Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	**First Name**	AMIT	**Last Name**	KUMAR	Photograph	
Designation		Assistant Professor					
College		Thakur Roshan Singh Constituent Government College, Navada Darobast, Katra, Shahjahanpur, U.P., India					
Address	**(Campus)**	Department of Physics, T.R.S. Constituent Government College, Navada Darobast, Katra, Shahjahanpur, U.P., India					
	(Residence)	Anupam Nagar, Budaun Road, Bareilly-243001, (U.P.) India					
Mobile		8006476564					
Email		Personal	dwivediamit90@gmail.com				
		University Domain					
Professional Networking ID, ie. Linkedin, ORCID, Research Gate, Twitter etc.		https://www.linkedin.com/in/dr-amit-kumar-433017139?trk=contact-info Orcid ID: 0009-0003-2434-9557 https://www.researchgate.net/profile/Amit-Kumar-261 @DrAmitK18646864					

Educational Qualifications (Graduation Onwards)

Course/ Degree	Institution	Year	Details/Thesis Topic/Subjects
B.Sc	Bareilly College Bareilly	2008	Physics, Mathematics
M.Sc	M.J.P.R.U Campus, Bareilly	2010	Physics
B.Ed	C.C.S. University Meerut	2011	Science
Ph.D	University of Lucknow, Lucknow	2018	Physics

Career Profile

Organization / Institution	Designation	Duration	Nature of Duties
M.J.P. Rohilkhand University, Bareilly	Guest Faculty	01.12.2010 to 30.06.2011	Teaching and other departmental activities
M.J.P. Rohilkhand University, Bareilly	Guest Faculty	01.01.2014 to 05.12.2022	Teaching and other departmental activities
Thakur Roshan Singh Constituent Government College, Katra, Shahjahanpur, U.P., India	Assistant Professor	06.12.2022 to till date	Teaching and other Academic and administrative Responsibilities

Research Interests / Specialization- Vibrational Spectroscopy and Condensed Matter Physics

Research Experience in Years- 06 Years

No of Research Scholars Successfully Guided-

Name of Programme	Awarded	Under Supervision
Ph.D	----	----
M.Phill.	----	----
Dissertation (M.Ed,/M.A.)	**----**	

Researcher/Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar

Teaching Experience (Subjects/Courses Taught)

09 Years,

UG: B.Tech and B.Sc **PG:** M.Sc Physics

Physical Laboratories: UG and PG classes (Expert in Digital electronics Lab of UG and PG)

Virtual lab: Expert in Physical science and digital electronics lab

Honors & Awards & Fellowship FOR OUTSTANDING WORK

Name of Award/Fellowship	**Awarded By**		
	Name of Governmental Agency	**Name of Government Supported Organization/Department**	**Name of International Recognized Body**

Publications /Academic Activities (Numbers Only)

Books & Monographs (Single Author)		Research Papers Published in International Journals	**09**	Papers Presented in Seminars/ Conferences	**12**	Seminars/ Conferences Organized	**02 (webinar)**	Research Projects (Completed)
Books (Co-authored)		Research Papers Published in Other Journals		Seminar/ Conferences Attended	**17**	Workshops Organized	**01 (E-workshop)**	Research Projects (Ongoing)
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences		Membership of Academic/ Professional Bodies		Foreign Countries Visited for Academic Assignments
Chapters in Edited Books	**01**			Resource Lectures Delivered				

Details of Publications /Academic Activities (2010 Onwards)

(a) Authored Books / Monographs

Name of Book	**Year of Publication**	**Publisher**	**ISBN No**
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(b) Edited Books

Year of publication	**Title**	**Publisher**	**ISBN**	**DOI No.**	**Citations**
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(c) Papers Published in UGC Care Listed/Indexed/ Peer Reviewed Journals

