




SARAT CENTENARY COLLEGE, DHANIAKHALI, HOOGHLY, WEST BENGAL
FACULTY PROFILE



NAME: DR. PRAMIT REJ	
DESIGNATION: ASSISTANT PROFESSOR (ACADEMIC LEVEL- 11)	
DEPARTMENT: MATHEMATICS	
ACADEMIC QUALIFICATIONS: M.SC. (APPLIED MATH.), PH.D. (MATHEMATICS)	
CONTACT INFO.: pramitr@sccollegednk.ac.in	

DATE OF JOINING	06 - 03 - 2017 (F.N.)
SPECIALIZATION	Fluid Mechanics and Quantum Mechanics (M.Sc.) Quantum Scattering Theory (Ph.D.)
TEACHING INTEREST	Classical Algebra, Geometry, Differential Equation, Multivariate Calculus, Numerical Analysis, Computer Programming, Dynamics, Mechanics
TEACHING EXPERIENCE	7 Years 5 Months
AWARD & FELLOWSHIP	GATE 2012 (AIR- 189), CSIR UGC NET LECTURESHIP (December 2012) (AIR- 53), CSIR UGC NET JRF(UGC) (June 2013) (AIR- 70); Junior Research Fellowship (W.B. State-Funded), Junior Research Fellowship (UGC), Senior Research Fellowship (UGC)
MEMBERSHIP	Life Member of Calcutta Mathematical Society, Kolkata (Membership No.- LR/31) Life Member of Indian Society of Atomic and Molecular Physics, Ahmedabad (Membership No.- 1559) Visiting Associate of the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India

RESEARCH INTEREST: Atomic and Molecular collisions in plasmas; Compact Star Modelling in Modified Gravity; Dark Energy Star; Wormhole

RESEARCH EXPERIENCE: From 30th July, 2013 to 30th September, 2013 as Junior Research Fellow (W.B. State-Funded),
From 1st October, 2013 to 30th September, 2015 as Junior Research Fellow (UGC),
From 1st October, 2015 to 5th March, 2017 as Senior Research Fellow (UGC)

SEMINAR/ WORKSHOP PARTICIPATION	PRESENTED PAPER		ATTENDED		CHAired SESSION	
	NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL
	06	05	02	NIL	NIL	NIL
PUBLICATIONS	JOURNAL ARTICLES		BOOK/BOOK CHAPTERS			
	INTERNATIONAL- 32 (WoS AND SCOPUS)		NIL			

SELECTED PUBLICATIONS :

- (1) Phantom energy-supported wormhole model in $f(R,T)$ gravity assuming conformal motion, *International Journal of Modern Physics D*, **2022**, 31(3), 2250016 (DOI: 10.1142/S021827182250016X) 2021 IF: 2.547 (WoS and Scopus) [The Most Read Articles In The Last 3 Years]
- (2) Tolman IV fluid sphere in $f(R, T)$ gravity, *Chinese Journal of Physics*, **2022**, 77, 2201 (DOI: 10.1016/j.cjph.2021.11.013) 2020 IF: 3.237 (WoS and Scopus)
- (3) Stable and self consistent charged gravastar model within the framework of $f(R, T)$ gravity, *The European Physical Journal C*, **2021**, 81(8), 763(DOI: 10.1140/epjc/s10052-021-09548-0) 2020 IF: 4.59 (WoS and Scopus)
- (4) Charged compact star in $f(R, T)$ gravity in Tolman–Kuchowicz spacetime, *The European Physical Journal C*, **2021**, 81(4), 316 (DOI: 10.1140/epjc/s10052-021-09127-3) 2020 IF: 4.59 (WoS and Scopus)
- (5) Electron transfer in proton-hydrogen collisions in dense semi-classical hydrogen plasma, *Contributions to Plasma Physics*, **2021**, 61(4), e202000212 (DOI: 10.1002/ctpp.e202000212) 2020 IF: 1.563 (WoS and Scopus) [EDITOR'S CHOICE]
- (6) Positron impact excitations of hydrogen atom embedded in weakly coupled plasmas: Formation of Rydberg atoms, *Physics of Plasmas*, **2014**, 21, 093507 (DOI: 10.1063/1.4895491) 2013 IF: 2.249 (WoS and Scopus)
- (7) Rydberg transitions for positron–hydrogen collisions: asymptotic cross section and scaling law, *J. Phys. B: At. Mol. Opt. Phys.*, **2014**, 47, 015204 (DOI: 10.1088/0953-4075/47/1/015204) 2012 IF: 2.031 (WoS and Scopus)



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RESEARCH PROJECT/COLLABORATION/GUIDANCE: NIL

COMPLETED CERTIFICATE COURSE:

- Three MOOC for three to four months from CCE, IIT Kanpur conducted by Prof. H. C. Verma, Department of Physics, IIT Kanpur;
- One three weeks UGC Sponsored Orientation Program from UGC HRDC, Pt.RSU, Raipur during 07.01.2020 -27.01.2020;
- One two weeks UGC Sponsored Online Winter School from UGC HRDC, GU, Ahmedabad during 19.10.2020 -01.11.2020;
- Two four weeks MOOC and One three weeks MOOC through MOOKIT portal;
- Two sixteen weeks SWAYAM ARPIT (Session 2019-20) Online Certification courses through SWAYAM portal.
- NEP 2020 Orientation & Sensitization Programme-7 under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by The University of Burdwan from 05.03.2024 to 14.03.2024

COMPUTER SKILLS: Fortran 77, C, C++, Wolfram Mathematica, Latex, Ubuntu

RESEARCHER ID: Scopus: <http://www.scopus.com/authid/detail.url?authorId=55969572200>
Google Scholar: <http://scholar.google.co.in/citations?user=Jd1tPrcAAAAJ&hl=en>
ORCID: <http://orcid.org/0000-0001-5359-0655>
Web of Science Researcher ID: [L-4005-2014](#)
Vidwan-ID: 111256

ANY OTHER INFORMATION/ADDITIONAL RESPONSIBILITY:

3rd Prize in Oral Presentation (Mathematics) in 2nd RSTC (WR), 2017;
Joint Convener, Admission Implementation Committee of Sarat Centenary College for the academic sessions 2017-2018 and 2018-2019

DR. PRAMIT RAY