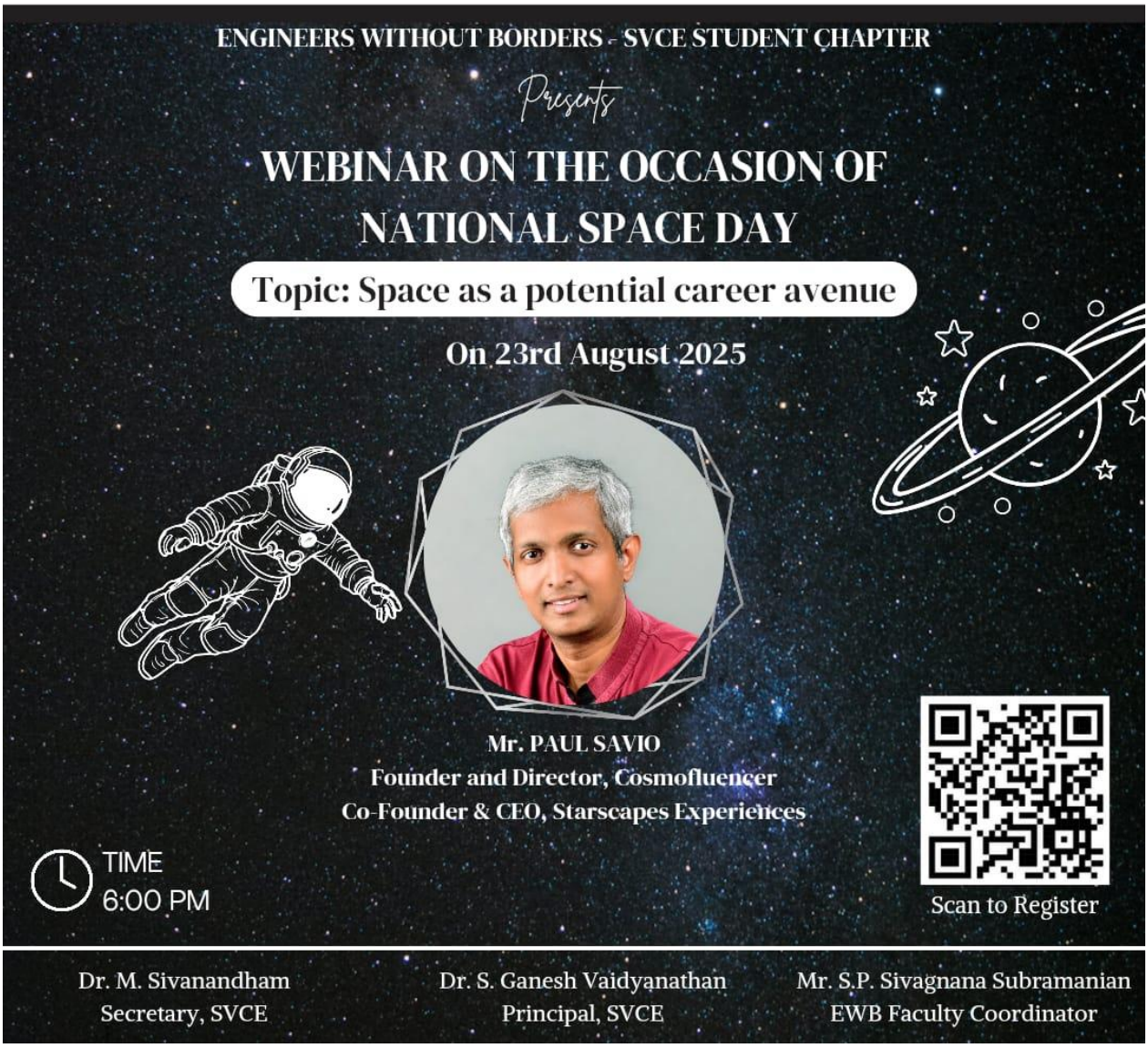
Engineers Without Borders – SVCE Student Chapter

National Space Day Guest Lecture

Event Report



On August 23, 2025, the EWB-SVCE Student Chapter organized a Guest Lecture on the occasion of National Space Day. The event was conducted online at 6:00 p.m. and witnessed enthusiastic participation from students and faculty members across disciplines.

