

ACADEMIC PROFILE OF FACULTY MEMBER

1. Name: **Dr. B. C. Tewari**
2. Designation: **Associate Professor**
3. Qualification: **M.Sc., Ph.D.**
4. Area of Specialization/Research Field: **Relativity and Relativistic Astrophysics.**
5. Number of Research Project:
 - i) Completed- **N.A.**
 - ii) On-going-**N.A.**
6. Number of Ph.D awarded: **02**
7. Number of candidates working for Ph.D award: **02**
8. Publications:
 - i) Books: **01 (REFERANCE BOOK)**

S/N	Co-Author's	Title	Publisher	Year of publication
1.	–	Radiating Fluid Balls in General Relativity	VDM Verlag	2010

ii) Research Articles/Paper Published:

1. **B.C.Tewari**, “Charged Analogue of Buchdahl’s General Relativistic Polytrope,” *Indian J. pure appl. Math.*, (1985), **16** , 658-660.
2. **B.C.Tewari**, “Radiating Fluid spheres in General Relativity,” *Astrophysics Space Sci.*, (1988), **149**, 233-239.
3. D.N.Pant and **B.C.Tewari**, “Conformally–Flat Matric Representing a Radiating Fluid Ball,” *Astrophysics Space Sci.*, (1990) **163**, 223-227.
4. **B.C.Tewari**, “Relativistic Radiating Fluid distributions,” *Indian J. Pure Appl. Phys.*, (1994), **32**, 504-507.
5. **B.C.Tewari**, “Relativistic Model for Radiating Star,” *Astrophysics Space Science*, (2006) **306**, 273-277.

6. **B.C.Tewari** and Mamta (Joshi) Pant., “ A new parametric class of exact solutions in general relativity representing perfect static fluid balls,” (2010) *arXiv:1006.1613 v1[gr-qc]*.
7. **B.C.Tewari** and Mamta Joshi Pant., “A new class of exact solutions in general relativity representing perfect fluid sphere,” *Proceedings of National Seminar on Interface between Statistics, Mathematics and Allied Science*, (2010), Dept. of Statistics, K.U.S.S.J. Campus Almora.
8. N. Pant, R.N.Mehta and **B.C.Tewari**, “Relativistic model of radiating massive fluid sphere,” *Astrophysics and Space Science*, (2010), 327, 279-283.
9. N. Pant and **B.C.Tewari**, “Horizon-free gravitational collapse of radiating fluid sphere,” *Astrophysics and Space Science*, (2010), **331**, 645-650.
10. N. Pant, **B.C.Tewari** and P. Fuloria., “Well behaved parametric class of exact solutions of Einstein-Maxwell field equation in general relativity,” *Journal of Modern Physics*, (2011), **2**, 1538-1543.
11. P. Fuloria, **B.C.Tewari** and B.C.Joshi., “Well behaved class of charge analogue of Durgapal’s relativistic exact solution,” *Journal of Modern Physics*, (2011), **2**, 1156-1160.
12. Mamta Joshi and **Bipin Chandra Tewari.**, “Well behaved class of charge Analogue of Adler’s relativistic exact solution,” *Journal of Modern Physics*, (2011) **2**,481-487.
13. **B.C.Tewari** and Mamta Joshi Pant., “New parametric classes of exact solutions in general relativity and polytropic nature fluid ball with constant sound speed,” *Astrophysics and Space Science* (2011) **332**,409-414.
14. N. Pant, P.Fuloria and **B.C.Tewari**, “A new well behaved exact solution in general relativity for perfect fluid,” *Astrophysics and Space Science*, (2012) **340**, 407-412.
15. P. Fuloria and **B.C.Tewari**, “A family of charge analogue of Durgapal solution,” *Astrophysics and Space Science*, (2012) **341**, 469-475.
16. **B.C.Tewari**, “Relativistic Collapsing radiating stars,” *Astrophysics and Space Science*, (2012), **342**, 73-77.
17. **B.C.Tewari**, “Collapsing shear-free radiating fluid spheres” *Gen Relativ Gravit* (2013) **45**, 1547–1558, DOI 10.1007/s10714-013-1545-6.

