

Name of Faculty DR. K. VENKATEHSAM
Designation ASSISTANT PROFESSOR



Date of Joining 14-11-2022
E-mail venkatesham.physics@jbiet.edu.in

Education Qualifications	Name of the Degree	Class
Post-Doctoral Fellow	University of Allahabad (Central University)	Completed
Research Associate	K S Krishnan Research Laboratory, IIG, Prayagraj	Completed
Ph. D.	Physics (IIG, Mumbai), Awarded by Mumbai University	Awarded
PG	M. Sc. (Physics)	First
UG	B. Sc. (MPC)	First

Work Experience

Teaching	02 Years
Research	10 Years

Area of Specialization Space physics, Ionospheric physics and Plasma physics.

Responsibilities held at Institution Level

1. R & D Coordinator

Responsibilities held at Department Level

1. HOD- Physics
2. BOS-Chairman

Awards Received

1. SERB-National Postdoctoral Fellowship.
2. Institute Research Associate Fellowship (RA) of IIG, Bombay.
3. GATE (Graduate Aptitude Test in Engineering) 2012.

Courses Handled at Under Graduate level

Semiconductor Physics, Engineering Physics, and Applied Physics.

No. of conferences/workshop attended National / International Conferences 06

Papers published International/National Journals

1. Venkatesham, K., Maurya, A. K., Singh, R., & Dwivedi, S. (2023). Extreme space weather events of solar cycle 24: X-class solar flares and their impact on the low-latitude D-region ionosphere. *Current Science*, 124(7), 812–819. <https://doi.org/10.18520/cs/v124/i7/812-819>
2. Ajeet Kumar Maurya., DV Phanikumar., Rajesh Singh, K Venkatesham., Abhay K Singh.(2022). Effect of total lunar eclipse of 27th July 2018 on the D-region ionosphere by using VLF observations. *Advances in Space Research*,69.
3. Venkatesham, K., Singh, R., Maurya, A.K., Dube, A., Kumar, S., & Phani Kumar, D.V. (2018). The 22 July 2009 Total Solar Eclipse: Modeling D-region ionosphere with narrowband VLF observations. *Journal of Geophysical Research: Space Physics*,123. <https://doi.org/10.1029/2018JA026130>.
4. Venkatesham, K., and Rajesh Singh, Extreme Space Weather effect on D-region ionosphere in Indian Low latitude region, *Current Science*, vol. 119, no. 9, 1923-1926, 2018.
5. Maurya, A. K., Venkatesham, K., Kumar, S., Singh, R., Tiwari, P., & Singh, A. K. (2018). Effects of St. Patrick's Day geomagnetic storm of March 2015 and of June 2015 on low-equatorial D region ionosphere. *Journal of Geophysical Research: SpacePhysics*, 123. <https://doi.org/10.1029/2018JA025536>.
6. Ajeet, K. M., K. Venkatesham, P. Tiwari, K. Vijaykumar, R. Singh, A. K. Singh, and D. S. Ramesh (2016), The 25 April 2015 Nepal Earthquake: Investigation of precursor in VLF subionospheric signal, *Journal of Geophysical Research: SpacePhysics*, 121. doi:10.1002/2016JA022721.
7. Phani Kumar, D. V., Maurya, A. K., Kumar, K. N., Venkatesham, K., Singh, R., Sharma, S., & Naja, M., 2018. Anomalous variations of VLF sub-ionospheric signal and Mesospheric Ozone prior to 2015 Gorkha Nepal Earthquake. *Sci. Rep.* 8(9381). <https://doi:10.1038/s41598-018-27659-9>.
8. Sneha A. Gokani, Rajesh Singh, S. Tulasi Ram, K. Venkatesham, B. Veenadhari, Sandeep Kumar and R. Selvakumaran, Rare observation of daytime whistlers at low latitude (L=1.08), *Adv. Space Res.*,(2017). <http://dx.doi.org/10.1016/j.asr.2017.07.035>.
9. Sneha A. Gokani, Rajesh Singh, Morris Cohen, Sushil Kumar, K. Venkatesham, Ajeet Maurya, R. Selvakumaran and J. Lichtenberger, Very low latitude (L=1.08) whistlers and correlation with lightning activity, *J. Geophys. Res. Space Physics*, 120 doi:10.1002/2015JA021058., 2015.
10. R. Selvakumaran, Maurya, A.K., Gokani, S. A., B. Veenadhari, Kumar, S., K. Venkatesham, D. V. Phanikumar, Abhay K. Singh, Devendraa Siingh and Rajesh Singh, Solar flares induced D-region ionospheric and geomagnetic perturbations, *J. Atmos. Space Terr. Phys.*, 123(2015)102112., 2015.