



2024

Annual Report of UNISEC India

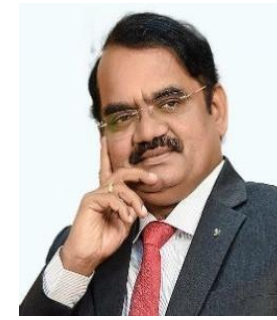
UNISEC India (Key Executives/Core Team)



Mentors: **Padma Shri Prof. R. M. Vasagam**
(vasagam@gmail.com)



Padma Shri **Dr. Y. S. Rajan**
(ysrajan1944@gmail.com)



Padma Shri **Dr. Mylswamy Annadurai**
(mylswamy.annadurai@gmail.com)



President: Dr. L. V. Muralikrishna Reddy
President, ITCA & 75 Satellites Mission
(mlingireddy@yahoo.com)



Secretary General: Dr. K. Gopalakrishnan
Professor Emeritus, Cambridge Institute of Technology
(profgoki@yahoo.com)



Students' Representative: Ms. Inbisat Yousuf Nath
Research Scientist, ITCA/75 Students' Satellites Mission
(inbisatyousufnath@gmail.com)



Mission and Vision

Mission: To advance Space science and technology in India through collaboration, education, and innovation in partnership with academia, entrepreneurs, research organizations, and venture capitalists. This will position ITCA and its space-tech entities to develop CubeSat-based solutions for societal applications across the globe.

Vision: To emerge as a prominent catalyst in advancing New Space-related initiatives, nurturing a dynamic community of professionals, and actively participating in the global endeavours to democratize space for the benefit of mankind.

- Goal 1: **60% Increase in Membership (Planned for 50%)**
- Goal 2: Collaborations and Partnerships: **EIs/Universities in India & Russia; Taiwan Space Agency and Southeast European Space Association**
- Goal 3: Educational Initiatives: **Prepared 15 Course Materials for Space Technology/Satellite Technology Curriculum/Offered at Universities/EIs**
- Goal 4: Events & Publications: **4 Events & 15+ Publications/Course Materials/Books Published in Space**

Goals

- Goal 1: Increase Membership
- Goal 2: Collaborations and Partnerships
- Goal 3: Educational Initiatives
- Goal 4: Events, Conferences & Publications
- Goal 5: Communication and Outreach

Goals and Objectives:



Goal 1: Increase Membership

Objective 1: Achieved a **60% Growth in UNISEC-India Chapter Membership** within the calendar year 2024.

Objective 2: Conduct at least Two Membership Drives and Outreach Programs Targeting Students and Professionals: **Done 3 Programs**

Goal 2: Collaborations and Partnerships (*Exploring Roscosmos, GK, Russia & ISS*)

Objective 1: Establish partnerships with at least 3 National and 2 International Space Organizations. 5 EEs/Universities in India & Russia; Taiwan Space Agency and Southeast European Space Association

Objective 2: Organize One Joint Event with Partner Organizations to Enhance Collaboration. **Four Events have been Done with Partner Organisations!**

Goal 3: Educational Initiatives

Objective 1: Organize three Educational Workshops or Webinars and/or Hands-on Trainings for Students and Professionals. **Conducted Six Workshops or Webinars and/or Hands-on Trainings**

Objective 2: Develop a Mentorship Program Connecting Experienced Members with Newcomers. **Conducted Successfully Under 75 Students' Satellites Consortium Mission Partners**

Goal 4: Events, Conferences and Publications

Objective 1: Support and Actively Participate in at least Three Major Space-related Conferences, in India/Abroad and



Indian Team has been Selected for 9th Mission Idea Contest to the Moon to be held at Stellenbosch University, Cape Town, South Africa

Team from India, Consist of Members from CIT, SIET, JIT, CUK are Mentored by Indian Technology Congress Association-75 Students' Satellites Mission has been shortlisted in TOP 10 for Final Round of International "9th Mission Idea Contest (MIC) to the Moon" of University Space Engineering Consortium (UNISEC) Global, Japan to be held at South Africa during 27-29 Nov 2024 at 10th UNISEC Global Meeting! (<https://www.spacemic.net/>) <https://www.unisec-global.org/meeting10.html>

Mentor/Members from Indian Side



Dr. K. Gopalakrishnan
ITCA/Project Director,
75 Satellites Mission
GC Member, SIET

Nikhil Riyaz
Research Scientist, CCCIR
Alumnus of SIET,
CEO, Hexeia



Bhavana Savantha
Alumnus of SIET,
Carnegie Mellon University

Inbiaat Yousef Nath,
Research Scientist, SIET &
UNISEC India



Ashwin Reddy, Alumnus,
Sri Shakthi Institute of
Engineering & Technology

Sainath Vamshi, Alumnus,
Sri Shakthi Institute of
Engineering & Technology



Mentors from Indian Side



Mentors from Taiwan Side



Dr. Mylewamy Annadurai
Outstanding Scientist,
ISRO-Moon Man of India

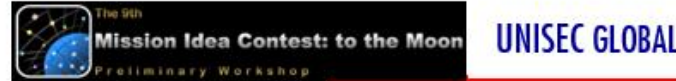
Dr. K. Gopalakrishnan
ITCA/Project Director,
75 Satellites Mission, GC, SIET

