	Awarded
M. Ed.	Teaching Science	2013	Jiwaji University, Gwalior	69.50	First
B. Ed.	Teaching Physics	2011	Jiwaji University, Gwalior	77.60	First
M. Tech.	Optoelectronics	2010	RGPV, Bhopal	73.59	First
M.Sc.	Physics	2007	Jiwaji University, Gwalior	64.75	First
B.Sc.	PCM	2005	Jiwaji University, Gwalior	51.72	Second
12 <sup>th</sup>	PCM	2002	BSEMP, Bhopal	70.00	First
10 <sup>th</sup>	-----	2000	BSEMP, Bhopal	72.60	First

## OTHER ACHIEVEMENTS

- Post Graduate Diploma in Computer Application from AISECT, Bhopal in 2008.
- Web of Science Certification for Basic and Advanced Series.
- Journal Citation Reports Certification Series-2021.
- NCC Certificate - B (Naval Wing).
- NSS Certificate - A (Jiwaji University).

## TEACHING EXPERIENCE

Organization	Designation	From	To
Jagan Nath University, Jaipur	Associate Professor- Physics	05-10-19	Till Date
Jagan Nath University, Jaipur	Assistant Professor- Physics	21-01-11	04-10-19
Jaipur Institute of Technology, Jaipur	Assistant Professor- Physics	05-04-10	20-01-11
Miss Hill School, Gwalior	Teacher- Physics	04-07-05	05-07-08

## RESEARCH EXPERIENCE

- As M.Tech. Project Trainee in Optoelectronic Devices Group (ODG) at Central Electronics Engineering Research Institute (CEERI), Pilani, Rajasthan, from 01-07-09 to 06-07-10.  
Project Title: “Simulation and Fabrication of GaN/InGaN MQW Blue LED for SSL Application.”

## RESEARCH INTEREST

- Photonics
- Theoretical Physics
- Optoelectronics
- Computational Physics
- Nonlinear Physics
- Mathematical Physics

## SCIENTIFIC TOOLS

- OptiFDTD
- SCILAB
- OptiFiber
- Mapple
- OptiGrating
- Mathematica

## RESPONSIBILITY IN JAGAN NATH UNIVERSITY, JAIPUR

- Associate Dean- Academics
- Deputy Controller of Examinations
- Coordinator, Admission Cell
- Member, Internal Quality Assurance Cell
- Member, Board of Studies in Faculty of Science
- Head, Department of Physics
- Programme Coordinator- B. Sc. (PCM) & M. Sc. (Physics)
- Lab Incharge, UG Physics Course

## AWARD RECEIVED

- “Best Paper Presentation Award” in International Conference on Mathematical Modelling, Applied Analysis and Computation (ICMMAAC-19) organized by JECRC University, Jaipur, Rajasthan (India) from 08-10 August, 2019.

## PUBLICATIONS IN JOURNALS

- International: 06
- National: 00

## PAPER PRESENTED IN IN CONFERENCES

- International: 07
- National: 02

## REVIEWER OF THE JOURNALS

- Alexandria Engineering Journal (Journal of Elsevier, SCIE, IF: 3.696)
- Chaos, Solitons & Fractals (Journal of Elsevier, SCI, IF: 3.064)
- Frontiers in Physics (Journal of Frontiers, SCIE, IF: 1.895)
- Open Physics (Journal of De Gruyter, SCIE, IF: 1.005)

## PERSONAL PROFILE

Name	:	Dr. Amit Goswami
Father's Name	:	Mr. Vigyan Sagar Goswami
Mother's name	:	Mrs. Nirmala Goswami
Spouse Name	:	Ms. Ankita Vaidh
Date of Birth	:	June 03, 1985
Sex	:	Male
Marital Status	:	Married
Category	:	General
Religion	:	Hindu
Cast	:	Brahman
Nationality	:	Indian
Language Known	:	Hindi & English

### Declaration

I hereby declare that the above mentioned details are true to the best of my knowledge.