Year of Publication	**Title**	**Name of Journal**	**ISSN No.**	**Citations**	**Impact Factor**
2014	Experimental and theoretical (FT-IR, FT-Raman, UV-vis, NMR) spectroscopic analysis and first order hyperpolarizability studies of non-linear optical material: (2E)-3-[4-(methylsulfanyl) phenyl]-1-(4-nitrophenyl) prop-2-en-1-one using Density Functional Theory	*Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*	1386-1425	63	4.4
2014	Molecular structure (monomeric and dimeric)	*Spectrochimic*	1386-1425	20	4.4

	and hydrogen bonds in 5-Benzyl 2-Thiohydantoin studied by FT-IR and FT-Raman spectroscopy and DFT calculations	*a Acta Part A: Molecular and Biomolecular Spectroscopy*			
2017	Molecular Structure, Spectroscopic (FT-IR, FT Raman, UV, NMR and THz) Investigation and Hyperpolarizability Studies of 3-(2-Chloro-6-fluorophenyl)-1-(2-thienyl) prop-2-en-1-one	*Journal of Molecular Structure*	0022-2860	38	3.8
2017	Conformational stability, spectroscopic signatures and biological interactions of proton pump inhibitor drug lansoprazole based on structural motifs	*RSC Advances*	2046-2069	11	3.9
2017	Molecular structure, nonlinear optical studies and spectroscopic analysis of chalcone derivative (2E)-3-[4-(methylsulfanyl) phenyl]-1-(3-bromophenyl) prop-2-en-1-one by DFT calculations	*Journal of Molecular Structure*	0022-2860	33	3.8
2019	Vibrational Spectroscopic Characterization, Electronic Absorption, Optical Nonlinearity Computation and Terahertz Investigation of (2E) 3-(4-ethoxyphenyl)-1-(3-bromophenyl) prop-2-en-1-one for NLO device fabrication	*Journal of Molecular Structure*	0022-2860	06	3.8
2022	Spectroscopic and quantum chemical study on a non-linear optical material 4-[(1E)-3-(5-chlorothiophen-2-yl)-3 oxoprop-1-en-1-yl] phenyl4-methylbenzene-1-sulfonate	*Journal of Molecular Structure*	0022-2860	03	3.8
2022	Spectroscopic Investigation and Density Functional Theory prediction of First and Second order Hyperpolarizabilities of 1-(4-Bromophenyl)-3-(2,4-dichlorophenyl)-prop-2-en-1-one	*Journal of Molecular Structure*	0022-2860	03	3.8
2023	Spectroscopic (FT-IR, FT-Raman, UV-vis and NMR) Investigation, Molecular Structure, Docking and Chemical Reactivity Elucidation of Antifungal Drug Tioconazole	Polycyclic Aromatic Compounds	1563-5333		2.4

(d) Chapter/Paper Published in Edited Books

Publication		**Title of the Book**	**Title of the Chapter**	**Name & Address of Publisher**	**Year**	**ISBN**	**Citation Google/web of science**
National	**International**						
	International	Proceedings of International Conference on Perspectives in Vibrational Spectroscopy	A comparative study of structural and nonlinear optical properties of two chalcone derivativ	Prof. Poonam Tandon, Professor, Department of Physics, University of Lucknow, India. Dr. Karthick Thangavel, Post-Doctoral Fellow, Department of Physics, University of Lucknow, India.	2016	978-93-5267-364-3	https://www.researchgate.net/publication/314187950_Proceedings_of_International_Conference_on_Perspectives_in_Vibrational_Spectroscopy_2016

		2016	es				

(e) Invited as Resource Lectures Person/Examiner/Expert

Resource person	Detail of Event	Title of Lecture	Date	Institution

(f) Seminars/Conferences/Workshops Organized -

1. One-week e-workshop on ***Technological Tools and their Management in Online Teaching,*** August 14-21, 2020 organizing by Examination Cell, Faculty of Engineering and Technology, M.J.P. Rohilkhand University, Bareilly.

2. ***Live Webinar Cum Workshop on Performing and Designing Experiments on Virtual Platform,*** June 9-17, 2020 organized by Faculty of Engineering and Technology, M.J.P. Rohilkhand University, Bareilly in association with Indian Institute of Technology, Roorkee.

3. ***Webinar on Virtual Labs,*** June 6, 2020 organized by Faculty of Engineering and Technology, M.J.P. Rohilkhand University, Bareilly.

4. Sixth International Conference on **Perspectives in Vibrational Spectroscopy (ICOPVS-2016)** November 5-8, 2016 in Department of Physics, University of Lucknow, Lucknow.

