



RANCHI UNIVERSITY, RANCHI

Faculty Profile

- **Name of the Faculty Member: Dr. Arun Kumar**
- **Department: University Department of Physics**
- **Designation : Assistant Professor (SS)**
- **Level of Guidance & Teaching:**
- **Qualification:**

Academic Qualifications:

Examination	Board/University	Subject	Year of Passing	Division/Class	% of Marks
Matric	St. Aloysius School Ranchi, Bihar Board, Patna	Hindi, Eng, Phys, Chem, Math,	1983	Ist Div.	75%
Intermediate	St. Xavier's College Ranchi, Ranchi University, Ranchi	Phy, Chem, Math, Hindi, Eng.	1985	Ist Div.	72.9%
Graduation	St. Xavier's College Ranchi, Ranchi University, Ranchi	Physics (H)	1990	Ist Class	81.6%
Post Graduate	University Dept. of Physics, Ranchi University, Ranchi	Physics	1993	Ist Class	73%
M.Phil	----- ----- -----	----- -----	----- ---	----- -	-----
Ph.D	Ranchi University	Physics	2020		
Others (Ph.D. Course Work)	Ranchi University	Physics	2017	Grade-A	85%

Career Profile

Teaching experience in years	Area of Specialisation	
	Teaching	Research
(20) Twenty Years	Condensed Matter Physics	Quantum Optics

Research Guidance : M.Phil/Ph.D. /D.Sc. /D. Litt (May 2017 to till date):

Name of Research Scholar	Registration No. & Date	Topic of research work	Present Status (No. of Ph.D. awarded /ongoing)
05 M. Phil Students			

Books authored/Edited/Co-Author Chapter in Book (May 2017 to till date)

Name of Books	Subject	Sole or Co-Author	ISBN	Date of Publication	Name of Publishers

Number of Research papers published in Journals/Periodical (May 2017 to till date)

Sr. No.	Title with page Nos.	ISSN	Name of Journal	Date of Publication
01	Effect of Kerr non-linearity on the dynamics of a two-level atom coupled to a single mode field, pp.143-149	ISSN:2319-4227, Vol.4, No.1	RUJOST	July,2016
02	Exact Dynamics for a Two-level Atom Interacting with Intensity Dependent Single-Mode Quantized Cavity Field in a Kerr Medium pp.129-134	ISSN:2319-4227, Vol.4, No.2(ii), ,	RUJOST	July,2017

02	Study of Photon-statistics in intensity dependent Jaynes-Cummings Model pp.374-379	ISSN 2348-8034,	GJESR	2017
04	Result of Cavity-field statistics on atomic entanglement in intensity dependent two-photon process. pp 139-146.	ISSN:2319-4227, Vol.5&6, No.1&2:	RUJOST	Jan& July,2020- 2021

No. of seminars/conferences/workshop attended/organised (May 2017 to till date):

Seminar/Conference	Date of Participation	National/International
Workshop on Research based Pedagogical Tools	6 th -8 th September 2018	National (DBT ,DST)
Conference (Environmental Ethics & Sustainable Development)	17 th March 2019	National, (Sarla Birla University, Ranchi)

No. of FIP/refresher courses/summer trainings attended/organised (May 2017 to till date):

Date	Period	Venue

Any other academic, administrative and socially relevant contributions/consultancy and awards :