**Date: May, 2022**

**Place: Jaipur (Rajasthan)**

**(AMIT GOSWAMI)**

## RESEARCH PAPERS PUBLISHED IN JOURNALS

1. "Analytical Study of Fractional Nonlinear Schrödinger Equation with Harmonic Oscillator," Discrete and Continuous Dynamical Systems Series S, 14 (10), 2021, 3589-3610. (Journal of AIMS, SCIE).
2. "Numerical computation of fractional Kersten-Krasil'shchik coupled KdV-mKdV system arising in multi-component plasmas," AIMS Mathematics, 5 (3), 2020, 2346-2368. (Journal of AIMS Press, SCIE)
3. "An analytical approach to fractional EW equations describing hydro-magnetic waves in cold plasma," Physica A: Statistical Mechanics and its Applications, 524, 2019, 563-575. (Journal of Elsevier, SCI)
4. "An efficient analytical technique for fractional partial differential equations occurring in ion acoustic waves in plasma," Journal of Ocean Engg. and Science, 4, 2019, 85-99. (Journal of Elsevier, SCIE)
5. "Numerical simulation of fifth order KdV equations occurring in magneto-acoustic waves," Ain Shams Engineering Journal, 9, 2018, 2265-2273. (Journal of Elsevier, SCIE)
6. "A reliable algorithm for KdV equations arising in warm plasma," Nonlinear Engineering: Modeling and Application, 5 (1), 2016, 7-16. (Journal of De Gruyter, SCOPUS)

## RESEARCH PAPERS PRESENTED IN CONFERENCES

- 1 "Analytical study of fractional  $K(m, n, 1)$  equations," in ICMMAAC-21 organized by JECRC University, Jaipur, Rajasthan from 05-07 August, 2021.
- 2 "Numerical study of fractional  $K(2, 2, 1)$  and  $K(3, 3, 1)$  equations," in ICMMAAC-20 organized by JECRC University, Jaipur, Rajasthan from 07-09 August, 2020.
- 3 "Numerical computation of fractional Energy balance equations describing energy stored in Solar cell," in NCRDR-20 organized by JNIT, Jaipur, Rajasthan under TEQIP-III during 28-29 February, 2020.
- 4 "Numerical solutions of Schrödinger equations with Harmonic Oscillator describing motion of Quantum Oscillator," in ICMMHPCST-20 organized by LNCTS, Bhopal, Madhya Pradesh under TEQIP-III from 12-13 February, 2020.
- 5 "Approximate solution of Schrödinger equations with Harmonic Oscillator occurring in Quantum Mechanics," in RAMES-19 organized by VIT, Jaipur, Rajasthan under TEQIP-III from 09-10 November, 2019.
- 6 "Numerical computation of Kersten-Krasil'shchik coupled KdV-mKdV systems appears in multi-component plasmas," in ICMMAAC-19 organized by JECRC University, Jaipur, Rajasthan from 08-10 August, 2019.
  - Awarded "**Best Paper Presentation Award**" by JECRC University in ICMMAAC-19.
- 7 "An analytical approach to the fractional Equal Width equations describing hydro-magnetic waves in cold plasma," ICMMAAC-18 organized by JECRC University, Jaipur, Rajasthan from 06-08 July, 2018.
- 8 "Analytic study of fractional RLW equations describing waves in plasma," in AMSAET-17 organized by Poornima University, Jaipur, Rajasthan from 27-29 January, 2017.
- 9 "On the numerical solution of KdV equations," in ICFIDCAA-16 organized by Anand International College of Engineering, Jaipur, Rajasthan from 22-26 August, 2016.

## SESSION CHAIRED IN INTERNATIONAL CONFERENCES

- 3<sup>rd</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2020 (ICMMAAC-20) organized by JECRC University, Jaipur, Rajasthan from 07-09 August, 2020.
- 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2020 (ICMMAAC-21) organized by JECRC University, Jaipur, Rajasthan from 05-07 August, 2021.

## ORIENTATION/INDUCTION PROGRAMME ATTENDED

- 4 Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre (TLC), Ramanujan College, University of Delhi, New Delhi under scheme of PMMMNMTT, MHRD, GoI from 04 June-01 July, 2020.

## TRAINING PROGRAM ATTENDED

- "Innovation Ambassador Training (Advanced Level)" conducted by Ministry of Education's Innovation Cell & AICTE, New Delhi during the period from 30 June-30 July, 2021.
- "Innovation Ambassador Training" conducted by Ministry of Education's Innovation Cell & AICTE, New Delhi for IIC 3.0 Calendar Year.
- IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi from 28 April-22 May, 2020.