

Curriculum Vitae

Dr Riyaz Ahemad

Assistant Professor

Department of Physics,
Gandhi Faiz-e-Aam (PG) College,
Shahjahanpur (UP), India-242001
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PRESENT STATUS

- Working as **Assistant Professor** in the Department of Physics, Gandhi Faiz-e-Aam (PG) College, Shahjahanpur (Since 16th December, 2016).

EDUCATIONAL QUALIFICATION

Examination	Board/University	Year	Division/Grade
Ph.D.(Physics)*	Aligarh Muslim University, Aligarh	2014	Awarded
M.Phil.(Physics)**	Aligarh Muslim University, Aligarh	2008	Awarded
M.Sc.	C.S.J.M. University, Kanpur	2003	1st Div.
B.Sc.	C.S.J.M. University, Kanpur	1999	1st Div.
D.C.A.(One Year)	C.S.J.M. University, Kanpur	2001	Grade 'A'

***Title of Ph.D. Thesis:** “*Atomic structure studies of Br in the vacuum ultraviolet region*”.

****Title of M.Phil. Dissertation:** “*Spectral studies of Cr I and Cr II atoms*”.

TEACHING EXPERIENCE

- **Assistant Professor:** Department of Physics, Gandhi Faiz-e-Aam (PG) College, Shahjahanpur (UP), India (**Since Dec 16, 2016– present**).
- **Assistant Professor:** Department of Physics, Aligarh Muslim University, Aligarh (**Aug 27, 2016 – Dec 15, 2016**).
- **Assistant Professor (Adhoc):** Applied Science & Hum. Section, University Polytechnic (Boys), Aligarh Muslim University, Aligarh (**Aug 10, 2016 – Aug 26, 2016**).
- **Guest Faculty:** Physics Section, Women’s College, Aligarh Muslim University, Aligarh (**Feb, 2015 – May, 2015**).
- **Guest Faculty:** Physics Section, Women’s College, Aligarh Muslim University, Aligarh (**Sept, 2015 – May, 2016**).
- **Teaching Experience (Lab.):** About **seven & half years teaching experience of Physics laboratory classes** at U.G. level in the Department of Physics, Aligarh Muslim University, Aligarh (**July, 2007 - Dec., 2014**).

- **Lecturer (contract)** : Worked as a Lecturer on contractual basis (Self finance) in the Department of Physics, Janta (P.G.) College, Bakewar (Etawah-U.P.) (**July 2005 -October 2006**).

COURSES TAUGHT

At UG level: Elements of Quantum Mechanics, Atomic & Molecular spectra, Semiconductor Physics, Mechanics, Basic Electronics & Circuit fundamentals Solid state Electronics, Electricity & magnetism, Optics. **At PG level:** Atomic & Molecular Spectroscopy, Microprocessor 8085, Digital Electronics, Mathematical Physics, Communication Electronics.

FELLOWSHIP AWARDED

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- **Jan. 2007 - May 2013 & October 2013 -December 2013:** UGC Research Fellowship.
 - **June 2013- September 2013:** Worked as **Research Assistant** under **DST- PURSE** (Department of Science and Technology - Promotion of University Research and Scientific Excellence) fellowship program.

ORIENTATION PROGRAMME

Completed successfully at UGC HRDC, AMU, Aligarh, India (from 08 May to 06 June, 2017).

REFRESHER COURSE

Completed successfully **On-Line Refresher Course in Environmental Studies** (open to all) at UGC HRDC, AMU, Aligarh, India (from 3rd September to 18th September, 2020)

SHORT TERM COURSE

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- Certificate of Achievement on “**Atomic & Molecular Radiation Physics: Astronomy to Biomedicine**” and Workshop on “**Superstructure & R-Matrix Code**” conducted by Professor Sultana N. Nahar & Prof. Anil K. Pradhan (The Ohio State University, USA) at the Department of Physics, A.M.U., Aligarh, February 10-March 11, 2014.

