

Research Schemes/ Projects undertaken by The Department of Physics

Title of the Project/ Scheme	Funding Agency	Funds Received (Rs.)	Year of Commencement	Year of completion	Chief Investigator/ co-investigator
1. Collision Induced Rot. Excitation of Interstellar Molecules.	ISRO Bangalore	55,000/-	1987	1990	Dr. M. L. Kurtadikar
2. Laser Raman Spectroscopy	UGC	4,50,000/-	1988	1991	Dr. B. H. Pawar
3. Assembly and Fabrication of Photoelectric Photometer	IUCAA Pune	Travel & Logistic support	1990	1991	Dr. M. L. Kurtadikar Dr. S. K. Popalghat
4. Study of MW Dielectric Properties of Geophysical Materials.	ISRO Bangalore	1,75,000/-	1992	1997	Dr. M. L. Kurtadikar Dr. S. K. Popalghat
5. Propagation Study of X-Band & K-band microwaves through irregular shaped Ridge waveguide.	Dr. B. A. M. Uni. A, bad.	3000/-	1998	1999	Dr. S. K. Popalghat
6. Assembly and Fabrication of CCD Camera for Telescope	IUCAA Pune.	Travel & Logistic support	2000	2001	Dr. M. L. Kurtadikar Dr. S. K. Popalghat
7. Optical Observational Facilities for Photoelectric Photometry.	DST New Delhi	5,21,000/-	2000	2005	Dr. M. L. Kurtadikar Dr. S. K. Popalghat
8. Dielectric Properties of Antarctic Ices.	UGC & NCAOR	44,000/-	January 2003	March 2003	Dr. M. L. Kurtadikar
9. Emissivity of Per Monsoon and Post Monsoon Sea Water.	NCAOR Goa	Travel & Logistic support	2009	2011	Dr. M. L. Kurtadikar Dr. S. K. Popalghat
10. International Observing Campaign of Phonex Observatory USA & supported by American Asso. Of Variable Star Observers (AAVSO) for Photometry of 'Epsilon Aurigae' Star.	AAVSO Support	Project using existing equipments i.e. 12" telescope and photometer	2009	2011	Dr. M. L. Kurtadikar

11. Measurements of Mass attenuation coefficients and range of low energy electrons in compounds and soluble	UGC	70,000/-	Jan. 2008	March 2010	Dr. C. S. Mahajan
12. salts.					
12. Dielectric Study of different Soil texture of Soil from Godavari basin at Microwave frequencies.	UGC	75,000/-	Dec. 2007	Completed.	Dr. H. C. Chaudhari Dr. S. B. Deshmukh
13. Effect of different medium and shape of different medium on characteristics of waveguide using FEM.	UGC	75,000/-	Dec. 2007	Mar, 2010	Dr. S. B. Deshmukh Dr. H. C. Chaudhari
14. Spectroscopy of Epsilon Aurigae Star using IUCAA 2.0 m Telescope. (International Campaign)	IUCAA	Travel & Logistic support	Feb.. 2011	Completed.	Dr. M. L. Kurtadikar
15. Spectroscopy of AZ Casopia Star using IUCAA 2.0 m Telescope (International Campaign)	IUCAA		Feb, March.. 2013	Completed.	Dr. M. L. Kurtadikar
16. Dielectric properties of Soils with organic and inorganic matters at Microwave Frequency.	UGC	1,75,000/-	April 2012	2014	Dr. H. C. Chaudhari Dr. S. B. Deshmukh
17. X-rays Fluorescence cross-section of some 4 rare earth elements in compounds excited by 123 keV gamma rays.	UGC	245000/-	April 2015	2019	Dr. C. S. Mahajan