

CURRICULUM VITAE

Name: Rishi Kumar Tiwari

Educational Qualification: M.Sc.,Ph.D.

Post: Professor of Mathematics
(Selected through M.P. P.S.C. Indore-2011)

Official Address : Head,Dept. of
Mathematical Sciences, A.P.S.University
Rewa (M.P.),486003
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WORK EXPERIENCE

- (i) **30 years** of teaching to **Graduate** and **Post-graduate** classes.
- (ii) No. of Students **Awarded Ph.D.Degree** - **21**
- (iii) No. of Students Submitted Ph.D.Thesis- **01**
- (iv) Ph. D. Students Under Guidance -**02**
- (v) Number of **Books Published** **06**
- (vi) Number of **International/National research papers** published –
111 (list attached).

CONFERENCE /SCIENTIFIC RESEARCH COLLABORATION

ATTENDED ABROAD :

- "Sixth International Conference on Perspective on Hadronic Physics", 12-16 May 2008, Trieste- **ITALY**. Presented a paper "Collineations of the Curvature Tensor in General Relativity"
- "School on Particle Physics and Cosmology" 02-10 May 2009, **Oran-ALGERIA**. Presented a paper "Plane Symmetric Cosmological Models in Self Creation Cosmology" "
- "12th International conference on Topics in Astroparticle and Underground Physics **TAUP 2011**" 05-09 Sept. 2011 **Munich-GERMANY**. Presented a paper "Robertson-Walker Cosmological models with perfect fluid in General Relativity "
- "14th International conference on Topics in Astroparticle and Underground Physics **TAUP 2015** ", **TORINO – ITALY, Sept.07-11,2015**, presented a paper Solution of conharmonic curvature tensor in General Relativity
- Visited University of Zululand **SOUTH AFRICA** and participated in Scientific Research Collaboration which held from **20-05-2016 to 21-06-2016**.
- Research visit to University of **KWAZULU NATAL (Durban)** **Invited talk on Role of Conharmonic Flatness in general relativity South Africa Dated June 08-13,2016**
- Visited University of Zululand **SOUTH AFRICA** and participated in Scientific Research Collaboration which held from **01-11-2017 to 30-11-2017**.
- Research visit to University of **KWAZULU NATAL (Durban)** **Talk on Conharmonic curvature Tensor , South Africa Dated Nov.24-30,2017**

- 29th **Texas Symposium** on Relativistic Astrophysics Cape Town Presented a paper “ Scenario of a two-fluid FRW cosmological model with dark energy” International Convention **Centre Cape Town, South Africa , 03 December – 08 December 2017**
- Visited University of Zululand **SOUTH AFRICA** and participated in Scientific Research Collaboration which held from **15-05-2018 to 15-06 -2018.**
- Research visit to University of **KWAZULU NATAL (Durban)** **Invited talk on** Time varying Deceleration parameter **South Africa** Dated May 17- 21 , 2018

FELLOWSHIP RECEIVED/ AWARD

DST - ICTP (**ITALY**) Fellowship 2008.

IASc.-INSA-NASI Summer Research Fellowship -2012.

Shikshavid Samman - Department of Highereducation
MadhyaPradesh-Bhopal -2023.

U.G.C. PROJECT RECEIVED“

- **Studies on Homogeneous Cosmological Models in General Relativity”** sponsored by UGC (C.R.O.) Bhopal No.MS-08/2004-05(MRP/ CRO) 101020 dated 31/03/2005.
- **A Study of Bianchi’s Models in General Relativity** sponsored by UGC (C.R.O.) Bhopal No.MS-102/101020/07-08/ CRO dated 28/03/2008.

- **Study of Expanding Universe in General Relativity** sponsored by UGC (C.R.O.) Bhopal, F. No.MS-2/101023/11-12 CRO(2) dated 31/03/2012.
- **Mathematical Study of Accelerating Universe with Dark energy** sponsored by UGC (C.R.O.) Bhopal, F. No.MS-14/101020/XII/14-15(CRO) dated 20-02-2015.
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CONFERENCES AND RESEARCH SEMINAR ATTENDED IN INDIA:

1. Presented a paper “ **Casual dissipation in Robertson-Walker Cosmological Models in International Conference on Mathematical Physics** held at **University of Nagpur** on Jan. 10-16, 1999.
2. Presented a paper “**Bianchi Type-I Perfect Fluid Cosmological Models with Constant Active Gravitational Mass**” **6⁵th Annual Conference of Indian Mathematical Society** held at A.P.S. University, Rewa (M.P.) on Dec. 20-23, 1999.
3. Presented a paper “ **An LRS Bianchi Type-I Cosmological Models with G and Λ** ”. in a **National Symposium held at Government Model Science College**, Rewa (M.P.) on Dec. 1999.
4. Presented a paper “**Bianchi Type-V Perfect Fluid Cosmological Models with Constant Active Gravitational Mass**”. **67th Annual Conference of Indian Mathematical Society held at Aligarh Muslim University**, Aligarh on Jan. 27-30, 2002.
5. Presented a paper “**Collineations of the Curvature Tensor in General Relativity**” at **International Conference on Mathematical Analysis held at B.H.U., Varanasi** from Aug 21-24, 2000.

