

# Goa University

## School of Physical and Applied Sciences

### Report on Sky Gazing using Reflector Telescope and AI powered Telescope at Goa University

<b>1. Title of the Event/Activity/program</b>	<b>Sky Gazing using Reflector Telescope and AI powered Telescope</b>
<b>2. Date and Time</b>	4 <sup>th</sup> February 2025 07:00 am to 09:30 pm
<b>3. Mode of conduct (Physical/Online)</b>	Physical
<b>4. School/ Directorate/ Section</b>	School of Physical and Applied Sciences (SPAS)
<b>5. Collaborating Agency/School/Directorate</b>	
<b>6. Detail of the Resource Person (Brief biodata)</b>	1. Dr. Reshma Raut Dessai, Assistant Professor in Physics, SPAS Goa University, Visiting Associate of IUCAA Pune
<b>7. Number of Faculty attended/participated</b>	12
<b>8. Number of Student attended / participated</b>	120
<b>9. No. of external students/faculty/other participants</b>	10
<b>10. The objectives of the Program/activity/event</b>	<ul style="list-style-type: none"><li>• To provide stargazing experience and develop understanding of the night sky, stars, planets, constellations, and deep-sky objects.</li><li>• To inspire curiosity about the universe and space. Promote observational skills and scientific thinking.</li></ul>

	<ul style="list-style-type: none"> <li>• To create awareness about light pollution and its impact on astronomy.</li> </ul>
<p><b>11. Description of the Program/activity/event</b></p>	<p>School of Physical and Applied sciences Goa University Organised Sky observation programme on 4<sup>th</sup> February 2025 at international guest house Goa University. The aim of the program was to provide hands on experience of observing stars, planets, nebula, moon and other deep sky object through a reflector telescope and enhance their understanding of celestial objects. The event was attended by more than 130 participants which included students, faculty and other public. Participants had the opportunity to observe various planets, Saturn’s rings, Jupiter’s moons, galaxy, nebula and distant star clusters. Visitors were excited to see the craters on moon, satellites of Jupiter, Ring and bands on the surface of Saturn, Mars and the brightness of Venus. Also got to view birth place of star in orion constellations. The observation through telescope was followed by identifying constellations in the sky and how to locate directions in the sky.</p> <p>Using Seestar telescopes following photographs were taken</p> <ol style="list-style-type: none"> <li>1. Moon and its craters</li> <li>2. Orion nebulae (M42) which is at a distance of 1500 light years.</li> <li>3. Little beehive cluster (M41) open cluster in the constellation of Canis major at 2300 light years away.</li> <li>4. Andromeda galaxy (M31)</li> <li>5. Open cluster in Auriga (M 36)</li> <li>6. ‘Salt and pepper cluster (M37)</li> <li>7. Star fish cluster (M38)</li> </ol> <p>Photographs attached.</p> <p>The Sky Observation Programme was a successful event that provided participants with valuable insights into astronomy and celestial phenomena. Overall, the event was</p>

<b>12. Benefit/Key outcomes of the Program/activity/event</b>	1. Observation of celestial bodies which are light years away. 2. Igniting sense of wonder about space above and its content. 3. encouraging scientific thinking, questioning origin of the Universe.
<b>13. Enclosures with report</b>	Brochure, Notice, Geo-tag photos, Attendance of students/faculty/external participants, Bio Data of resource person (if applicable), Any other information.

