

1. **Name** : Dr. Piyali Bhar

2. **Designation:** Assistant Professor

3. **Educational Qualifications:** M.Sc, Ph.D.

4. **Teaching Experience:** (UG): 1 year 6 months.

5. **Area of specialization/ interests:** Mathematical modeling of Compact star, Black hole and wormhole using Einstein's General theory of Relativity and Modified Gravity.

6. **Publications in journals: (in recent times)**

1. **PiyaliBhar** : “Modelling a new class of anisotropic compact stars satisfying the Karmakar’s condition” , *European Physical Journal Plus* (2017) 132: 274, Publisher: **Springer**
2. Ksh. Newton Singh, **PiyaliBhar**, FarookRahaman ,Neeraj Pant and Mansur Rahaman: “Conformally non-flat spacetime representing dense compact objects”, *Modern Physics Letters A, Vol. 32 (2017) 1750093*, Publisher: **World Scientific Publishing Company**.
3. **P Bhar**, K N Singh and N Pant: “Compact star modelling with quadratic equation of state in Tolman VII space–time”, *Indian J Physics* (2017) 91(6):701–709, Publisher: **Springer**
4. **PiyaliBhar** and Megan Govender: “Anisotropic charged compact star of embedding class I”, *International Journal of Modern Physics D*, Vol. 26, 1750053 (2017), Publisher: **World Scientific Publishing Company**
5. **PiyaliBhar**, Ksh. Newton Singh and Tuhina Manna: “A new class of relativistic model of compact stars of embedding class I”, *International Journal of Modern Physics D*, Vol. 26 1750090(2017), Publisher: **World Scientific Publishing Company**.
6. **PiyaliBhar**, Megan Govender and Ranjan Sharma : “A comparative study between EGB gravity and GTR by modeling compact stars”, *European Physical Journal C* 77:109 (2017), Publisher: **Springer**
7. **PiyaliBhar**, Ksh. Newton Singh, FarookRahaman, Neeraj Pant and Sumita Banerjee: “A charged anisotropic well-behaved Adler–Finch–Skea solution satisfying Karmarkar condition”, *International Journal of Modern Physics D*, Vol. 26 1750078 (2017), Publisher: **World Scientific Publishing Company**.
8. **PiyaliBhar**, S.K. Maurya, Y.K. Gupta and Tuhina Manna: “Modelling of anisotropic compact stars of embedding class one”, *European Physical Journal A*, 52: 312 (2016), Publisher: **Springer**.
9. **PiyaliBhar**, Ksh. Newton Singh and Neeraj Pant: “Compact stellar models obeying quadratic equation of state”, *Astrophysics Space Science* 361: 343 (2016), Publisher: **Springer**.
10. Ksh. Newton Singh, **PiyaliBhar** and Neeraj Pant: “Solutions of the Einstein’s field equations with anisotropic pressure compatible with cold star model”, *Astrophysics Space Science*, 361: 339 (2016), Publisher: **Springer**.
11. **PiyaliBhar** and M.H. Murad: “Relativistic compact anisotropic charged stellar models with Chaplygin equation of state”, *Astrophysics Space Science* 361:334 (2016), Publisher: **Springer**.
12. Ksh. Newton Singh, **PiyaliBhar** and Neeraj Pant : “A new solution of embedding class I representing anisotropic fluid sphere in general relativity”, *International Journal of Modern Physics D*, Vol. 25, No. 11, 1650099 (2016), Publisher : **World Scientific Publishing Company**