5. "**International Symposium on Advances in Biological & Material Sciences (ISABMS-2014)**" July 15, 2014 in Huboldt Academy, Lucknow & University ofLucknow, Lucknow

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till

(h) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	To
Nodal Officer	Thakur Roshan Singh Constituent Government College, Katra, Shahjahanpur, U.P., India	16.12.2022	Till date
Co-ordinator (UG admission committee)	Thakur Roshan Singh Constituent Government College, Katra, Shahjahanpur, U.P., India	15.07.2023	Till Date

(i) Seminar/Conference Presentations

1. Vibrational Spectra and Nonlinear Optical Investigations of a Chalcone Derivative (2E)-3-[4-(Methylsulfanyl) Phenyl]-1-(3-Bromophenyl) Prop-2-en-1-One by DFT method
   Amit Kumar, Archana Gupta, Poonam Tandon and E. D. D'silva
   "*International Conference on Spectroscopy of Bio-molecules and Advanced Materials* (**ICSBAM-2017**) "October 04-07, 2017 in Christian College, Chengannur, Kerala.

2. Vibrational Spectroscopic Investigation and Hyperpolarizability Studies of Some Nonlinear Optical Materials using DFT Method
   Amit Kumar, Rajesh Kumar, Archana Gupta and Poonam Tandon
   "4th International E-Workshop/Conference on Computational Condensed Matter Physics and Materials Science: Materials for Energy and Environment **(IWCCMP-2016)"** November 18-20, 2016 in ABV-Indian Institute of Information Technology and Management, Gwalior.

3. Quantum Chemical study on Vibrational Dynamics and NLO Properties of (2E)-3-[4-(methylsulfanyl) phenyl]-1-(3-bromophenyl) prop-2-en-1-one

Amit Kumar, Archana Gupta, Poonam Tandon and E. Deepak D'silva
"Sixth International Conference on Perspectives in Vibrational Spectroscopy ***(ICOPVS-2016)"*** November 5-8, 2016 in Department of Physics, University of Lucknow, Lucknow.

4. Vibrational Analysis, Electronic and Nonlinear Optical Properties of 3-(4-bromophenyl)-1-(pyridin-4-yl) prop-2-en-1-one by Quantum Computational Method
Amit Kumar, Archana Gupta, Poonam Tandon and A. Jayarama
"*International Conference on New Scintillations on Materials Horizons* **(ICNSMH-2016)**" October 21-23, 2016 in Department of Applied Physics, M. J. P. Rohilkhand University, Bareilly.

5. Vibrational Spectroscopic and static hyperpolarizability studies on nonlinear optical material 3-(4-Methoxyphenyl)-1-(pyridin-2-yl) prop-2-en-1-one
Amit Kumar, Archana Gupta, Poonam Tandon and A. Jayarama
"*International Conference on Advances in Light Technologies and Spectroscopy of Materials* **(ICALTSM -16)***"* January 16-18, 2016 in Department of Physics, University of Lucknow, Lucknow.

6. Structural optimization, first order hyperpolarizability and spectroscopic analysis of nonlinear optical material 3-(4-Methoxyphenyl)-1-(pyridin-2-yl) prop-2-en-1-one using DFT method
Amit Kumar, Reena, Archana Gupta, Poonam Tandon and A. Jayarama
"International Conference on Light Quanta: Modern Perspectives and Applications **(ICQLMPA-15)***"* December 14-16, 2015 in Physics Department, University of Allahabad, Allahabad.

7. Spectroscopic (FT-IR, FT-Raman, NMR, UV) studies of non-linear optical material (2E)-3-[4-(methylsulfanyl) phenyl]-1-(3-bromophenyl) prop-2-en-1-one with experimental and theoretical approaches
Amit Kumar, Archana Gupta, Poonam Tandon and E. D. D'silva
"International Workshop on Futuristic Materials: Characterization, Properties & Applications in Technology **(FMCPAT-14)**" July 17-22, 2014 in Department of Applied Physics, M. J. P. Rohilkhand University, Bareilly.

8. Vibrational Spectroscopic (FT-IR And FT-Raman) Studies, Natural Bond Orbital Analysis and Molecular Electrostatic Potential Surface of 4-(6-Methoxy-2-Naphthyl)-2-Butanone
Megha Agrawal, Vipin Deval, **Amit Kumar**, Rajesh Kumar, Archana Gupta and Poonam Tandon
"International Symposium on Advances in Biological & Material Sciences **(ISABMS-2014)**" July 15, 2014 in Huboldt Academy, Lucknow & University of Lucknow, Lucknow

9. Vibrational (FT-IR and FT-Raman) spectral analysis, electronic properties and first order hyperpolarizability studies of non-linear optical material 3-(4-Methoxyphenyl)-1-(pyridin-2-yl) prop-2-en-1-one using Quantum Chemical Calculations
Amit Kumar, Poonam Tandon, Archana Gupta and A. Jayarama
"International Seminar on Recent Trends in Material Science **(RTMS-13)***"* Novenber 21, 2013 in M. J. P. Rohilkhand University, Bareilly.