Dr. S. Thangavelu
Chairman,
Sri Shakthi IET, Kovai

Prof. Wing-Huan Ip
National Central
University, Taiwan

Prof. Ying Liao
National Taipei University
of Technology, Taiwan

Indo-Taiwan Collaborative Project



Members from Indian Side

Members from Taiwan Side



Nikhil Riyaz
Alumnus of SIET,
CEO, Hexeia

Inbiaat Yousef Nath
Central University of
Kaashmir & UNISEC India

Thiru Venkat R
Cambridge Institute of
Technology, Bangalore

Yi-Hsuan (Rosetta) Li
National Tsing Hua
University, Taiwan

Dr. Jee-Lin Lai
National Central
University, Taiwan

Ashwin Reddy, Alumnus,
Sri Shakthi Institute of
Engineering & Technology

Sainath Vamshi, Alumnus,
Sri Shakthi Institute of
Engineering & Technology

Md Wael Umar
Cambridge Institute of
Technology, Bangalore

Yu-Hsin Henry Cheng
National Central
University, Taiwan

Hao-En (Julian) Chang
National Central
University, Taiwan



Roahani Bankar
Cambridge Institute of
Technology, Bangalore

Mentored by Indian Technology Congress Association-75 Students' Satellites Consortium Mission
National Central University and National Taipei University of Technology, Taiwan



Major Achievements:



Congratulations Team INDIA!

TOP 3 in Taiwan International Mission Idea Contest on CubeSat (TIMICC 2024) Jointly Organized by Taiwan Space Agency (TASA) and the Department of Aerospace Engineering in Tamkang University during TAIWAN International Assembly of Space Science, Technology, and Industry (TASTI 2024) 30 Nov- 04 Dec, 2024 at Kaohsiung Exhibition Center, Taiwan (<https://tasti2024.conf.tw/site/page.aspx?pid=901&sid=1584&lang=en>) and

Team from India, Mentored by Indian Technology Congress Association-75 Satellites Mission has been shortlisted in TOP 10 for Final Round of International "9th Mission Idea Contest (MIC) to the Moon" of University Space Engineering Consortium (UNISEC) Global, Japan to be held at South Africa during 27-29 Nov 2024 at 10th UNISEC Global Meeting! (<https://www.spacemic.net/>) <https://www.unisec-global.org/meeting10.html>

ISSUE 13 | 2 OCTOBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



The Exotic Stellar Population of Westernland 1 (Westerlund 1)

ISSUE 14 | 9 OCTOBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



Whirlpool Galaxy (M51)

ISSUE 15 | 16 OCTOBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



ISSUE 16 | 23 OCTOBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology

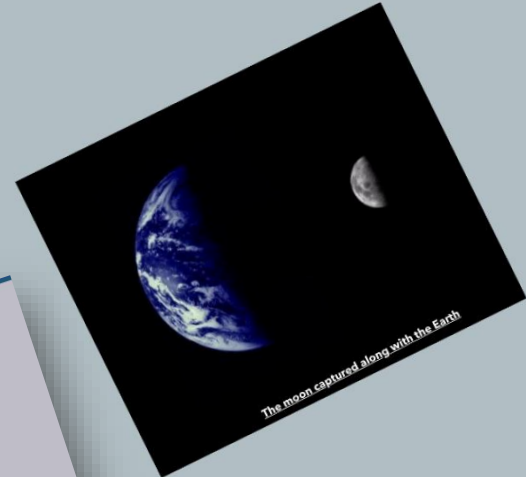


Galaxies IC 2113 and NGC 2257 (NGC 1068)

ISSUE 18 | 6 NOVEMBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



The moon captured along with the Earth

ISSUE 12 | 25 SEPTEMBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



The Great Rift of Orion



View of Mars from the International Space Station

ISSUE 9 | 4 SEPTEMBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



with moon phase in the night sky

ISSUE 8 | 14 AUGUST 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



Whirlpool Galaxy (M51)

ISSUE 10 | 11 SEPTEMBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



Space photo of the star Proxima Centauri

ISSUE 17 | 30 OCTOBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



Forging Ahead: New Avenues in Space Missions

ISSUE 6 | 23 AUGUST 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



SSLV-03/EOS-08

Peering into the Depths of Space

ISSUE 4 | 7 AUGUST 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology

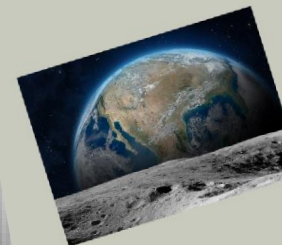


Unraveling the Secrets of the Universe

ISSUE 2 | 04 JULY 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



Conquer the Cosmic Unknown

ISSUE 1 | 17 JULY 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology

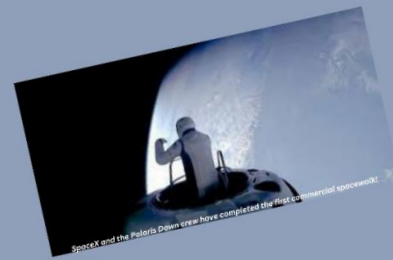


Explore the Final Frontier

ISSUE 11 | 18 SEPTEMBER 2024

SPACE BEACON

Stay up-to-date with the latest in spacetechnology



SpaceX and the Polaris Dawn crew have completed the first commercial spacewalk

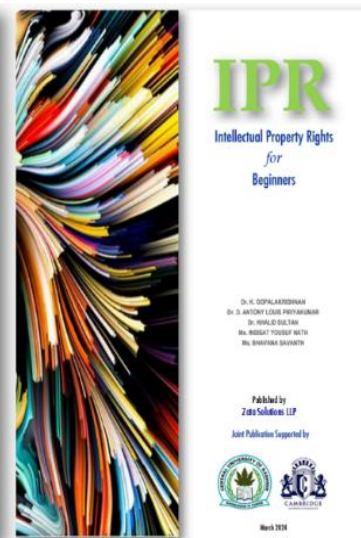
Infinite Horizons: The Future of Space Exploration