MEMBERSHIP OF SCIENTIFIC SOCIETIES& OTHER ACTIVITIES

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- Member of American Physical Society (APS), Member of Board of Studies, Deptt. of Physics, AMU, invigilation duties, Examiner (Evaluation), I was engaged as a Polling Officer in AMU Student Union Election-2016, , etc.
 - Member of the Advisory Committee of National Conference on “*Advances of Material Science in Physics*” held at Janta PG college, Bakewar Etawah, UP during Dec. 20-21, 2014.
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LIST OF PUBLICATIONS:

A. IN REFEREED JOURNALS (INTERNATIONAL):

- [1] "*Extended analysis of fifth spectrum of bromine: Br V*"
A. Riyaz, A. Tauheed and K. Rahimullah
Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT)(**Elsevier**), Vol. 147, 86-101 (2014)(**Impact Factor: 2.86**).
- [2] "*Revised and extended analysis of Br IV*"
A. Riyaz, K. Rahimullah and A. Tauheed
Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT) (**Elsevier**), Vol. 133, 624-645 (2014)(**Impact Factor: 2.86**).
- [3] "*Revised and extended analysis of Br VI*"
A. Riyaz, A. Tauheed and K. Rahimullah.
Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT) (**Elsevier**), Vol. 113, 2072-2080 (2012)(**Impact Factor: 2.86**).
- [4] "*The observed and predicted spectrum of neutral chromium: Cr I*" **A Riyaz**, K Rahimullah and A Tauheed.
Indian J. Physics(**Springer**), Vol. 85, No.12, 1781-1801, 2011(**Impact Factor: 1.9**).
- [5] "*Development of Microcontroller Based Instrument for Measuring Iron content in Water*"
Ram Murat Singh, Rashid Mustafa, **Riyaz Ahemad**
International Journal of Engineering and Innovative Technology (IJEIT), Volume 2, Issue 4, October, 2012 (ISSN: 2277-3754).
- [6] "*A Machine Learning Approach for Detection of Fraud based on SVM*"
Gajendra Singh, Ravindra Gupta, Ashish Rastogi, Mahiraj D. S. Chandel and **A. Riyaz**
International Journal of Scientific Engineering and Technology, Volume No. 1, Issue No. 3, pg: 192-196, July 2012(ISSN: 2277-1581).
- [7] "*Synchronization Problems in Synchronous Digital Hierarchy (SDH) Communication System and Master Slave Strategies*"
Abhishek Agwekar, Mohammed Ahmed, Ramanand Singh, **A. Riyaz**
International Journal of Scientific Engineering and Technology, Volume No. 1, Issue No. 3, pg: 197-199, July 2012 (ISSN: 2277-1581).
- [8] "*Digital Literacy and Educational Reforms*"
A. Riyaz
SELP Journal of Social Science
Science ISSN: 0975-9999 (P)
Special Issue April, 2018.(UGC Approved till 2019). (National).

B. IN CONFERENCE PROCEEDINGS

- [1] "*The observed and predicted spectrum of singly ionized chromium: Cr II*" **Riyaz Ahemad**, K. Rahimullah and A. Tauheed.
Emerging trends in LASER & Spectroscopy and Applications
Editors: A.K. Rai, I.M.L. Das and K.N. Uttam
Proceedings of MMSETLSA-2009
Allied Publishers Pvt. Ltd. (2010), 312-317(ISBN:978-81-8424-626-1).
- [2] "*Effect of Western Culture on Indian Culture*" (Book Chapter)

A. Riyaz

Scientific rationality and socio-cultural changes

Editors: Dr Sushil Kumar, Dr Vikas Pradhan and Dr Mahesh Babu

Neel Kamal Prakashan Delhi-Bareilly (2018), pg 200(ISBN:81-88962-75-9).

- [3] "*Atmospheric effect of bromine and parametric calculation of Br II*" (Book chapter)

A. Riyaz

Recent Developments in Nanoscience and Green Chemistry

Editor: Dr N. U. Siddiqui

Neel Kamal Prakashan, Shadara, Delhi-32 (2020), 278-80 (ISBN:81-88962-83-X)

C. BOOK PUBLICATION:

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- [1] "*Spectral Studies of Cr I and Cr II atoms*": **The observed and predicted spectrum of Cr I and Cr II atoms**