The primary objective of the session was to provide insights into “Space as a Potential Career Avenue”, helping students understand the growing opportunities in space science, astronomy, and related industries. The program was hosted by Ms. Shanjana – Creative Director, EWB-SVCE, who welcomed the participants with an inspiring introduction, highlighting the endless possibilities that space exploration offers to aspiring engineers.

The session was graced by the presence of the distinguished Guest Speaker, Mr. Paul Savio, Head of Business – Space, IoT and Robotics at Centilan, Melbourne, and Founder of Cosmofluencer and Starscapes. The faculty coordinator, Mr. S.P. Sivagnana Subramanian, Assistant Professor – ECE, introduced the guest speaker, outlining his contributions to astronomy outreach, education, and entrepreneurship.

In his keynote address, Mr. Paul Savio shared his journey from an engineering background to entrepreneurship in astronomy and space-related initiatives. He elaborated on the evolution of the global space industry, the role of private enterprises in reducing launch costs, and the importance of interdisciplinary skills. He emphasized that careers in space are not restricted to aerospace engineering but extend to computer science, biotechnology, robotics, data science, and material sciences.

He also underlined the significance of microskilling and continuous learning, encouraging students to remain adaptable to emerging technologies. Through engaging real-world examples, Mr. Savio demonstrated how space exploration is ultimately aimed at improving life on Earth—especially in communication, healthcare, climate monitoring, and manufacturing.

Mr. Savio provided a comprehensive overview of the global space economy, noting that its value more than doubled between 2007 and 2022. Projections suggest it may reach nearly US$800 billion by 2027 and potentially exceed US$1 trillion by 2032. In 2024, the commercial sector accounted for 78% of the market ($613 billion), while government contributions made up 22%.

Major Themes Covered:

1. Technological Advancements – Growth of AI/ML, advanced communication systems, 5G networks, nuclear propulsion, robotics, and 3D printing in space missions.

2. Economic Momentum – Rising government space budgets and a rebound of commercial investments (US$12.5 billion in 2023).

3. Emerging Markets and Applications – In-orbit servicing, manufacturing, debris removal, space traffic management, and civil space programs like Artemis.

4. Public-Private Partnerships – The pivotal role of agencies like NASA and ISRO in enabling commercial growth through grants, contracts, and collaborations.

5. Challenges Ahead – Increasing space debris in Low Earth Orbit, outdated governance frameworks, geopolitical competition, and the shortage of skilled workforce.

6. Skills for the Future – Strong foundations in math, physics, and programming (Python, MATLAB, SQL, C++), along with interdisciplinary expertise in biotechnology, materials, and advanced manufacturing.

