

NATIONAL SPACE DAY

INDIA'S SPACE ACHIEVEMENTS

ORGANISED BY
STUDENTS INNOVATION COUNCIL
GITW - BENGALURU

30.09.2024



MS SRINIVASAN
FORMER GROUP DIRECTOR
POWER SYSTEMS, UR RAO SATELLITE CENTRE,
ISRO BANGALORE



080-25536527

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REPORT ON NATIONAL SPACE DAY

Visvesvaraya Technological University

Jnana Sangama, Belagavi-590 014, Karnataka, India



Chief Guest

MS SRINIVASAN

**Former Group Director Power Systems, UR Rao Satellite Centre,
ISRO Bangalore**

On 30th September 2024

A Report Prepared By

STUDENTS INNOVATION COUNCIL-GITW BENGALURU



**GHOUSIA INSTITUTE OF TECHNOLOGY
FOR WOMEN**

Near Dairy Circle, Hosur Road, Bengaluru-560029, KARNATAKA
Affiliated to VTU., Belagavi, Recognized by Government of Karnataka & A.I.C.T.E., New Delhi



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STUDENTS INNOVATIVE COUNCIL-GITW BENGALURU

Minutes of Meeting

SIC-GITW/MOM/11th September 2024

Attendees:

SN	Name	Designation	Signature
1	MRS. RUKSANA BANU Asst. Professor, Dept. of Computer Science Engg.	Convener	
2	DR. MOHAMMED NAVEED Asst. Professor, Dept. of Mechanical Engg.	Co-Ordinator	
3	DR. PARVEEZ AHMED H.M Professor, Dept. of Chemistry	Staff Member	
4	DR. MUNEER BASHA H Professor, Dept. of Mathematics	Staff Member	
5	DR. ZAHEERUDDIN Asst. Professor, Dept. of Physics	Staff Member	
6	MRS. JIBI P. JOHN Asst. Professor, Dept. of Computer Science Engg.	Staff Member	
7	Ms. AFIYA ZUHA	Student Member	
8	MS. AYESHA QURATAUL AIN	Student Member	
9	Ms. AYMAN SIDDIQA	Student Member	
10	Ms. BUSHRA FATIMA	Student Member	
11	Ms. DHANUSHREE	Student Member	
12	Ms. FARHEEN FIRDOUS	Student Member	
13	Ms. KULSUM F	Student Member	
14	Ms. RABIYA UZMA SA	Student Member	
15	Ms. SARA SALITH	Student Member	
16	Ms. UMME KAUNAIN HURERA	Student Member	
17	Ms. WAJEEHA KHAN	Student Member	
18	Ms. ZAINAB TAJ	Student Member	



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STUDENTS INNOVATIVE COUNCIL-GITW BENGALURU

Meeting Agenda and Proceedings

Date: 11-09-2024

Time: 3:10 PM

Convener: Mrs. Ruksana Banu

Agenda:

1. Introduction and Welcome
2. Discussion of Event Ideas
3. Announcement of Next Meeting

Meeting Proceedings:

1. Introduction and Welcome

The meeting commenced at 3:10 PM, chaired by the Convener. All attendees were warmly welcomed, and the agenda was unanimously approved.

2. Discussion of Event Ideas

Event: National Space Day

The tasks related to the event, as discussed in the previous meeting, were assigned to the respective team members. The responsibilities were allocated as follows:

- **Hosting:** Ms. Wajeeha Khan and Ms. Rabiya Uzma
- **Khirat:** Ms. Umme Kulsum T and Ms. Aiyman Siddiqua
- **Posters:** Ms. Wajeeha Khan and Ms. Zainab Taj
- **Certificates and Feedback Forms:** Ms. Afiya Zuha and Ms. Bushra Fathima
- **Google Forms:** Ms. Dhanushree
- **Report:** Ms. Kulsum F and Ms. Zainab Taj
- **Letter of Invitation:** Ms. Rabiya Uzma and Ms. Kaunain Hurera
- **Photos and Videos:** Ms. Umme Kulsum T
- **Vote of Thanks:** Ms. Farheen Firdous

3. Announcement of Next Meeting

The next meeting is scheduled for 18th September 2024.

Meeting Adjourned.



