

FACULTY PROFILE

Dr. Iftikar Hossain Sardar



Assistant Professor

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About:

I am working as an assistant professor in the department of Mathematics since 1st April, 2017. My research area is General Theory of Relativity (GTR) and Cosmology. In particular, I have main interest in the modelling of the Universe from different approach like Creation Field (Hoyle-Narlikar) Theory and Bionic System. Whereas, I have an interest in Einstein and Modified theories of Gravity.

Qualifications:

B.Sc in Mathematics (Jadavpur University, 2011)

M.Sc in Mathematics (Jadavpur University, 2013)

Ph.D (Science) in Cosmology and Astrophysics (Jadavpur University, 24th July, 2018)

Teaching Aids:

UG Level: Analytical geometry, Vector Analysis, Mathematical Analysis, Linear Algebra, Functions of Several Variables, Differential Equations etc.

Publications:

1. Compact star model in Einstein Gauss Bonnet Gravity within the framework of Finch Skea space time.

Iftikar Hossain Sardar.

Canadian Journal of Physics. doi.org/10.1139/cjp-2017-0501, page – 1-7 (2018)

2. Conformally Symmetric Relativistic Star.
Farook Rahaman, Sunil D. Maharaj, **Iftikar Hossain Sardar** and Koushik Chakraborty.

Modern Physics Letters A. Vol. 32, No. 8, Page – 1750053 (2017).

3. "C - Field Cosmological models : revisited".

A. K. Yadav, A. T. Ali, Saibal Roy, Farook Rahaman and **Iftikar Hossain Sardar**.

Research in Astronomy and Astrophysics. Vol. 16, No. 12, Page – 188 (2016).

4. "Interior solutions of fluid sphere in $f(R,T)$ gravity admitting conformal killing vectors".

M. Zubair, **Iftikar Hossain Sardar**, Farook Rahaman, G. Abbas.

Astrophys. Space Sci. Vol. 361, Page-238 (2016)

5. "Unifying inflation with late-time acceleration by a Blonic system".

A. Sepehri, F. Rahaman, M. R. Setare, A. Pradhan, S. Capozziello, **Iftikar Hossain Sardar**.

Physics Letters B, vol. 747 page -1 (2015)

6. "Emergence and Expansion of Cosmic Space in Blonic System".

A. Sepehri, Farook Rahaman, Anirudh Pradhan and **Iftikar Hossain Sardar**.

Physics Letters B, vol. 741 page-92 (2015)

7. "Model of Singularity Free Charged Compact Stars".

Safiqul Islam, Farook Rahaman and **Iftikar Hossain Sardar**.

Astrophys. Space Sci. Vol. 356, Page-293 (2015)