INDIAN TECHNOLOGY CONGRESS ASSOCIATION

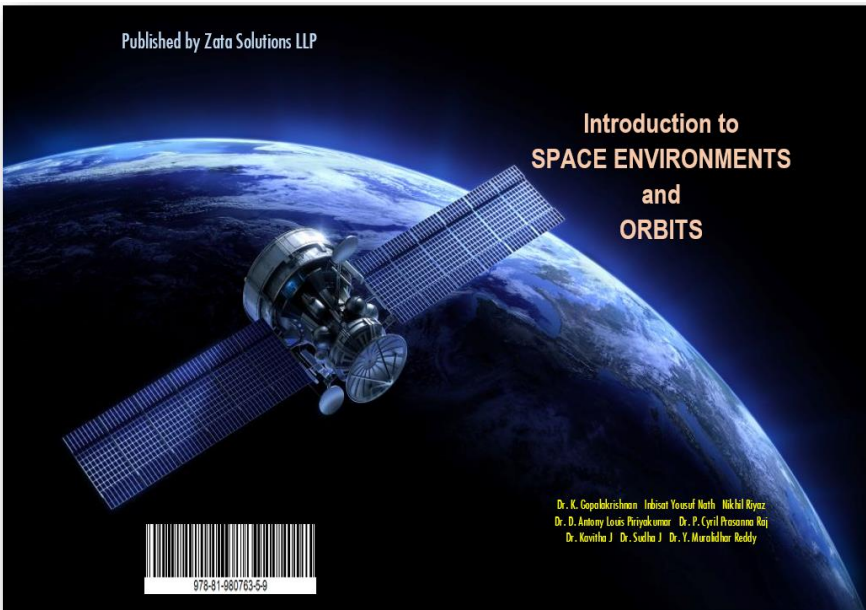
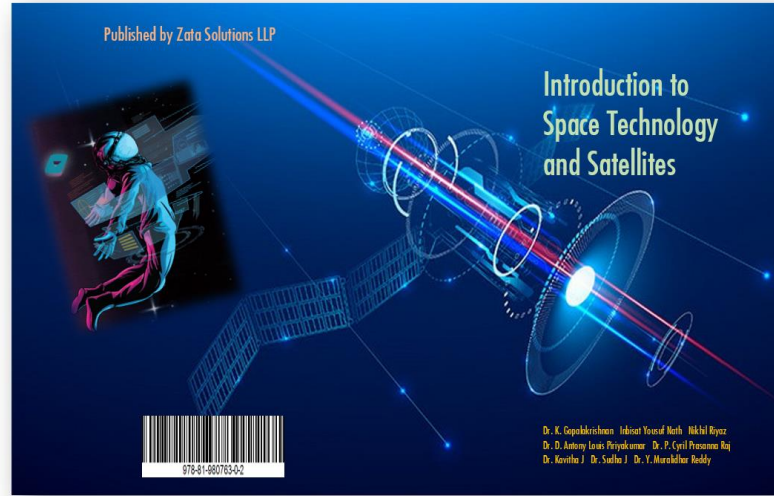
Newsletters...

Publications with ISBN...