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STUDENTS INNOVATIVE COUNCIL-GITW BENGALURU

Minutes of Meeting

SIC-GITW/MOM/18th September 2024

Attendees:

SN	Name	Designation	Signature
1	MRS. RUKSANA BANU Asst. Professor, Dept. of Computer Science Engg.	Convener	
2	DR. MOHAMMED NAVEED Asst. Professor, Dept. of Mechanical Engg.	Co-Ordinator	
3	DR. PARVEEZ AHMED H.M Professor, Dept. of Chemistry	Staff Member	
4	DR. MUNEEB BASHA H Professor, Dept. of Mathematics	Staff Member	
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STUDENTS INNOVATIVE COUNCIL-GITW BENGALURU

Meeting Agenda and Proceedings

Date: 18-09-2024

Time: 3:10 PM

Convener: Mrs. Ruksana Banu

Agenda:

1. Introduction and Welcome
2. Discussion of Event Ideas
3. Announcement of Next Meeting

Meeting Proceedings:

1. Introduction and Welcome

The meeting commenced at 3:10 PM, chaired by the Convener, SIC-GITW. All attendees were warmly welcomed, and the agenda was unanimously approved.

2. Discussion of Event Ideas

Event: National Space Day

The tasks assigned to students in the previous meeting were reviewed and confirmed by the attendees present. The following deadlines were set for the completion of key deliverables:

Google Forms, Certificates, Feedback Forms, Posters, and Invitations: Deadline is 23rd September 2024 (Monday), which coincides with the next meeting.

The meeting concluded with a vote of thanks delivered by Mrs. Ruksana Banu, Assistant Professor, Department of CSE.

3. Announcement of Next Meeting

The next meeting is scheduled for 23rd September 2024.

Meeting Adjourned.



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"Join us in celebrating Space Day 2024 on September 30th, organized by SIC-GITW! We invite all faculty and students for an exciting day of exploration and innovation. Your participation will be key to the event's success—don't miss out!"



CHIEF GUEST :

SRINIVASAN MARGASAHAYAM

Former Group Director, Power' Systems Group at URSC,
ISRO Bangalore



Ms. WAJEEHA KHAN

**Student Coordinator
SIC-GITW**



Ms. ZAINAB TAJ

**Student Coordinator
SIC-GITW**



Mrs. Ruksana Banu

**Assistant Professor
Convener, SIC-GITW**



Dr. H.M. Parveez Ahmed

**Convener Induction Prog.
HOD of Chem Dept**



Dr. Mohammed Naveed

**Assistant Professor
Event Coordinator, SIC-GITW**



Dr. Faheem Ahmed Khan

**Principal
GITW**



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SIC/GITW/27th SEPTEMBER-24/ Ref.No:

To:

MS Srinivasan

Former Group Director
Power Systems,
UR Rao Satellite Centre,
ISRO Bengaluru.


Respected Sir,

I formally invite you to be the guest speaker at **“National Space Day”**, hosted by students of innovative club, on **30/09/2024** at our college. The event is scheduled at **10:00 am**, and it would be a great honour for us to have you deliver a keynote address.

Given your distinguished career and expertise, we believe your insights would provide exceptional value to our attendees. Your presence as our guest speaker would significantly enhance the calibre of the event, and we are confident that your contribution will leave a lasting impact on the audience.

Thank you for considering this invitation. We sincerely hope you will be able to join us and look forward to hearing from you soon.

With warm regards,


Dr. Faheem Ahmed Khan

PRINCIPAL

Ghousia Institute of Technology for Women
Hosur Road, Bangalore-560029



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NATIONAL SPACE DAY

PROGRAM SCHEDULE

SL NO	Session Name	Speaker/Host
1.	Program Hosting	Ms. Wajeeha Khan & Ms. Ruchita.
2.	Invocation	Ms. Ameena Taj & Ms. Umme Kulsum T
3.	Shlokas	Ms. Dhanushree R
4.	Welcome and Felicitation	Dr. HM Parveez Ahmed.
5.	Welcome Address	Mr. MS Srinivasan
6.	Presidential Address	Dr. Faheem Ahmed Khan.
7.	Keynote address	Mr. MS Srinivasan
8.	Vote of Thanks	Mrs. Ruksana Banu.