*R Desai*

Dr. Reshma Raut Dessai  
Assistant Professor, SPAS



*R.V. Pai*  
Prof. Ramesh V. Pai  
Dean SPAS,  
Seal of the School



# SKY GAZING USING REFLECTOR TELESCOPE & A SMART AI TELESCOPE

Organized by School of Physical and Applied Sciences  
(SPAS) Goa University

VENUE: International Guest House Ground, Goa University

DATE: Tuesday, 4<sup>th</sup> February 2025

Time: 7:00 pm to 8:30 pm

Faculty Coordinator  
Dr. Reshma Raut Dessai

Dean SPAS  
Prof. Ramesh Pai

All are Cordially invited



Photo 1: Setting telescope ready for observation



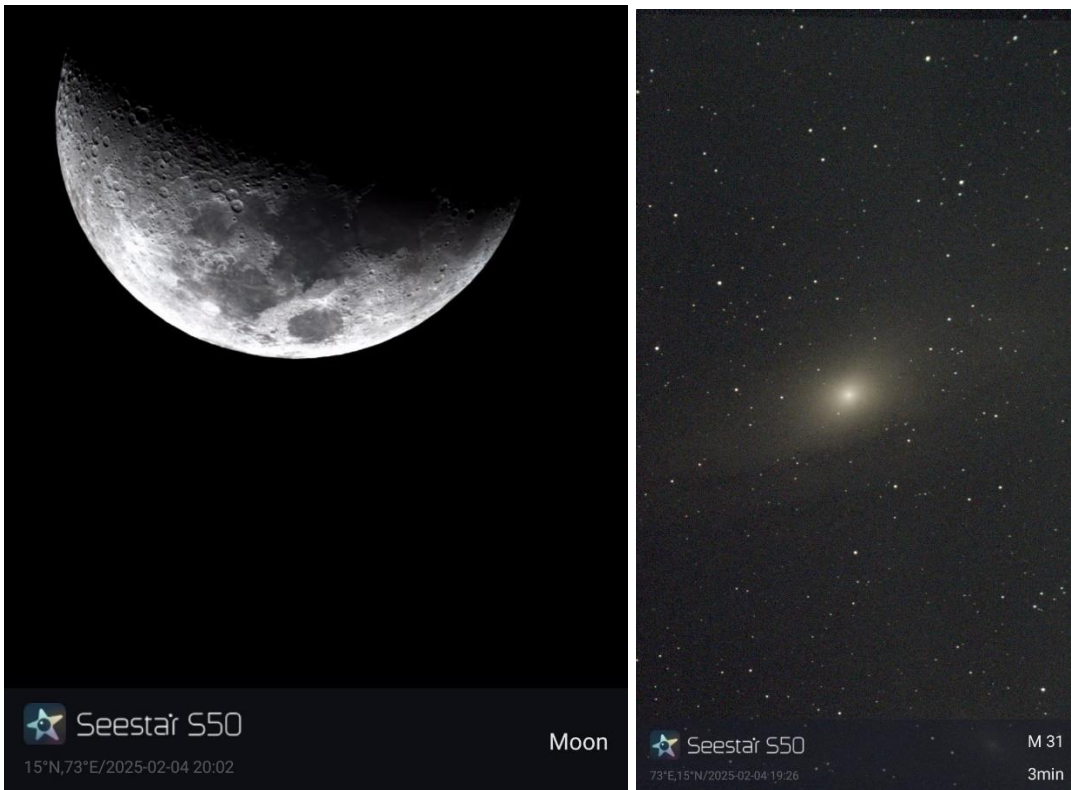
**Photo 2: observation of planet Saturn**



**Photo 3: students gathered near AI telescope for photography**



**Photo 4: Explanation of how to identify constellations**



**Photo 5: Moon and Andromeda galaxy photo using see star S50 telescope**



**Photo 6: Messier objects photo using seestar S50: Orion nebula, M36-open cluster, M37-salt and pepper cluster, M38-star fish cluster**

SCHOOL OF PHYSICAL AND APPLIED SCIENCES, GOA UNIVERSITY, GOA-INDIA

SKY OBSERVATION PROGRAM, SPAS

DATE: 04/02/2025

LOCATION: Near International Guest House, Goa University

Time: 6:30 pm - 9:00 pm

Sr. No	Name of the participant	Affiliation	Signature
1	Imaad A. Shah	SPAS	
2	Rasmita R. Baraulkar	SPAS	
3	Dylan Fernandes	SPAS	
4	Akanksha Kushwaha	SBSB	
5	Tanaya M. Talkar	SPAS	
6	Ravina Patil	SPAS	
7	Krutika Shivolkar	SPAS	
8	Saloni Desai	SPAS	
9	Pujal Gorekar	SPAS	
10	Simon A. Fernandes	SPAS	
11	Govinda Phadte	SPAS	
12	Mihir Naik	Kidzee.	-
13	Nichen Pereira	GMS	
14	Leandra Carvalho	L.C.H.S	
15	Lawrence Carvalho	-	
16	Brandon Fernandes	SPAS	
17	Maria Fernandes	-	
18	Subhanshu S. Padlotkar	SPAS	