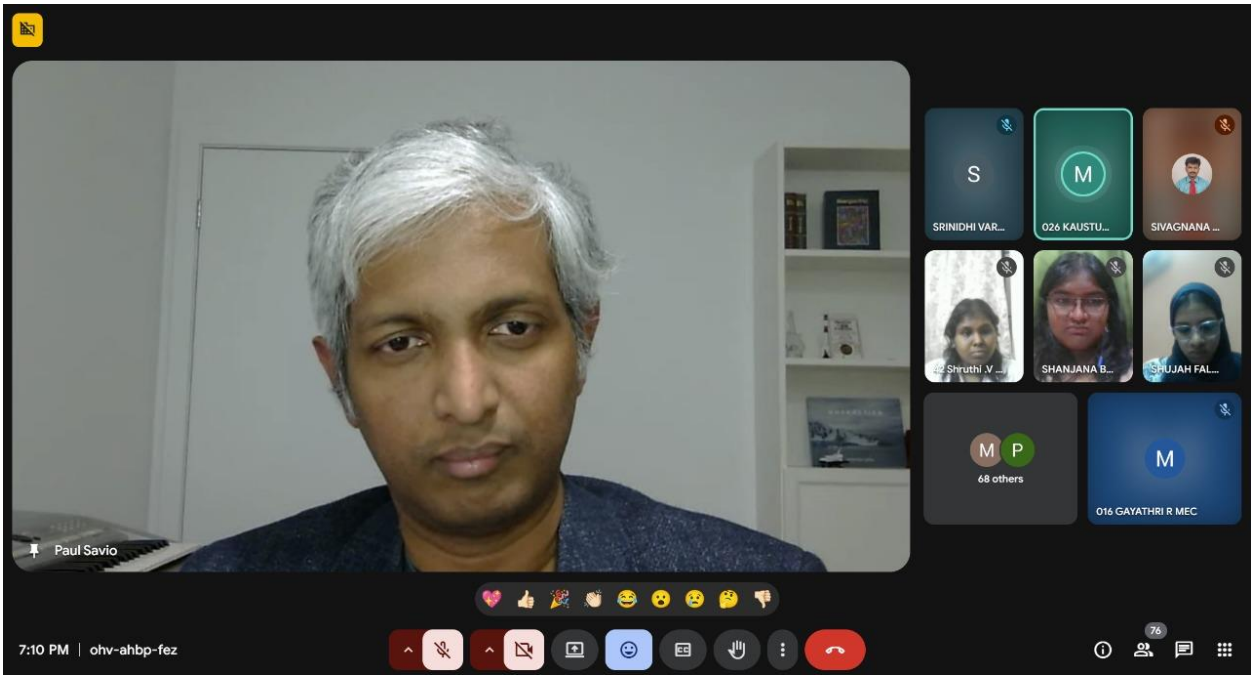
An engaging Q&A session followed, where students asked thought-provoking questions on:

- India's prospects for reusable launch vehicles,
- The management of orbital debris,
- Suitable programming languages for space research, and
- The societal justification of space exploration.

Mr. Savio's thoughtful responses highlighted both the challenges and the vast opportunities in the space sector, leaving participants motivated to explore careers in this rapidly growing field.

The event concluded with a Vote of Thanks delivered by Ms. Gayathri – General Secretary, EWB-SVCE, who expressed gratitude to the guest speaker, the faculty coordinator, the organizing committee, and the participants for making the session successful.

Overall, the National Space Day Guest Lecture successfully combined career guidance with deep technical insights, sparking curiosity, innovation, and ambition among students. The event provided valuable exposure to the emerging opportunities in the global space ecosystem and reinforced the chapter's mission of empowering students to apply engineering for meaningful global impact.National Space Day – Guest Lecture Report