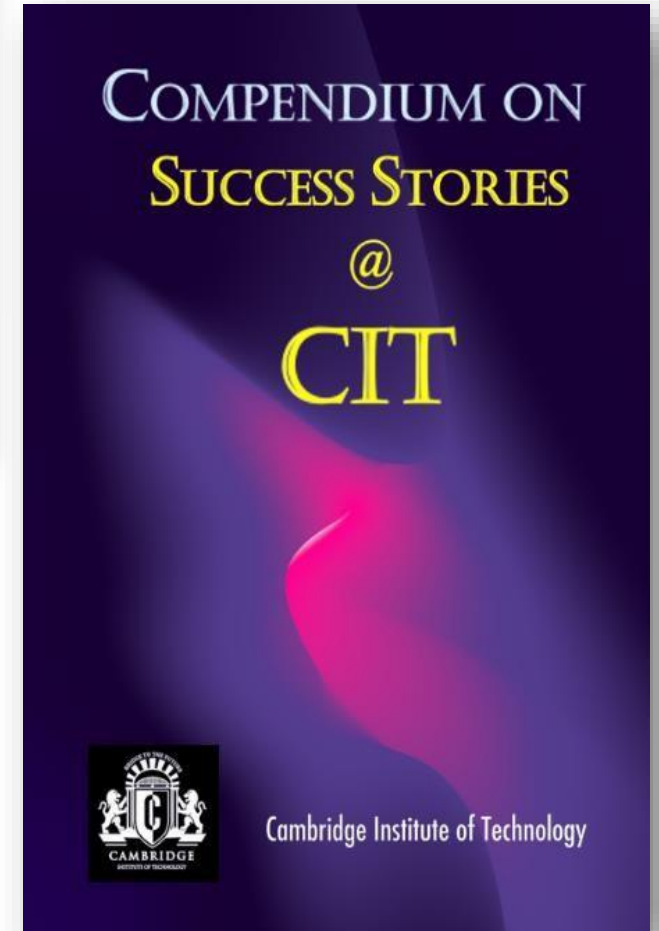


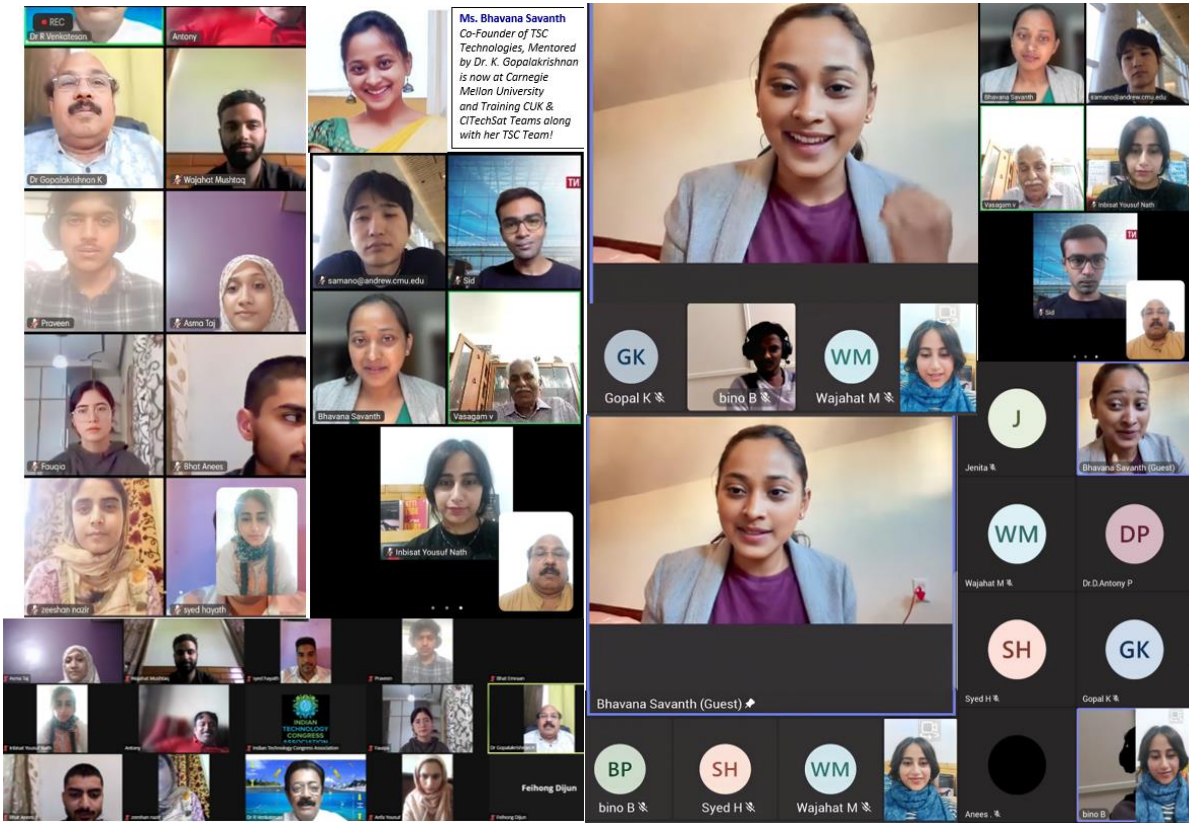
| Patent Application No./ Date of Filing | Patent Filed/ Invention Title | Filing Date (Day/Month/Year) | Patent Journal No./ Publication Date/ Page No. | Inventors |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 202441060785 | System, Design, Development and Method of Planning Cube Satellite Constellation Over Equatorial Region for Earth Observations | 12/08/2024 | The Patent Office Journal No. 04/2024 Dated 23/08/2024 Page No. 74538 | Ms. Inbisat Yousuf Nath Dr. Khalid Sultan Dr. Debanjan Bose Mr. Nikhil Riyaz Dr. L. V. Muralikrishna Reddy Dr. K. Gopalakrishnan |
| 202341081278 Filed on 24/11/2023 | System, Design, Development and Orbital Analysis Using Smart Virtual Tools of 3D Printed CubeSat Structure for Class Room 1U CubeSat and Pocket Cube Satellites | | | The Patent Office Journal No. 51/2023 Dt 22/12/2023 Page No. 91978 |
| 202341081275 Filed on 24/11/2023 | Novel System, Design, Development and Analysis of 1U CubeSat Structure Suitable for LEO and Class Room Satellites | | | The Patent Office Journal No. 51/2023 Dt 22/12/2023 Page No. 91975 |
| 202341081279 Filed on 24/11/2023 | System, Design, Development and Analysis of 3D Printed 1U CubeSat Structure for Class Room Satellites | | | The Patent Office Journal No. 51/2023 Dt 22/12/2023 Page No. 91979 |

Publications with ISBN...