19	Sarvesh S. Maik	SPAS	Maik
20	Vazishita Mahuravala	SEOAS	VM
21	Riya Marathe	SEOAS	Maik
22	Ranjita Patil	SPAS	Patil
23	Manjita Gaonkar	SCS	GA
24	Smurti S. Dessai	SCS	SD
25	Priyanka pednekar	SCS	Pednekar
26	Mayuri M Gosain	SPAS	Gosain
27	Jenica Pereira	SPAS	
28	Gretchen Pereira	}	}
29	Harvey Pereira		
30	Kai Pereira		
31	Najmeh Dehkordi	SPAS	Dehkordi
32	Dr. N. NADEEM AFROZE	RC CHEMICAL SCIENCES	AFROZE
33	Dr. I. ABUL KALAM SUROOD	u u u	SUROOD
34	Manjusha Madkaikar	SEOAS	Madkaikar
35	Shruti Mestrey	NID	Mestrey
36	Rishabh Raj	SGSLL	Raj
37	Alpha	SGSLL	Alpha
38	Ritu Raj	SGSLL	Raj
39	Dr Rama Murkunda	SGSLL	Murkunda
40	Aditya Bhangui	SGSLL Hindi	Bhangui
41	Mangurish Patil		Patil
42	Alati Chandsekar	SGSLL Marathi	Alati

43	Seeta Gosavi	SGSLL Marathi	Gosavi
44	Suirta Pagi	SGSLL Konkani	Pagi
45	Dr. Lakshman B	UGC-MMTTC-40	Ch
46	Makesha K.	—    —	Alaw.
47	Dr. Dinesha HC	—    —	Dinesha
48	Harish Gad	SPAS	Yes
49	Poornay Sudhir	"	Yes
50	Rohit Hanchinmani	"	Yes
51	Krupesh Velip	"	Yes
52	Spriten Phaldesai Suharsh	"	Yes
53	Buenima Dhume.	GBS	Dhume
54	Avighna Shintere	Hedgewan School.	Dhume
55	Dr. Maria A. D'Souza	St. Xavier's College.	D'Souza
56	Rhea B. Gonsalves	Red Rosary School Cupra	
57	Rainer J. Gonsalves	Red Rosary School Munim	
58	Shermie Lobo	St. Xavier's day	Lobo
59	Theresa Lobo	—	Lobo
60	Stan Lobo	St. Xavier's college	Lobo
61	Dr. Aniket	SPAS	Yes
62	Pragat Sangadkar	NIO	Pragat
63	Ms. Krishna Patel	SPAS	Yes
64	Mr. Shivan Saut	Zoology Goa University	Saut
65	Dolferna Simoes	SGSLL English	Simoes
66	Madhur Karhyap	Botany (SBSB)	Karhyap

67	Jouia Fernandes	SBSB (Botany)	<u>Jouia</u>
68	Shruvoni Gaonkar	"	<u>Shruvoni</u>
69	Paiti Gaonkar	"	<u>Paiti</u>
70	Wishka Pinto	"	<u>Wishka</u>
71	Anisha Velip	"	<u>Anisha</u>
72	Anisha Lunde	"	<u>Anisha</u>
73	Namita Rane	SPAS	<u>Namita</u>
74	Neha Phadke	SPAS	<u>Neha</u>
75	Anoop Kumar S	MH University	<u>Anoop</u>
76	Shamrao P. Disale	Mumbai University	<u>Shamrao</u>
77	Koshy Tharakan	Philosophy, GU	<u>Koshy</u>
78	Ashe May Koshy	C/o Koshy Tharakan	<u>Ashe</u>
79	Candice Fernandes	—	<u>Candice</u>
80	Shrutikar Lotlikar	—	<u>Shrutikar</u>
81	Dr. Chinmay Bhat	RC, Chemical science from Karnataka	<u>Chinmay</u>
82	Bhargavi H Alami	SPAS, Physics	<u>Bhargavi</u>
83	Gandhar Alami		—
84	Dr. Prjesh S. Virostekar	SCS, Asst. Prof.	<u>Prjesh</u>
85	Somyukta P. Virostekar	child	—
86	Dr. Siddellu Jalun.	SBSB Asst prof	<u>Siddellu</u>
87	Vedantsh Yadav	child	—
88	Sr. Cleis	SPAS	<u>Cleis</u>
89	Harshvardhan Naik	SBSB	<u>Harshvardhan</u>
90	Sujay Rane	SPAS	<u>Sujay</u>