Paul Savio
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68 others
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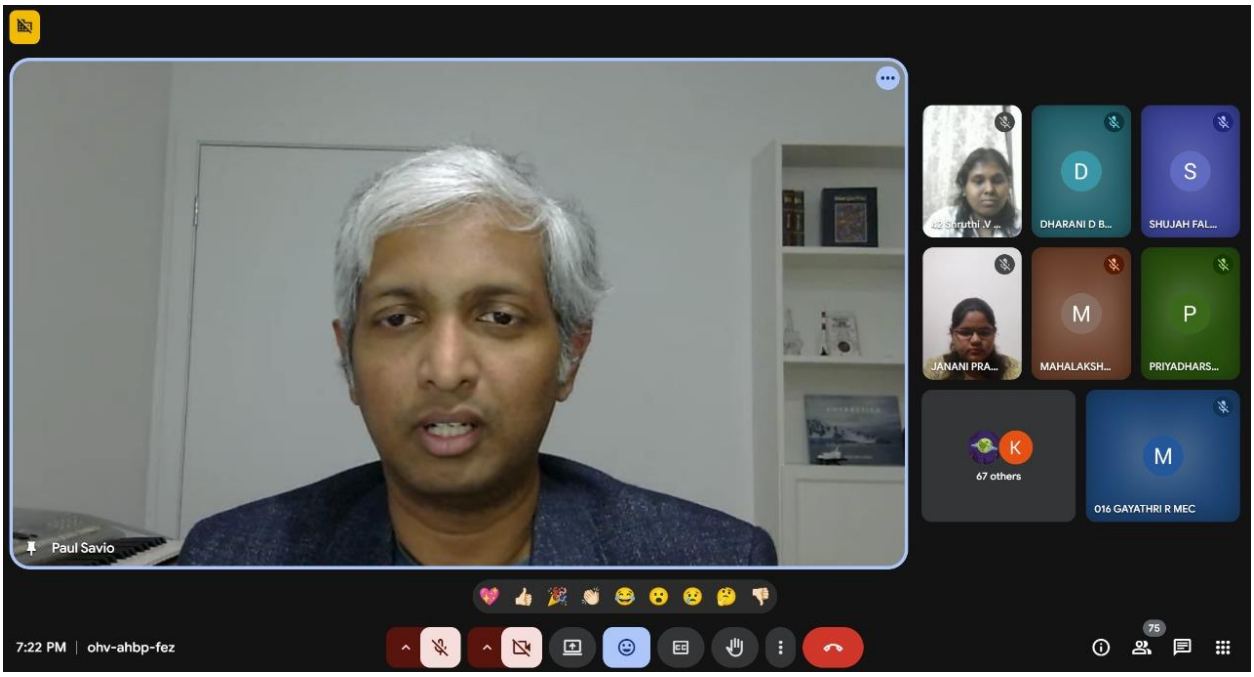
Paul Savio
DHARANI D B...
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JANANI PRA...
MAHALAKSH...
PRIYADHARS...
67 others
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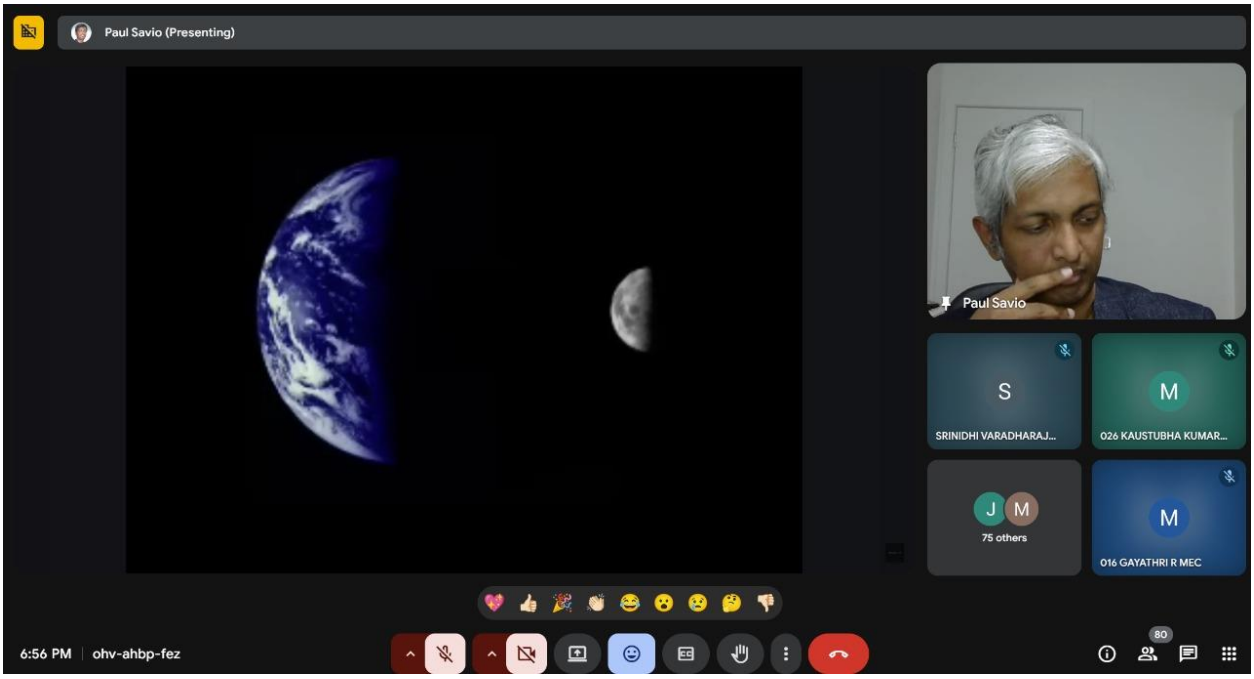
Paul Savio (Presenting)
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75 others
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016 GAYATHRI R MEC
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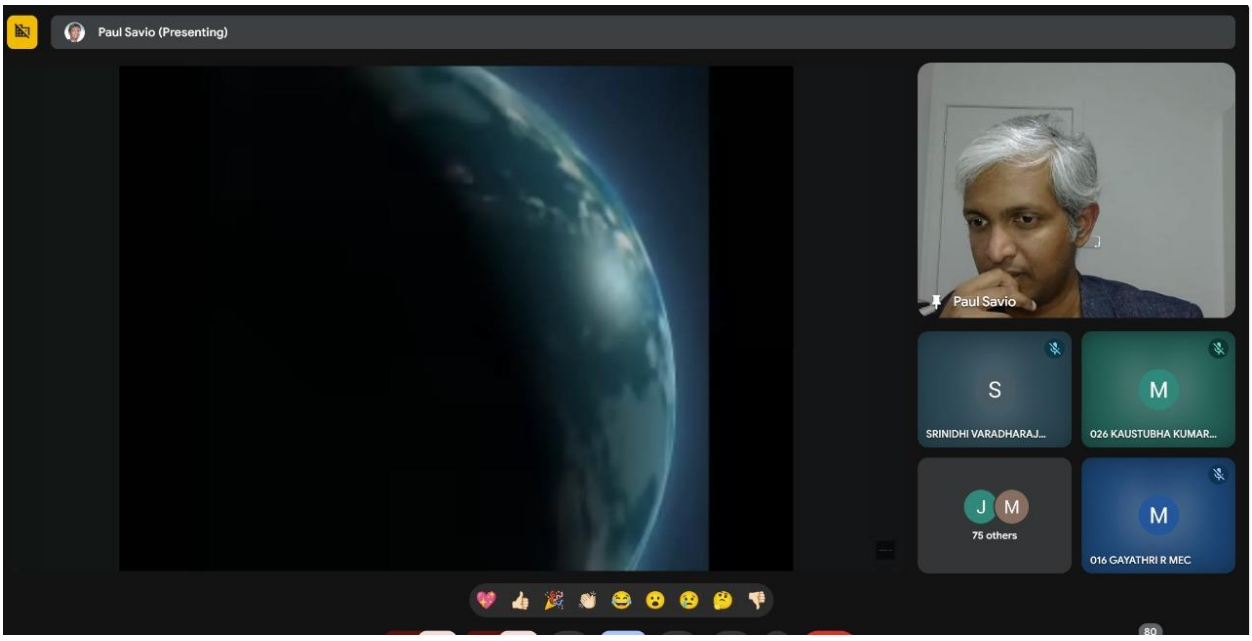
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75 others
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Avg Attendance