Ongoing Training and Interactions with Eminent Scientists for CUK & CITechSat Team

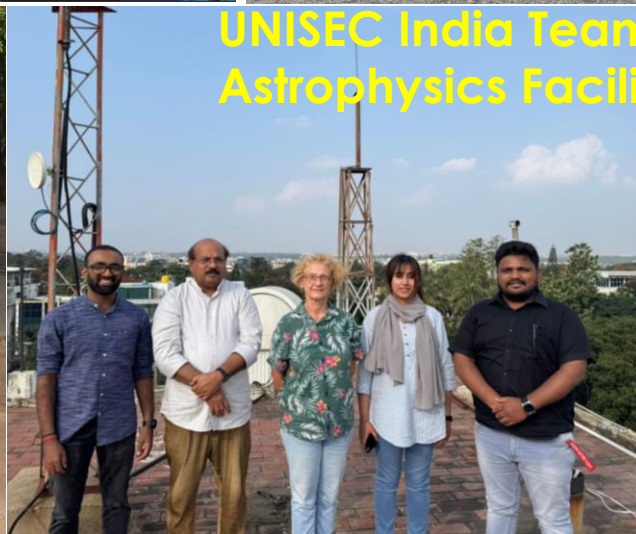




UNISEC India Team at ISRO's/India's Spaceport, SDSC, Sriharikota, INDIA



UNISEC India Team at Indian Institute of Astrophysics Facilities, Bangalore



National Space Day Celebrated at NIT Srinagar



Invited Speakers of Panel Discussion: Prof. Prince, NIT, Prof. P.K. Dan, Ms. Inbiaat Yousof Nath, CUK, Mr. Shahid Abbas Mir, CEO, Greenovator Incubation Foundation at National Space Day Celebrations at NIT Srinagar held on 23 August 2024



Space Tech Events...

Greater Kashmir
YOUR WINDOW TO THE WORLD

NIT Srinagar commemorates first National Space Day

In his key message, Director NIT Srinagar, Prof A Ravinder Nath highlighted the achievements in space exploration and the relentless dedication of scientists and engineers

Srinagar, Aug 23: The National Institute of Technology (NIT) Friday celebrated National Space Day to commemorate India's Moon mission Chandrayaan-3 which scripted history by successfully landing on the lunar surface in August 2023.

A statement of the NIT Srinagar issued here said that the theme for National Space Day 2024 was "Touching Lives while Touching the Moon: India's Space Saga," highlighting the broader impact of space exploration on society and emphasising how advancements in space technology can enhance the quality of life on Earth.

In his key message, Director NIT Srinagar, **Prof A Ravinder Nath** highlighted the achievements in space exploration and the relentless dedication of scientists and engineers.

"On this National Space Day, let us celebrate the remarkable achievements in space exploration and the unwavering commitment of scientists and engineers who push the boundaries of our understanding. Their work inspires future generations to dream big and inspire us," he said.

The inaugural session was presided over by Registrar NIT Srinagar, **Prof Abikur Rehman**. "This day is not only a celebration of India's achievements in space but also a platform to raise awareness about the significance of space exploration," he said.

Prof Prince Ganai served as Nodal Officer of the National Space Day, while **Dr. M Zubair Ansaari** and **Dr. Dineeh Kumar Rajendran** were the coordinators of the event. On the occasion, Dean of Faculty Welfare **Prof G A Harmain** highlighted the historical significance of the first National Space Day. It marks a new era of educational focus on space sciences and the need for space exploration among students, he said.

Dean of Alumni Affairs, **Prof Sneikh Nazir Ahmed** said this day serves as a reminder of the dedication and innovation of India's space scientists, whose efforts have propelled the nation to new heights with the successful landing of the Vikram Lander. **Prof M A Shah** said that India celebrates not just the success of Chandrayaan-3 but also the spirit of scientific inquiry and exploration that drives the nation's space ambitions.

HoD Physics, **Prof Ikram** said by commemorating National Space Day, India highlights its dedication to advancing space science and technology and encouraging innovation. In his welcome address, **Prof Prince Ganai**, Nodal Officer of the event, extended a warm welcome to the guests and introduced the theme "Touching Lives while Touching the Moon: India's Space Saga". He said this theme aptly reflects the essence of our space journey and stated how space exploration has advanced scientific knowledge and enriched daily life through technological innovations.

The first session on the "Journey of Chandrayaan 'Pride of ISRO'" was delivered by **Dr. Dineeh Kumar R**, Assistant Professor, MED, NIT Srinagar. It was followed by a panel discussion on "Indian Academia in Space" and it was moderated by **Prof. Prince Ganai**.

The panelists include **Prof R K Dan**, IIT Kharagpur, **Mr. Shahid Mir**, CEO, GIF and **Ms. Inbiaat Yousof**, Satellite Researcher, CUK. They encouraged young students to develop foundational skills in science and technology to explore new ideas and designs.

Following this, a special workshop on 'Drones in Space and Satellite Science' (75 Satellite Mission) was conducted, featuring sessions led by **Dineeh Kumar Rajendran**, **Tusar**, **Aavik**, **Abid**, and **Zahid**.

The technical session on "The Future of the Indian Space Industry over the Next Decade" was hosted by **Subhaah Kupusamy**, ISRO Space Tutor and CEO of Bhramasra Aerospace. Another workshop titled "Exploring Space through an Eyepiece" was led by **Numaan Baahir Ganai**, CEO of Vision Cosmos, and **Murtaza Abbas Khan**, CTO of Vision Cosmos. The event also included a drawing competition on "The Journey of the Indian Space Program", followed by a quiz competition on Space Science.