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NATIONAL SPACE DAY

1. Introduction

The National Space Day Special Seminar, organized by Ghousia Institute of Technology for Women, was a landmark event dedicated to celebrating India's extraordinary accomplishments in space exploration. With a particular emphasis on the Indian Space Research Organisation (ISRO) and its pioneering Chandrayaan missions, the seminar aimed to inspire and educate students about the advancements, challenges, and future prospects of space technology.



The event featured an enlightening keynote address by Mr. M.S. Srinivasan, a distinguished scientist from ISRO, who provided a comprehensive overview of India's lunar exploration endeavours. His session delved into the technical intricacies and scientific breakthroughs of the Chandrayaan missions, with a special focus on Chandrayaan-3, India's third lunar exploration mission. The seminar not only highlighted India's contributions to space science but also encouraged students to

pursue careers in STEM fields, fostering a spirit of innovation and curiosity.

This report provides a detailed account of the seminar, encapsulating the event proceedings, key discussions, and the profound impact it had on the attendees.

2. Event Proceedings

2.1 Program Hosting

The seminar commenced with an energetic and engaging introduction by *Ms. Wajeetha Khan* and *Ms. Ruchita P*, who served as the event hosts. Their articulate and enthusiastic hosting set a vibrant tone for the day, ensuring seamless transitions between sessions and maintaining the audience's interest throughout the event.



2.2 Invocation

The formal proceedings began with an invocation led by *Ms. Ameena Taj* and *Ms. Kulsum F.* This spiritual opening sought blessings for wisdom, knowledge, and success, setting a reflective and purposeful atmosphere for the seminar.



2.3 Shlokas Recitation

Following the invocation, *Ms. Dhanushree R* recited traditional Shlokas, infusing the event with cultural and spiritual significance. This segment underscored the importance of balancing scientific pursuits with cultural and ethical values.



2.4 Welcome and Felicitation

Dr. H.M. Parveez Ahmed, the convener of the event, extended a warm welcome to the dignitaries, faculty, and students. He also felicitated the Chief Guest, Mr. M.S. Srinivasan, acknowledging his remarkable contributions to ISRO and his pivotal role in advancing India's space exploration initiatives.



2.5 Welcome Address

Mr. Shrinivasan MS delivered the Welcome Address, emphasizing the transformative impact of space exploration on scientific and technological progress. He highlighted India's growing prominence in the global space arena and encouraged students to explore the myriad opportunities in space science and technology.



2.6 Presidential Address

Dr. Faheem Ahmed Khan, the Principal of Ghouseia Institute of Technology for Women, delivered the Presidential Address. In his speech, he underscored the importance of research, innovation, and scientific curiosity in shaping the future of space exploration. He urged students to embrace STEM disciplines and contribute to India's journey toward becoming a global leader in science and technology.



His presentation covered the following key aspects:



- ❖ **Chandrayaan-1:** Launched on October 22, 2008, Chandrayaan-1 was India's first lunar mission and a landmark achievement in space exploration. The mission aimed to map the Moon's surface, study its mineral composition, and search for water ice in the polar regions. Equipped with 11 scientific instruments, including the Moon Mineralogy Mapper (M3) and the Terrain Mapping Camera (TMC), Chandrayaan-1 made groundbreaking discoveries, such as the presence of water molecules (H₂O) and hydroxyl (OH) on the lunar surface. The mission also confirmed the existence of lunar magma oceans and provided high-resolution images of the Moon's topography. Although the mission was initially planned for two years, it was terminated prematurely in August 2009 due to communication loss. Nevertheless, Chandrayaan-1 laid the foundation for India's future lunar missions and established ISRO as a key player in global space exploration.
- ❖ **Chandrayaan-2:** Launched on July 22, 2019, Chandrayaan-2 was a highly ambitious mission aimed at achieving a soft landing near the Moon's south pole, a region unexplored by any other nation. The mission consisted of an orbiter, lander (Vikram), and rover (Pragyan). While the orbiter successfully entered the Moon's orbit and continues to provide valuable data, the lander encountered challenges during its descent and lost communication just 2.1 kilometers above the lunar surface. Despite the partial setback, Chandrayaan-2 was a significant milestone for ISRO, showcasing its advanced capabilities in mission planning, navigation, and lunar exploration. The orbiter's high-resolution cameras and scientific instruments have contributed to a deeper understanding of the Moon's surface, including the detection of water ice in permanently shadowed regions.