46 min 59s

Report Accuracy

100%

Report Summary

Meeting Name	Meeting Duration	Meeting Date
ohv-ahbp-fez	54 min 16s	23-Aug-2025

Meeting Time	Total Participants
6:13:51 PM to 7:08:55 PM	92

Participant's List

S.No	Participant name	First Seen At	Attended duration	Attended percentage
1	005 AKSHAY V MEC	6:25:30 PM	0 min 40s	2%
2	005 BALAMURUGAN L ME	6:14:45 PM	53 min 23s	99%
3	016 GAYATHRI R MEC	6:13:52 PM	54 min 16s	100%
4	026 KAUSTUBHA KUMAR MANCHI MEC	6:13:52 PM	54 min 16s	100%
5	030 MURUGA NATRAJ V ME	6:40:44 PM	26 min 10s	49%
6	031 NEMALAN P ME	6:13:52 PM	54 min 16s	100%
7	032 NEVIN BENNY NALKKARA ME	6:13:52 PM	54 min 16s	100%
8	033 PALANICHANDAR RAMALINGAM ME	6:13:52 PM	54 min 16s	100%
9	048 SRIJAN L ME	6:13:52 PM	54 min 16s	100%
10	42 SHRUTHI .V BT	6:13:52 PM	54 min 16s	100%