Dineeh Kumar Rajendran, the event coordinator, delivered the formal vote of thanks, expressing his gratitude to the resource persons, students, and scholars for their contributions to the program's success. He also thanked the NIT Srinagar administration for their steadfast support in organising such impactful events on campus.



Seminar/Interaction on "Small Satellites-BIG Applications"

14 August 2024 at Greenovator Innovation Foundation, NIT Srinagar at 10:30 hrs

Organised by
University of Kashmir, NIT Srinagar & Central University of Kashmir

Supported by
Indian Technology Congress Association (ITCA),
75 Students' Satellites Consortium Mission
CITech Satellite Project





Cambridge Founder's Day Celebration "Workshop on Space Technologies Including CanSats and CubeSats"

14-16 May 2024 at IC Bose Seminar Hall, CIT

Organised by
Department of R&D and Cambran Consultancy Center & Industry Research (CCCR)
Cambridge Institute of Technology, Bangalore

Supported by
Indian Technology Congress Association (ITCA),
75 Students' Satellites Consortium Mission
CITech Satellite Project



Workshop on Space Technologies Including CanSats and CubeSats

14-16 May 2024 at IC Bose Seminar Hall, CIT

Invited Resource Persons



OPENING REMARKS:
Dr. Antoni Louis Piriyaakumar, Professor and Dean (R&D), Cambridge Institute of Technology (CIT)
Dr. Cyril Prasanna Raj, Professor and Director, Cambran Consultancy Center & Industry Research (CCCR), CIT
Dr. K. Gopalakrishnan, Secretary General, UNISEC India & Indian Technology Congress Association,
Project Director, 75 Students' Satellites Consortium Mission, Professor Emeritus, Cambridge Institute of Technology

INVITED KEYNOTE SPEAKERS:
Padma Shri Prof. M. Vasagan, Eminent Scientist, ISRO, Project Director, India's First Geo-Stationary
Communication Satellite "INSAT", Former Vice-Chancellor, Anna University, Dr. MGR University, India
Topic: Small Satellite Initiatives in India and Opportunities for Academia
Prof. T. K. Sundaramurthy, Mission Director, Indian Communication & Meteorological Satellite Systems, Eminent Scientist, ISRO
Topic: Spacecraft Mission Planning and Operation

Prof. Hirianna S, Former Head, GEOSAT Programme, Eminent Scientist, ISRO Satellite Centre
Topic: Evolution of ISRO and its Centres/Satellites Programs of ISRO

Dr. Antoni Louis Piriyaakumar, Dean R&D, Cambridge Institute of Technology (CIT), Bangalore, India and
Dr. Cyril Prasanna Raj P, Director, Cambran Consultancy Center and Industrial Research, CIT, India
Topic: INSAT into RISAT and AI & ML for Space Applications

RESEARCH SCIENTISTS:
Dr. N. Madhu Sudhan, Research Scientist, CCCR
Topic: Introduction to Microprocessors and Microcontrollers
Prof. Syed Hayath, Assistant Professor, Department of A&MM, CIT
Topic: Introduction to Arduino Programming/CanSats to CubeSat Projects
Dr. Nikhil Riyaz, Research Scientist, CSTTU Dept, Netherlands, Former Student Representative, UNISEC India
Topic: Fundamentals of CanSat-CubeSat-HiSat: Concept to Completion of satellite project
Ms. Inshaf Yousaf Nath, PG Scholar-Physics, Central University of Kashmir, Student Representative, UNISEC India
Topic: Orbital Simulations and Analysis for Nano Satellites Using MATLAB

Space Tech Events...



Interactions with Roscosmos,
Russia @ BSX 2024



Interactions on "Kashmir Students' Satellite" with
Dr. Naseer Iqbal, Registrar, University of Kashmir



UNISEC India Team at
8th Bangalore Space Expo 2024
(BSX 2024)





Space Tech Events...



Kalvi Group of school Students' satellite will be launched in the space in the coming year

Kalvi Group Chairman Mr.S.Senthil Kumar explains, details of his school plan about space Research and satellite launching project in " Small satellites -Big applications"seminar. Special Guest Mr. Dr. K.Bala Krish- nan,Students 75 satellites project Director, hopes Madurai Nagari Kalvi Inter National School students will Show their talent in Space Programmes



Madurai, oct. 12, school campus on Thursday (oct.10) in the space in the coming year and it will connect with other satellite Schools will launch a small Satellite with Students participation purpose. The Small satellite creation cost will be around Rs. 2 Crores and it will have 2 years Rs. time and share in formations Space project in Small Satellites Kalvi Group of Schools Students with school research space and Big Applications seminar, will create a 3 kilo weight small lab regularly. These Details which was organized in kalvi were shared in the function.



தமிழகத்திலேயே பள்ளிகள் அளவில் செயற்கை கோள் உருவாக்கும் முதல் பள்ளியாக மதுரை நகரிக் கல்வி குழும பள்ளிக் ஸ்கூல் திகழ்கிறது

கல்வி குழும தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கைக் கோள்கள் வரும் திட்ட இயக்குனர் டாக்டர் கே. பால கிருஷ்ணன் சிறப்பு விருந்தினராக பங்கேற்று மாணவர்களுக்கு நம்பிக்கை உரை

மதுரை, அக்ட.12 மதுரை நகரில் அமைந்துள்ள கல்வி சார்பேசு கல்வி குழுமம் சிறப்பு செயற்கை கோள்கள் பெரிய பள்ளிக்குள் என்ற தலைப்பில் கருத்தரங்கு மற்றும் தொடர்பு நிழைச்சிய தினம் (அக்ட.10.2024) கல்வி வளாகத்தில் நடந்தது. இந்த நிகழ்ச்சியில் கல்வி குழும தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது. கல்வி குழுமத்தின் தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது. கல்வி குழுமத்தின் தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது.