91	Avani Talkattar	SPAS, Goa University	<del>SP</del>
92	samruddhi Gaur	SPAS / Goa University	<del>SP</del>
93	Tejas Dessai	SBSB / GU	<del>SP</del>
94	Purvi Patkar	SCS / GU	<del>SP</del>
95	Dr Geena Venekha	Govt college Bhandra	<del>SP</del>
96	Aaira Curra	Mushtijund, Panjim	<del>SP</del>
97	Sushant Curra	Sanofi, Verna.	<del>SP</del>
98	Dnyaneshwar Ghodap	smt. CHM college, Ulhasnagar Mumbai	<del>SP</del>
99	Junit. B. Tiwale	S.R. College Ghat Sawaji	<del>SP</del>
100	Sakshi Desai	SPAS	<del>SP</del>
101	mt. mathurle Akash S.	S.k.m. college, Jalgaon Latuf mekateshtra	<del>SP</del>
102	Dr. vidyasaragar.c.c	RCCU, Belgaum	<del>SP</del>
103	Dr. Kumar Nand K.M.	RW Belgavi, Kor	<del>SP</del>
104	Dhanashri Ubhayakar	Panjim	<del>SP</del>
105	Vanelikas Ubhayakar	"	<del>SP</del>
106	Shlokas Ubhayakar	"	<del>SP</del>
107	Vijayakshmi Bhat	Panaji	<del>SP</del>
108	Abhata Bhatt	"	<del>SP</del>
109	Vishnu Chari	"	<del>SP</del>
110	Advait Chari		<del>SP</del>
111	Ashvek Sautenehkar	Triumph	<del>SP</del>
112	Daizy Dinello	St. Cruz H.S.S	<del>SP</del>
113	Bhakti Bandekar	St Cruz	<del>SP</del>
114	Shubhankar Bandekar	SPAS, Goa Uni.	<del>SP</del>

115	Adithy B	PhD Marine Science	<del>Adithy</del>
116	Rosaki Kulkarni	M.A.	<del>Adithy</del>
117	Abhidy Ajila	MSc Marine Sci	<del>Adithy</del>
118	Anant R. Mahale	Marine Egg.	<del>Adithy</del>
119	Anuja A. Mahale	Advocate	<del>Adithy</del>
120	Haridhar A. Mahale	-	-
121	Sreela kshmi	Msc. Applied geology	<del>Adithy</del>
122	Miya	"	<del>Adithy</del>
123	Abhirami,	"	<del>Adithy</del>
124	Adi Adithyan	"	<del>Adithy</del>
125	B. Pahari +1	PhyS.	<del>Adithy</del>
126	Adithyakrishna. M	MSc physics -1	<del>Adithy</del>
127	Amesha Fernandes	MSc-geology -II	<del>Adithy</del>
128	Shyam	explet	<del>Adithy</del>
129	Amrita N. Vekhan	SCS, GV	<del>Adithy</del>
130	Narayan Vekhan	SPAS, GV	<del>Adithy</del>
131	Nitin Dasnolkar	NIO	<del>Adithy</del>
132	Aadi Dasnolkar	Dr. G.B. Hegde	<del>Adithy</del>
133	Adrat Dasnolkar	Mushifund school	<del>Adithy</del>
134	Saurabh	CSIR Cp	<del>Adithy</del>
135	Piyanki	CSIR complex	<del>Adithy</del>
136	Rohma Raut Dassa	SPAS, Phy	<del>Adithy</del>
137			
138			