11	AADITHYA R CSE	6:13:52 PM	54 min 16s	100%
12	ANURADHA L IT	6:33:37 PM	34 min 31s	64%
13	ARUNA ARUNACHALAM CSE	6:13:52 PM	54 min 16s	100%
14	BALAGURU K EEE	6:13:52 PM	54 min 16s	100%
15	BARATH S CSE	6:13:52 PM	54 min 3s	100%
16	D MONA SHREE AI&DS	6:13:52 PM	54 min 16s	100%
17	DEEPIKA KANNAN BIOTECH	6:13:52 PM	23 min 10s	43%
18	DEVADHARSHINI S A ECE	6:13:52 PM	54 min 16s	100%
19	DHARANI D BIOTECH	6:13:52 PM	53 min 51s	100%
20	DURGESH S K CHEM	6:13:52 PM	52 min 56s	98%
21	GOKUL A CE	6:13:52 PM	54 min 16s	100%
22	GOKUL S BIOTECH	6:13:52 PM	53 min 58s	100%
23	GRISLER PAUL J ECE	6:13:52 PM	49 min 49s	92%
24	HARI KESAVAN R ECE	6:13:52 PM	54 min 16s	100%
25	HIRTHIK MAGESHKUMAR BIOTECH	6:13:52 PM	54 min 16s	100%
26	ISAIAH ISRAEL MECH & AUTO ENGG	6:13:52 PM	54 min 16s	100%
27	IVANA HESPER B BIOTECH	6:23:00 PM	45 min 8s	84%
28	J U UMABARATHI CSE	6:13:52 PM	54 min 16s	100%
29	JANANI PRAKASH CSE	6:13:52 PM	54 min 16s	100%
30	KARNAN S IT	6:13:52 PM	54 min 16s	100%
31	KAVIMALAR A P BIOTECH	6:13:52 PM	54 min 16s	100%
32	KAVIYA T BIOTECH	6:13:52 PM	51 min 39s	96%
33	LINGESH L IT	6:29:01 PM	38 min 39s	72%
34	M B MILANI JONES EEE	6:13:52 PM	54 min 16s	100%
35	M LIKITHA BIOTECH	6:13:52 PM	51 min 57s	96%
36	M PRANAYA BIOTECH	6:13:52 PM	44 min 53s	83%
37	MADHUMITHA K R EEE	6:13:52 PM	54 min 16s	100%
38	MAHALAKSHMI L ECE	6:13:52 PM	54 min 16s	100%