செய்து திட்டம் கலை வள வடிவங்கள் கல்வி பாதித்திடும் மதிப்பிற்குரிய அளவுக்கு விலைவாசி ஆராய்ச்சி திட்டம் தொடர்பான செயற்கை கோள்கள் வளம்படுத்தலானது. இந்த நிகழ்ச்சியில் 75 மாணவர்கள் செயற்கை கோள்கள் திட்டத்தின் திட்ட

தமிழகத்திலேயே பள்ளிகள் அளவில் செயற்கை கோள் உருவாக்கும் முதல் பள்ளி

கல்வி குழும பள்ளிக் ஸ்கூல் திகழ்வதாக பள்ளி வளாகத்தில் நடைபெற கருத்தரங்கில் ITCA திட்ட இயக்குனர் டாக்டர் கே. பால கிருஷ்ணன் மேற்படி தகவல்



இயக்குனர் கே. பாலகிருஷ்ணன் கூறுகையில் மதுரை செயற்கை கோள் திட்டம் உருவாக்கப்பட்டு அது மதுரை செயற்கை கோள்களின் தொடர்பான செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது. கல்வி குழுமத்தின் தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது.

மாலை மலர்

கல்வி சர்வதேச பள்ளியில் செயற்கை கோள் தொடர்பான கருத்தரங்கம்

கல்வி குழுமத்தின் தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது.

தமிழகத்தின் பள்ளிகள் அளவில் முதல் செயற்கை கோளை உருவாக்கும் கல்வி நிறுவனமாக கல்வி குழும நிறுவனம் திகழ்கிறது

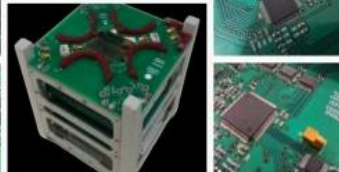
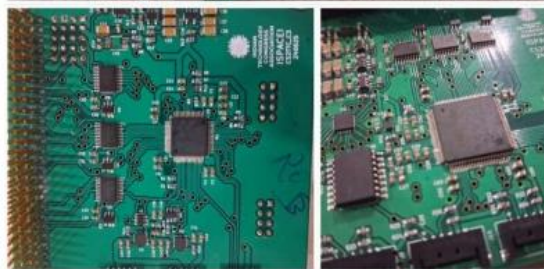
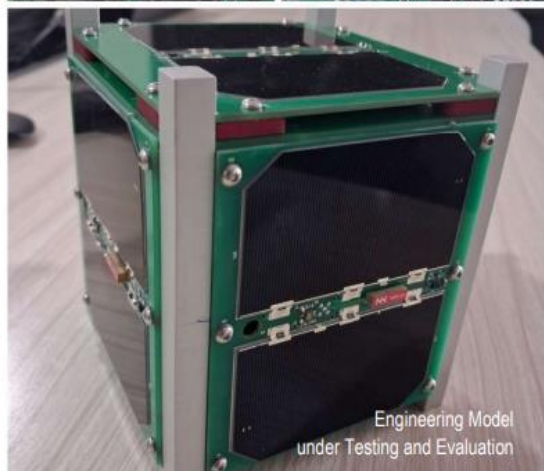
மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது.



கல்வி குழுமத்தின் தலைவர் எஸ்.செந்தில் குமார், மாணவர்கள் பங்களிப்புடன் 75 செயற்கை கோள் திட்டம் ஆகியவற்றின் தொடக்க விழா நடைபெற்றது.



Innovative Indigenous Development of Satellite Subsystems:



Powered by



INDIAN
TECHNOLOGY
CONGRESS
ASSOCIATION



ITCA's Engineering Prowess and Ingenuity

The Road Less Travelled...Opportunities are Unlimited...Unexplored Possibilities...



Implemented the Resolution for UNISEC-India Chapter:

- ITCA forges ahead with unwavering commitment to propel the growth of the UNISEC-India Chapter. We pledge to vigorously champion and execute the action-packed 1-year plan, structuring dynamic collaborations with UNISEC-India members and stakeholders to achieve and exceed the set goals and objectives.
- This resolution epitomizes our relentless drive to spearhead advancements in space science and technology, ignite collaborative efforts, and make impactful contributions to educational initiatives within the vibrant space community.

Supported by



Organised by



14

Proposed Date: 30-31 December 2024

Mega Event Proposed for the Year.....Ongoing.....

- Congress of Conferences.....*Space 2:0....Affordable Classroom Satellites for All Institutions...*
- Multi Tracks of Hybrid Events.....
- Single Platform to Showcase Creativity, Innovation, Startups.....
- Invited Technical Talks on Emerging Technologies.....
- 60 Seconds Movie Competition.....
- Static Displays of Models, Prototypes.....
- Miniature-VFX-SFX Visuals' Competition.....
- AR-VR-360 Degree-Intelligent Imaging Solutions.....
- Hackathons.....Ideathons.....
- CanSat/Rocketry Championship....
- Paper Presentation.....
- Essay Writing, Quiz, Painting, Poster Design, Logo Design Competition.....