2.7 Keynote Address-Insights from ISRO

The most anticipated session of the seminar was the **Keynote Address** by **Mr. M.S. Srinivasan from ISRO**. He provided an in-depth perspective on **ISRO's Chandrayaan missions**, elaborating on the technological advancements that positioned India as a key player in space exploration.





- ❖ **Chandrayaan-3:** India's third lunar exploration mission, successfully launched on July 14, 2023, at 2:35 PM IST from the Satish Dhawan Space Centre (SDSC), Sriharikota, aboard the LVM3 (GSLV Mk III) rocket. Developed by ISRO, the mission aimed to demonstrate a soft landing and rover mobility on the Moon's surface. Unlike its predecessor, Chandrayaan-2, this mission consisted only of a propulsion module, lander (Vikram), and rover (Pragyan), without an orbiter. After a series of orbit-raising maneuvers, Chandrayaan-3 entered the Moon's orbit on August 5, 2023, and performed a successful soft landing near the lunar south pole on August 23, 2023, at 6:04 PM IST, making India the first country to land near the Moon's south pole and the fourth nation overall (after the Soviet Union, the United States, and China) to achieve a soft landing on the Moon. Following the landing, the Pragyan rover was deployed and operated for approximately 14 Earth days, conducting scientific experiments using its payloads, such as the Laser-Induced Breakdown Spectroscopy (LIBS) and Alpha Particle X-ray Spectrometer (APXS), to analyse the lunar soil and confirm the presence of sulphur and other elements. The lander

carried additional payloads, including ChaSTE, RAMBHA-LP, and ILSA, to study the Moon's seismic activity, thermal properties, and plasma environment. The success of Chandrayaan-3 marked a significant milestone in India's space exploration efforts, reinforcing ISRO's capabilities in interplanetary missions and paving the way for future lunar and planetary explorations.

Mr. Srinivasan's talk was both informative and inspiring, leaving the audience with a profound appreciation for India's achievements in space science and a renewed sense of national pride.

2.8 Vote of Thanks

As the event drew to a close, *Mrs. Ruksana Banu* delivered the Vote of Thanks, expressing gratitude to all those who contributed to the success of the seminar.



"Good afternoon, everyone.

As we come to the close of this enlightening Space Day session, it is my honour to extend a heartfelt vote of thanks on behalf of the entire organizing committee.

First and foremost, I would like to express our deepest gratitude to our esteemed Chief Guest, **Mr. Srinivasan Margasahayam**, for sharing his knowledge and experiences with us today. His insightful presentation has not only broadened our understanding of space technology but also inspired us to think beyond the ordinary. His contributions have made this session truly memorable.

A sincere thanks to our beloved Principal, **Dr. Faheem Ahmed Khan**, for his support and leadership. A special thanks to the convener of the program, **Dr. Parvez Ahmed H.M., Professor & HoD**, for his meticulous planning and organization.

A big thanks to our organizing team and everyone who worked behind the scenes for their tireless efforts in planning and executing this event. Your dedication and attention ensured that everything ran smoothly, and for that, we are immensely grateful.

I would also like to thank our faculty members and staff for their unwavering support and guidance. Your encouragement has been invaluable to us.

Finally, to our wonderful audience, thank you for your enthusiastic participation. Your curiosity and engagement have made this event a resounding success.

Once again, thank you very much."



3. Conclusion

The **National Space Day** Special Seminar was a resounding success, offering a platform to celebrate **India's** remarkable achievements in space exploration. The event not only provided students with a deeper understanding of **ISRO's contributions** to lunar exploration but also inspired them to pursue careers in space science and technology.

The insights shared by **Mr. M.S. Srinivasan** highlighted the technological advancements and challenges of space research, fostering a sense of curiosity and ambition among the attendees. The seminar served as a testament to India's growing capabilities in space exploration and its potential to shape the future of global space science.

As the event concluded, it left an indelible mark on the participants, igniting a passion for innovation and a commitment to contributing to India's scientific and technological progress. The seminar was a fitting tribute to India's space journey and a reminder of the limitless possibilities that lie beyond our planet.





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