39	MAHALAKSHMI LAKSHMANAN EEE	6:43:10 PM	0 min 32s	1%
40	MERIN AASHIKA A IT	6:37:43 PM	30 min 31s	57%
41	MIRTHUN K S CSE	6:13:52 PM	15 min 10s	28%
42	MUGIL E K EEE	6:13:52 PM	54 min 16s	100%
43	N YAAZHINII ECE	6:13:52 PM	54 min 16s	100%
44	NANDA KISHORE SREEJITH CSE	6:20:55 PM	47 min 13s	88%
45	NANDHAGOPAL B ECE	6:13:52 PM	54 min 16s	100%
46	NANTHA KISHORE S CSE	6:13:52 PM	15 min 56s	30%
47	NASRIN BANU M A IT	6:13:52 PM	54 min 16s	100%
48	NIVETHETHA V BIOTECH	6:13:52 PM	54 min 16s	100%
49	PAUL SAVIO	6:13:52 PM	54 min 16s	100%
50	PAYAL IT	6:13:52 PM	54 min 16s	100%
51	PRIYADHARSHINI U CSE	6:13:52 PM	54 min 16s	100%
52	R RESHMA BT	6:13:52 PM	53 min 56s	100%
53	RAMANAN P B EEE	6:13:52 PM	54 min 16s	100%
54	RASIGA P CHEM	6:13:52 PM	54 min 16s	100%
55	RITHVIK R ECE	6:19:30 PM	48 min 31s	90%
56	ROHITH KANNA S ECE	6:17:54 PM	16 min 29s	31%
57	ROHITH KUMAAR P IT	6:30:22 PM	37 min 31s	70%
58	ROSHINI S CSE	6:25:02 PM	20 min 32s	38%
59	S A CARLOS JOSHUA CSE	6:19:46 PM	48 min 22s	90%
60	SABANA V CSE	6:23:24 PM	44 min 44s	83%
61	SAKTHIVEL S AI&DS	6:13:52 PM	53 min 44s	100%
62	SANJUTHA S AI&DS	6:27:14 PM	40 min 54s	76%
63	SANTHOSH K CSE	6:13:52 PM	54 min 16s	100%
64	SARABHESWARAN E S ECE	6:13:52 PM	54 min 16s	100%
65	SARANYA E CSE	6:36:14 PM	0 min 27s	1%
66	SARVESVARAN P S CIVIL	6:13:52 PM	32 min 27s	60%
67	SEDHURAMAN S ECE	6:13:52 PM	54 min 16s	100%
68	SHANJANA B BIO	6:13:52 PM	54 min 16s	100%

69	SHEMINA S AI&DS	6:13:52 PM	52 min 34s	97%
70	SHREYA V IT	6:13:52 PM	53 min 3s	98%
71	SHRUTHI S EEE	6:13:52 PM	54 min 16s	100%
72	SHUJAH FALEHAH MARIAM BIO	6:13:52 PM	53 min 23s	99%
73	SIVAGNANA SUBRAMANIAN S P ECE	6:13:52 PM	54 min 16s	100%
74	SIVARANJANI S AI&DS	6:13:52 PM	53 min 3s	98%
75	SREE VARSHA A S AI&DS	6:38:03 PM	30 min 11s	56%
76	SRINIDHI VARADHARAJAN BIO	6:13:52 PM	54 min 16s	100%
77	SRIVIKASINI V AI&DS	6:13:52 PM	54 min 16s	100%
78	SUDESH SHRIKANT PILLAI ECE	6:13:52 PM	54 min 16s	100%
79	SURYA K ECE	6:13:52 PM	41 min 27s	77%
80	SUSHIL KUMAAR S BIOTECH	6:13:52 PM	54 min 16s	100%
81	T HARITHA BIOTECH	6:13:52 PM	54 min 16s	100%
82	TEJASHREE G AI&DS	6:13:52 PM	54 min 16s	100%
83	THANNIGAIPRIYA PS EEE	6:13:52 PM	38 min 17s	71%
84	THENMATHI T CSE	6:15:54 PM	34 min 57s	65%
85	V RAGHAV CSE	6:13:52 PM	51 min 46s	96%
86	VANISHREE G ECE	6:13:52 PM	51 min 26s	95%
87	VARUNAN K ECE	6:24:25 PM	43 min 43s	81%
88	VASUKI P EEE	6:18:05 PM	50 min 3s	93%
89	VICKKRAMAN KRISHNAMURTHY ECE	6:13:52 PM	48 min 28s	90%
90	YESESWINI S AI&DS	6:18:12 PM	49 min 56s	93%
91	YOGAVARSHINI M CSE	6:37:09 PM	31 min 5s	58%
92	YORICK BRADLEY P ECE	6:13:52 PM	54 min 16s	100%

FEEDBACK FROM ATTENDEES

What did you infer from the lecture?

