

## ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence Re accredited by NAAC with A Grade Awarded DBT STAR College Scheme

Noture of Event	
Nature of Event	TVDC - D ' I
(Workshop, Guest Lecture, Addon Course, Seminar, etc.)	TYBSc Project
on course, seminar, etc.)	
Name of Department	Physics
Name of Bepartment	Titysics
Faculty In-Charge	Mr. Pradeep Morajkar
Stratum of Event	With radeep Morajkai
(College, State, Regional,	State
National)	State
Title of Event	Astronomical Telescope Making
	15 <sup>th</sup> March 2024 (Inauguration)
Date of Event	
	St. Xavier's College Mapusa Goa
Venue	Currane, a conseguinapass con
7 0.100	Dr. Reshma Raut Dessai
Resource Person details	Dr. Neshina Nauc Bessar
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	The primary objective was to construct a Newtonian telescope
Objective/ Scope of Event	leveraging the simplicity and efficiency of a Dobsonian mount.
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	The project aimed to provide hands-on experience in telescope
	fabrication, assembly and alignment.
	A group of 8 students from TY BSc Physics constructed an
Particulars of Event	Astronomical Telescope as part of their TY project under the
	guidance of Mr. Pradeep Morajkar, Associate Professor at St.
	Xavier's College, Mapusa - Goa.
	Materials such as the mirrors, eyepiece lenses, viewfinder, and
	laser pointer were sourced online. The tube assembly with all
	the optical fittings was fabricated with a lot of careful
	measuring and constant adjustments. The mount was
	constructed and the optical tube assembly was mounted. The
	collimation and further fine-tuning of the mirrors and lenses
	was done. Three types of eyepiece lenses, namely, planetary,
	Kellner and Barlow lens were utilized interchangeably in line
	with the task at hand. A trial in the form of a sky observation
	was done to be well-versed with the actual functioning of the
	telescope before submission. All this was carried out with
	immense cooperation between the students involved and also
	with the help and support of Mr. Pradeep Morajkar.
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Outcome of Event	Students gained hands-on experience in telescope
	fabrication, assembly and alignment
Feedback	Students understood construction, working and application of
	Astronomical Telescope.
Total No. of Participants	8
Photographs	null, Goa, India HRX5+56M, near Xavier college, Mapusa, Goa 403507, India Long 73.808038° Lat 15.597963° 22/2/2024 11:21 AM