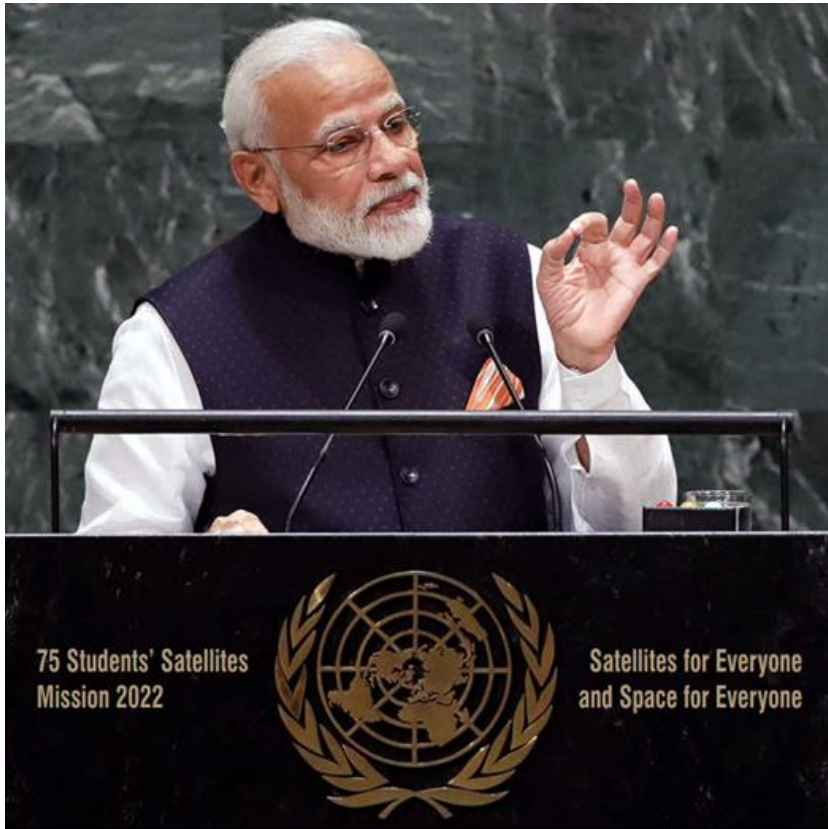
Supported by



On Going Noteworthy Projects.....

75 Students' Satellites Consortium Mission Indian Technology Congress Association, Bengaluru

ITCA has initiated the ambitious "75 Students' Satellites Mission 2022" to commemorate the "75 Years of Indian Independence" (1947-2022) by launching 75 student-built satellites into orbit in conjunction with national and international tech-space organizations. The Mission is a partnership of institutions that will construct and launch their own student-built satellites by 2022. As everyone of us aware that this unique Indian initiative "75 Students' Satellites Mission" has been mentioned by Honourable Prime Minister of India **Shri Narendra Modi Ji** during his address to the global leaders at the 76th United Nations General Assembly on Saturday, 25 September 2021.



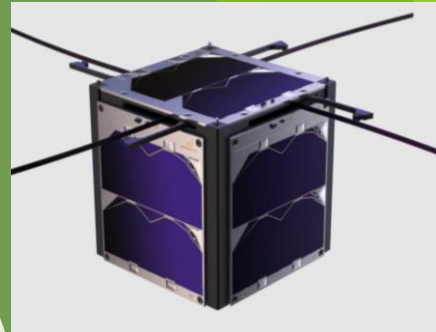
Supported by Space Professional Organisations/Programmes



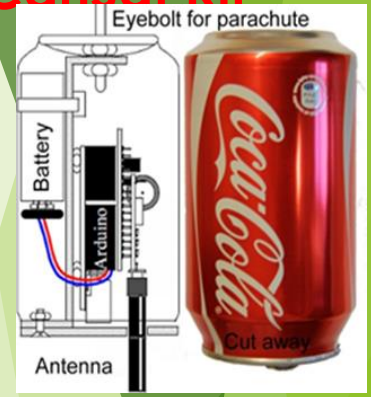
Space 2.0: Space Programmes are free from Government Funded Activities to Private Industries

ITCA-UNISEC India has Developed Frugal Test Beds for 1U to 3U Cube Satellites/GCS On Wheels

10 cm x 10 cm x 10 (x2 or x3) cm Cube



UNISEC India
CanSat Kit



CanSat (350 ml Satellite)



Open for Discussions

► **Now the Floor is Open for Questions.....**

For more details, feel free to contact:

University Space Engineering
Consortium (UNISEC)- India
Secretariat and 75 Students' Satellites
Mission Projects
#3, First Main, BDA Layout, HAL 2nd Stage
Bengaluru -560 008, Karnataka, INDIA

Websites:

<https://unisec-india.in/>

www.itca.org.in

www.75satellites.org



UNISEC India Students' Representative:

Ms. Inbisat Yousuf Nath

Research Scientist, ITCA/75 Students'
Satellites Mission

Email: inbisatyousufnath@gmail.com



UNISEC India Students' Representative:

Mr. Kiran S Hegde

4 Year BE (ISE), Cambridge Institute of Technology (CIT), Bangalore

Email: kiran.21ise@cambridge.edu.in