A. Riyaz, K. Rahimullah and A. Tauheed

Verlag: LAP Lambert Academic Publishing, **Germany**

ISBN-13: 978-3-659-24806-1-paperback, **128 Pages**.published in October 2012

PAPERS PRESENTED IN CONFERENCES/WORKSHOPS/OTHERS: 09

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- [1] "**Observed and predicted energy levels of Cr I**"
NCAAMNP-09 conference, Dept. of Physics, M.M.H. College Ghaziabad(U.P.) during 5-7 November 2009.
Riyaz Ahemad, K. Rahimullah and A. Tauheed.
- [2] "**Observed and predicted energy levels of Cr II**"
MMSETLSA-09 symposium, Dept. of Physics, University of Allahabad, 23-25 March, 2009.
Riyaz Ahemad, K. Rahimullah and A. Tauheed.
- [3] **Awarded 3rd Prize** for paper entitled "**Spectral studies of Cr I and Cr II atoms**"in National Science Day celebration-2009, Dept of Physics, A.M.U., Aligarh.
- [4] "**Theoretical calculations of $4s^24p^2-4s4p^3$ transitions in Zr IX using Cowan's Code**"
National Science Day celebration-2008, Department of Physics, A.M.U., Aligarh.
- [5] "**Revised and extended analysis of Br VI**",
3rdInternational conference on Current development in Atomic, Molecular and Optical Physics (CDAMOP-2011), University of Delhi, December 14-16, 2011. **Riyaz Ahemad**, A. Tauheed and K. Rahimullah.
- [6] "**Embedded System Designing**"
National Seminar on "Mixed Signal VLSI Design" at Sri Satya Sai Institute of Science & Technology, Sehore (Bhopal), M.P., India, July 20-21, 2012.
Sanjay Adwani, **Md. Riyaz Ahmad**.
- [7] "**Kernel porting (OS) on ARM based processor**"
National Seminar on "Mixed Signal VLSI Design" at Sri Satya Sai Institute of Science & Technology, Sehore (Bhopal), M.P., India, July 20-21, 2012. Sanjay Adwani, **Md. Riyaz Ahmad**.

- [8] **“FPGA implementation of software defined radio modeled based 16 QAM”**
National Seminar on “Mixed Signal VLSI Design” at Sri Satya Sai Institute of Science & Technology, Sehore (Bhopal), M.P., India, July 20-21, 2012. Vivek Kumar Bairagi, **Md. Riyaz Ahmad**.
- [9] **“Observed and predicted spectrum of trebly ionized bismuth: Bi IV”**
National Seminar on “Advances of Material Science in Physics(AMSP)-2014, Department of Physics, Janta College Bakewar, (Etawah)-U.P.
Aadil Rashid, **A. Riyaz**, K. Rahimullah
- [10] **“Needs for quality based education in present scenario”**
National Seminar on Digital India: Digital Empowerment to citizens
Ram Lubhai Sahani Government Mahila PG College, Pilibhit-262001, January 14-15, 2017
A. Riyaz
- [11] **“Environmental pollution and its effects”**
National conference on “Biodegradation of Wildlife, Environment and Biodiversity” Department of Zoology, Gandhi Faiz-e-Aam (PG) College, Shahjahanpur (UP), March 19-20, 2017. **A. Riyaz**
- [12] **“Energy Monitoring and Renewable Energy sources in Environment”**
National conference on “Biodegradation of Wildlife, Environment and Biodiversity” Department of Zoology, Gandhi Faiz-e-Aam College, Shahjahanpur (UP), March 19-20, 2017.
M.T. Khan, M.A. Khan, R. Ali, I. Khan and **R. Ahmad**
- [13] **“Analysis of Nano particles to implication & behavior with environment”** P. Dube and **Riyaz Ahemad**
National Conference on Nanotechnology at Pranveer Singh Institute of Technology, Kanpur, 18th-19th November, 2017.
- [14] **“Extended analysis of doubly ionized bromine: Br III”**
A. Riyaz
3rd International conference on “Recent Advances in Science” at Invertis University, Bareilly, March 1-2, 2019.
- [15] **“Atmospheric effect of bromine and parametric Calculation of Br II”**
National Conference on “Recent Developments in Nanoscience and Green Chemistry” in the Department of Chemistry, G.F. College, Shahjahanpur on 1st & 2nd February, 2020.
A. Riyaz

CONFERENCES/WORKSHOPS ATTENDED: 04

- [1] National seminar on "Frontiers of Condensed matter Physics" in the Department of Physics, A.M.U., Aligarh on 27th March 2010.
- [2] National Work Shop on Oxide Materials at A.M.U., Aligarh during May 12-13, 2009.
- [3] DAE-BRNS-09 Symposium, IUAC-New Delhi during February 10-13, 2009.
- [4] Workshop on “The Frontiers of Nuclear and Particle Physics”, at Department of Physics, Aligarh Muslim University, Aligarh, March 19-20, 2012.