18. **B.C. Tewari** and Kali Charan, “ Radiating star, shear-free gravitational collapse without horizon” *Astrophys Space Sci* (2014) **351**:613–617 DOI 10.1007/s10509-014-1851-9
19. **B.C. Tewari** and Kali Charan, “Dissipative Spherical Gravitational Collapse of Isotropic Fluid” *Journal of Modern Physics*, 2015, 6, 453-462 Published Online March 2015 in *Sci Res.* <http://www.scirp.org/journal/jmp> <http://dx.doi.org/10.4236/jmp.2015.64049>
20. **B.C. Tewari** and Kali Charan, “Gravitational Collapse of Radiating Star with Radial Heat Flow” *International journal of applied mathematical Sci* (2015), **8**, 77-80.
21. **B.C. Tewari** and Kali Charan, “Horizon free eternally collapsing anisotropic radiating star” *Astrophys Space Sci* (2015) **357**:107 DOI 10.1007/s10509-015-2335-2.
22. **B.C. Tewari** and Kali Charan, “gravitational collapse, shear free anisotropic radiating star” *General Relativity and Quantum Cosmology*(2015) [arXiv:1503.02165](https://arxiv.org/abs/1503.02165) [gr-qc]

9. Conference/Seminar/symposium/workshops/Academic courses attended:

1. U.G.C. Instructional Conference in 1986 at AMU Aligarh.
2. Summer School in General Relativity and Cosmology in 1987 at Kumaun University, Nainital.
3. Symposium on Recent trends in Geometry and Relativity in 1988 at Kumaun University, Nainital.
4. Second Symposium on Recent trends in Geometry and Relativity in 1989 at Kumaun University, Nainital.
5. National Conference on History of Mathematics in 2000 at Kumaun University, Nainital.
6. Work shop organized by Council of Scientific and Technological Terminology in 2002 at Kumaun University, Nainital.
7. Orientation course of T.O.Programmme officers NSS and literacy house Lucknow2004.
8. Refresher course in mathematics organized by the UGC-ASC, Jamia Millia Islamia, New Delhi from 16 nov. to 06 dec., 2005.
9. Refresher course in mathematics organized by the UGC-ASC, Jamia Millia Islamia, New Delhi from 07 nov. to 27 nov., 2006.

10. Pre- International Congress of Mathematics 2010 workshop at Kumaun University, Nainital.
11. National Seminar on Interface between Statistics, Mathematics and Allied Sciences in 20-22 Nov.2010 at Kumaun University, S.S.J. Campus Almora.
12. National Workshop on Optimization-Theory and Practice in 15-19 Nov. 2010 at Kumaun University, S.S.J. Campus Almora.
13. 6th Uttrakhand state science and technology congress in 14-16 Nov.2011 at at Kumaun University, S.S.J. Campus Almora.
14. Work Shop on Algebra and Number Theory in 22-24 March 2012 at Kumaun University, S.S.J. Campus Almora.
15. Symposium Almora Mathematical Surveys (A National Mathematical Year Event) Centre of Excellence In Mathematical Sciences in 3-6 Oct. 2012 at Kumaun University, S.S.J. Campus Almora.

10. Academic/Administrative positions held: none

Administrative Experiences

1. Worked as Programme Officer NSS, S.S.J. Campus, Almora.
2. In charge/Senior Programme Officer, NSS, S.S.J. Campus, Almora.
3. Assistant Proctor, S.S.J., Campus, Almora.
4. Member of Flying Squad & A.S. in examination.
5. Member of admission committee (UG & PG).
6. Observer of B.Ed. entrance exam.
7. Member of fee concession committee.

11. Membership to professional organization/Associations:

S/N	Name of the Association/organizations	Status of the membership
1.	Indian Association of General Relativity and Gravitation(IAGRG)	Life member

September, 2015