6. Presented a paper on cosmology in IUCAA- **Delhi University Workshop** on Large Scale structure and the CBMR held at Dept. of Physics and Astrophysics, **University of Delhi**, Nov. 16-20, 2002.,
7. Presented a paper Homogeneous Cosmological Models with variable Gravitational and Cosmological Constants”in 23rd Conference of the **IAGRG and Symposium on “Recent Trends in General Relativity, Cosmology and Astrophysics”**, held at **University of Rajasthan, Jaipur** on Dec. 07-10, 2004.
8. Presented a paper “ An LRS Bianchi Type-I Cosmological Models with Time dependent Λ Term “ in 24th IAGRG meeting on “**Recent Advances in Gravitation and Cosmology**” held at Centre for Theoretical Physics, **Jamia Milia Islamia University**, New Delhi on Feb. 05-08, 2007.
9. Participated in **National Seminar** on “**Excellence in Higher Education**” sponsored by U.G.C.(CRO), Bhopal held at **Govt. T.R.S.College, Rewa (M.P.). (2009)**
10. Participated in “Discussion meeting on Geometry and Analysis Jan.21 - 23, 2010 HRI (Allahabad) U.P.
11. Participated in **National Seminar** on “**Solar Activity and Cosmic Ray Modulation**” sponsored by U.G.C.(CRO), Bhopal held at **Govt. P.G. College, Satna (M.P.) Dated Oct 09-10,2010.**
12. **Invited Talk** in National Workshop on “**Special Functions and its Application**” Govt. P.G. College Shahdol (M.P.) Dated Feb. 05-06, 2011
13. Short Term Training Program on Learning Bioinformatics Tools & Programming Techniques for Teaching & Research Purpose. Jan. 09-21, 2012, Dept. of Computer Science, A.P.S. University, Rewa(M.P.)

14. **Invited Talk** in National Workshop on “**Applications of Differential equations to real world problem**” Govt. I.G.H.S. College Shahdol (M.P.) Dated Feb. 26-28, 2012.
15. Participated and presented a research paper at **International Conference** on Differential Geometry, Functional Analysis and Applications **held at J.M.I. New Delhi** from Sept. 08- 10, 2012.
16. Participated in National Conference of the Advances in Mathematical Sciences (AMS-2012) held at **MNIT Allahabad** on Oct. 05-07, 2012.
17. **Invited Talk** in National Conference on “**Recent Trends in Interdisciplinary Research and Astrophysics and Space science**” **M.B. Govt. P.G. College Haldwani, Nanital, Uttarakhand**, Dated Nov. 03-04, 2012.
18. **Invited Talk** in National Conference on “**Recent Advances in Mathematics**” **R.D. University, Jabalpur (M.P.)** Dated Dec. 12-14, 2012.
19. **Invited Talk** in National Seminar on “**Cosmic Ray Modulation in Inner Heliosphere**” Govt. Model Science College Rewa (M.P.) Dated Feb. 09-10, 2013.
20. **Invited talks** in seminar on “Recent trends in Science” Govt. T.R.S. College Rewa. Dated Aug 7 2013.
21. **Invited Talk** in National Seminar on “**Different Dimensions of Mathematics**” Institute for Excellence in Higher Education, Bhopal Dated Feb. 07-08, 2014.
22. National Seminar on “**solar plasma processes and cosmic ray modulation**”. dept. of physics Govt. new science college Rewa (M.P)

Dated Feb 09 2014.

23 Presented a paper “ Scenario of two fluid dark energy models in Bianchi type-III universe” in the International Conference “The Physical Universe” CIRI Nagpur India **Feb,26-- March 01,2018**

U.G.C. REFRESHER COURSE ATTENDED :

- Advances in Space Physics, A.P.S. University, **Rewa**, Sept 25- Oct 17, 1995.
- Refresher Courses in Mathematics, A.M.U. **Aligarh**, Sep 09-30,2003
- Refresher Courses in Mathematics, Allahabad Univ., **Allahabad**, Feb 1- Mar 01, 2004.
- Refresher Courses in Astronomy IUCAA, **Pune**, May 16-June 17,2005

U.G.C. ORIENTATION PROGRAMME ATTENDED :

- Academic Staff College University of **Allahabad**, March 30 to April 24, 1999.

MEMBERSHIP OF ACADEMIC SOCIETIES :

- Life membership of **IAGRG**. (Indian Association of General Relativity and Gravitation) **No.393**.

Life membership of **Indian Mathematical Society.No.T-87-015**.

- Life membership of **Astronomical Society of India No.L2145**.
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ACADEMIC EXPERIENCE

1. Former Head, Dept. of Mathematics, Govt. Model Science (P.G.)
College, Rewa (M.P.)
2. Prof. and Head, Dept. of Mathematics, Pt. S.N.
Shukla University, Shahdol (M.P.)
3. Prof. and Head, Dept. of Computer Science Mathematics, Pt. S.N.
Shukla University, Shahdol (M.P.)
4. Former member Board of Studies A.P.S. University, Rewa (M.P.)
5. Former member Board of Studies A.P.S. University, Rewa (M.P.)
6. Former member Board of Studies Govt. S.G.S. College Sidhi (M.P.) .
7. Former member Board of Studies Govt. T.R.S.. College Rewa (M.P.)

ACADEMIC CREDENTIALS:

Exam Passed	Board/University	Subjects	Year	%age of Marks	Remark
Higher Secondary	Board of Sec. Education, M.P. Bhopal	Physics, Chemistry, Math	1985	70.7%	
B.Sc.	A.P.S. University, Rewa	Physics, Chemistry, Math	1988	73.3%	
M.Sc.	A.P.S. University, Rewa	Mathematics	1990	84%	Gold Medallist
Ph.D.	A.P.S. University, Rewa	Mathematics	1998		

DECLARATION

I hereby declare that all above-mentioned information are true to my knowledge and belief.

(Rishi Kumar Tiwari)

