



**Dr. J.Rukmini,M.Sc., Ph.D.**

**Assistant Professor**

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Field of specialization is Studies of Binary and Variable stars. Currently working on photometric, spectroscopic and asteroseismic studies of eclipsing binary stars in field and clusters. Enthusiastic in observational astronomy and outreach activities. She is the Lady Counselor and Department Research Committee member at the Department of Astronomy. She has guided M.Sc. projects and is guiding Doctoral students in the area of field of expertise. She has been conducting optical observations through various telescopes and National observing facilities. She has worked on the project titled “*Asteroseismic studies of stars in binary systems from space and ground based observations*” funded by UGC under UGC-BSR Start-Up Grant (No.F.30-108/2015-BSR). She has research collaboration with scientists working at National Research Institute ARIES, Nainital. Her studies are focused on characterizing various types of binary stars and variable stars through ground and space based observations and understanding the evolution of the same in field and clusters. Her studies also directed towards observing and analyzing inherent properties like stellar magnetic activities and influence of stellar/substellar tertiary components from their signatures in the observational data.

She has presented her research work at various national and international conferences like ASI meetings, International Conference on Celestial Mechanics & Dynamical Astronomy at MANUU, Hyderabad, BINA (Belgo-Indian Network for Astronomy and Astrophysics) workshop at ARIES, Nainital, National Conference on Star and Planet Formation at IIST, Thiruvananthapuram, National Space Science Symposium (NSSS)”, at Vikram sarabhai Space Centre, Thiruvananthapuram, meeting on international collaborative work regarding Near Earth Asteroids (NEAs) at Shanghai Astronomical Observatory, CAS, China and International conference on “Universe of Binaries, Binaries in the Universe at Masaryk University, University Center Telc, Czech Republic. She has also designed and conducted theory and lab sessions in the 10-day certificate course titled “FOUNDATION COURSE IN ASTRONOMY & ASTROPHYSICS” in the Department of Astronomy, Osmania University.

She is a life member of the Astronomical Society of India (ASI) and Indian National Science Congress (INSC) and is an Individual member of International Astronomical Union (IAU). She has been a Member of Jury panel – INSPIRE DST programs 2014 to 2017. She is also actively involved in public lectures and workshop activities related to astronomy at the Summer Camps conducted for high school students at District Residential Social Welfare Schools, funded by UNICEF, since May 2016. She is involved in outreach activities at the Department and guiding the visitors, amateur astronomers and school and college students during night time observations at the Japal-Rangapur Observatory (JRO) as the part of outreach activity. Involved in ratification process of lecturers in private engineering colleges as a technical expert. She has trained school and college teachers in STEM related workshops with an insight on Astronomical subjects. She is also a resource person to various amateur astronomy clubs in student as well as professional groups. She has been actively taking part in public lectures and Hands-On Practical Astronomy sessions in both offline and online modes.