

Website Information
Department of Physics
Dayananda Sagar University



Faculty Details:

Faculty Name	Dr. M.V. HANUMANTHA RAO
Room No.	A213 Cabin No.6
Designation	Research Professor
Contact No. & E-mail	+91-9731689200 mvhrao-phy@dsu.edu.in
Research Areas	Thin Films, Materials Technology and Optical instrumentation for Space Science.
Publications (past 5 years)	<ol style="list-style-type: none"> 1. Laser Induced Breakdown Spectroscope on Chandrayaan-2 Rover: a miniaturized mid-UV to visible active spectrometer for lunar surface chemistry studies. AS Laxmiprasad, R Sridhar, A Goswami, KA Lohar, MVH Rao, KV Shila, et.al., Current Science, Vol.118 (4) 2020. 2. Lyman Alpha Photometer: A far-ultraviolet sensor for the study of hydrogen isotope ratio in the Martian exosphere – Sridhar Raja, M.V.H. Rao, M.Viswanathan, et.al., in Current Science., Vol. 109, No. 6, September 2015. pages 1114 – 1120. 3. Optical Instrumentation of an NIR Spectro-Polarimeter for Planetary Atmospheric Studies, Bijoy Raha, Bhavesh Jaiswal, U R Subramanyam, Anuj Nandi, R. Rajkumar and M.V.H. Rao, presented at Indian Planetary Science Conference, PRL Ahmedabad, 2020.
Sponsored Projects (Past and Ongoing)	<i>Ongoing:</i> RES-SAC-2022-013: Polarization Imaging Camera for characterization of planetary atmosphere and surface.
Profile Links: Scopus and Orcid	https://orcid.org/0000-0002-7814-4704

Research Activities	Design and development of Imaging camera and optical coatings for polarization beam splitting are being carried out as a part of ISRO RESPOND project Other areas of research interest include meta materials, sensors based on nano-photonics and Spectroscopy based optical instrumentation.
Collaborations	Space Application Centre, Ahmedabad CeNSE, Bangalore and LEOS-ISRO, Bangalore
Invited Talks	Plenary Lecture on “Application of Glass for Space imaging optics” at the International Conference on Glass and Glass Ceramics, at CGCRI, Kolkata, 2022. Invited talk on “Infrared optical coatings” at SSPL, New Delhi, 2023. Chaired a Session on “Thin Films for Space Application” at International Conference on Thin Films-KLC, at IIT, Chennai, 2023.
Group Members	Ms. Krishna P, M.Sc., Research Assistant
Open Positions: if any	Two research scholar positions are available under DSU Research program.