10. Experimental and computational study on molecular structure, Vibrational (FT-IR and FT-Raman) spectra, NBO and first order hyperpolarizability analysis of non-linear optical material 3-(4-Methoxyphenyl)-1-(pyridin-2-yl) prop-2-en-1-one
Amit Kumar, Poonam Tandon, Archana Gupta and A. Jayarama
"International Seminar on Advances in Bio and Nano Materials **(ISABNM-13)***"* November17, 2013 in Lucknow University, Lucknow.

11. Vibrational Spectra, Thermodynamic and Non-Linear Optical Properties of (2E)-3-[4-(methylsulfanyl) Phenyl]-1-(4-Nitrophenyl) prop-2-en-1-one using Quantum Chemical Calculations
Amit Kumar, Poonam Tandon, Archana Gupta and E.D. D'silva

"Fourth International Conference on Perspectives in Vibrational Spectroscopy-2013 **(*ICOPVS 2013)*"** August 06- 09, 2013 in Bishop Moore College, Mavelikara, Kerala.

12. Density Functional Theory Studies on Molecular Structure, Vibrational Spectroscopic (FT-IR, FT-Raman) and Hyperpolarizability of (2E)-3-[4-(methylsulfanyl) phenyl]-1-(4-nitrophenyl) prop-2-en-1-one
Amit Kumar, Poonam Tandon, Archana Gupta and E.D. D'silva
"International Conference on Chemistry and Materials: Prospects and Perspectives-2012 **(ICCMPP-2012)***"* 14-16 December, 2012 in Babasaheb Bhimrao Ambedkar University, Lucknow.

(j) Memberships of Academic/Professional Bodies

(k) Participation in Community Service/Exchange Programme/ Consulting Activity

1. **Faculty incharge of virtual labs:** Two virtual labs (Hybrid Digital and Analog Electronics Lab I and II) have been developed with coordination of MJPRU and IIT Roorki which is an initiative of Ministry of Human Resource Development (MHRD), Government of India

2. Co-ordinatnator of Poster presentation, Debate and Science quiz competitions in National Science day celebration February 07-28, 2019 in Dept. of Applied Physics, M. J. P. Rohilkhand University, Bareilly.

3. Co-ordinatnator of Poster presentation, Debate and Science quiz competitions in National Science day celebration February 27-28, 2017 in Dept. of Applied Physics, M. J. P. Rohilkhand University, Bareilly.

4. Attended a one-day National Seminar on *'**Atomic energy in the service of the nations*** **(AESN-2015)'** held on 1 March, 2015, Bareilly College Bareilly.

5. Participation National Seminar on ***'Role of Ion Beam in Materials Science and Acquaintance Programme on Ion Beam Facilities at IUAC New Delhi'*** held on 20 September 2013, Ch. Charan Singh University, Meerut.

6. Participation in National conference *"Advancement and Futuristic Trends in Material Science* **(AFTMS 2011)**" 26-27 March 2011 in M. J. P. Rohilkhand University, Bareilly.

7. Participation in National conference *"Simulation & Characterization of Advanced Materials* **(SICHAM-2010)"** April 17-18, 2010 in M. J. P. Rohilkhand University, Bareilly.

8. Attended a six days National workshop under Faculty Development Programme (FDP) on **'*Innovative Research on Materials in Science and Engineering*** **(IRMSE-16)'** held on 17-22 April, 2016, M. J. P. Rohilkhand University, Bareilly.

9. Attended a six days short term course/workshop on **'*Microwave & wireless Communication*** **MWC-16)'** held on 29 March- 03 April, 2016, M. J. P. Rohilkhand University, Bareilly

10. Attended a six days National workshop under Faculty Development Programme (FDP) on '*Recent Advances in Organic & Polymer Chemistry* **(RAOPC-14)'** held on 17-22 February, 2014, M. J. P. Rohilkhand University, Bareilly

11. Attended a six days workshop under Faculty Development Programme (FDP) ***"International Workshop on Futuristic Materials: Characterization, Properties & Applications in Technology*** **(FMCPAT-14)**" July 17-22, 2014 in Department of Applied Physics, M. J. P. Rohilkhand University, Bareilly.