1. It was very useful to know how careers related to space science, technology, and exploration can shape one's future.
2. I learned more about astronomy and I was also able to know that many other fields of engineering other than aerospace can also be part of this and soon will be have high demand there.
3. Learned about space
4. Astronomy and space
5. I got info even computer science student pursue space sector jobs
6. It was very nice experience to listen the speaker knowledge
7. National Space Day reminds us of India's great achievements in space exploration and It inspires students and scientists to dream beyond the skies.
8. Future insights
9. Space and exploration
10. I learn many things from this lecture about what don't know about the space and so many.
11. From the lecture, I understood that the space industry offers vast and diverse career
12. Opportunities. It highlighted how students can shape their future by exploring roles in science, technology, and innovation in space.
13. An idea for my project and assurance.
14. Learned lot of interesting things about space technology
15. The webinar was so interesting and interactive. The guest speaker spoke about the space and about the organization and which domain are the space companies recruiting.
16. I learned that the space industry offers diverse career opportunities beyond research, including startups and outreach from Mr. Paul Savio. The session inspired me to see space as an exciting field for the future.

17. About the astronomy and space

18. I learnt many new thing about space research....

19. From the lecture, I inferred that EWB club is fastly growing and giving opportunities to develop our skills.

20. I got more knowledge about space research.

21. About the space I have learnt more about it

22. All new ways for engineering to be developed in aerospace.

23. Basically i am an aspiring person on space exploration so from this lecture i learnt that no science background alone is for space career also an tech person do to that

24. The wide scope for the astronomy and also even biotechnologist who has interest in astronomy can pursue their career aligned with their interest

25. The session made me understand that students from various different departments can explore about space also.

26. Real life examples and practical application used helped in understanding the concept and build more curiosity about space technology

27. Career guidance

28. Some scientific things

29. My inference include upcoming skill development trends in workplace to stay up to date on selective or niche fields

30. I learn more about space field. I come to know that my field also plays a major role after attending this lecture.

31. About air India business ideas

32. The lecture paved ways for me to think about a possible career in relations to space which I have been pondering over.

33. It was good and informative

34. I got to know many interesting facts about space , so I formative lecture

35. How to start the career on space

36. Got to know what's out there for me as a career in space

37. The lecture highlighted the vast and growing opportunities in the space industry, extending beyond just becoming an astronaut. It emphasized the importance of STEM education and the diverse roles available in engineering, research and more. Overall, the session inspired students to dream big and explore space as a meaningful and achievable path.

38. I got to know about the different fields that play major roles in space industry other than aerospace engineering. Also the session provided information on realizing the purpose of one's work which in turn help build the career.

39. Nothing

40. Learned some ideas about how will be the future space mechanism will be working and what they will focus about

41. Got the overall picture about space workplace and got insights about various domains in it. The session was not highly technical, it just felt like a chill conversation that conveys practical reality of space organizations. The session was highly engaging!

42. There are opportunities for everyone if we constantly upgrade ourselves

43. That it's not too difficult to get into space.

44. I gained more knowledge

45. It was a really informative one and came to know lot about space

Any additional comments or suggestions for the EWB-SVCE team?

1. Nil
2. No
3. Nothing
4. Conduct more sessions
5. No
6. Useful
7. Conduct more webinars
8. Happy to see webinars online but try to make offline sessions so that interaction would be more lively. But this session was really good was able to know something about astronomy
9. NA
10. You're doing great job
11. Thank You for this beautiful lecture and Thank You for your team.
12. Great, i would love to join EWB
13. They work great
14. Conduct more webinars and seminars that would be very useful for us
15. no
16. Good
17. Good session
18. Can provide more about information on space carrer
19. Good and informative session
20. Good ☺ keep it up
21. This is an amazing team
22. Keep more guest lecture like this. It helps to many students.
23. -
24. No I am happy to be part of this team
25. Perfect session. Thank you
26. No it was very informative
27. More like these are welcome!
28. It would be great if many sessions like these are arranged on different fields with speakers like sir paul savio. Unlike other sessions with boring lectures this made us listen and was very informative.
29. Nothing
30. The session is very helpful
31. Conduct more such online webinars related to space and even in other domains. Try to provide e-certificates and PCD hours for non EWB members as well.
32. None
33. It could have more extended session

S.P. Sivagnana Subramanian

Faculty Coordinator

EWB – SVCE Student Chapter