Directorate of Students' Welfare
Guru Gobind Singh Indraprastha University
Sector-16 C, Dwarka, Delhi-110078 Website: http://ipu.ac.in

F.NO. DSW/GGSIPU/2026-08 **Date: 02.04.2026**

NOTICE

Subject:- Workshop on Advanced Drone Technology, Defence Drones, AI, Rocketry and Aircraft Design.

This is with the reference to letter 5-15(W.I)/B.S.E.R.C./2026/137 dated 23.03.2026 of Space Tutor, Indian Space Research Organisation (ISRO), Bharat Space Education Research Centre, New Delhi on the subject cited above (copy attached).

All Deans/Directors/Principals of USS/Centre/Affiliated Institutes are requested to disseminate the information amongst all the students of the University for participation in the Bharat Def-Space Innovation Corridor 2026 & workshop being conducted to commemorate National Technology Day on 11 May 2026.

02/04/2026

(Prof. Anuradha Chug)
Associate Director, SW

Copy to:-

1. All Deans/Directors of USS/Centre and Principals/Directors of Affiliated Institutions of GGSIPU with the request to please circulate the notice amongst all the students of their respective USS/Centre/Affiliated Institute/College.
2. AR to Vice Chancellor – for information of the Hon'ble Vice Chancellor.
3. AR to Registrar – for information of the Registrar.
4. Project Director, UITS with a request to upload the notice on the website of the University.
5. Guard file.

2/4/26

(Surinder Singh)
Section Officer, SW

भारत अंतरिक्ष शिक्षा अनुसंधान केंद्र

Bharat Space Education Research Centre

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पत्रांक: 5-15(डब्ल्यू.आई.)/बी.एस.ई.आर.सी./2026/137 दिनांक: 23 मार्च 2026

Subject: "Kindly circulate this communication to all students and encourage their active participation in the **Bharat Def-Space Innovation Corridor 2026.** As part of the broader Def-Space Education and Employment for All, also invites to participate in a series of workshops is being organised for new learners in Artificial Intelligence, Air Taxi, Aircraft Design Technology, Defence Drone Technology, Rocketry Design, and Robotics Design. In addition, dedicated workshops will be conducted to commemorate **National Technology Day on 11 May 2026.** " -Reg.

आदरणीय महोदया /महोदय,

"Announcement"

Bharat Def-Space Innovation Corridor 2026

An Online Technical Pool for Defence & Space, Science, Computing and Technical Innovators

The Government of India, under the visionary leadership of Hon'ble PM Shri Narendra Modi, has initiated groundbreaking reforms in the space sector. These initiatives are designed to enhance and promote defence & space education, research, and development across the nation. A key highlight is the celebration of National Space Day on August 23, which underscores India's commitment to fostering innovation and scientific excellence in space exploration. In alignment with the Viksit Bharat Abhiyan@2047.

Bharat Def-Space Innovation Corridor 2026 will feature curated online pavilions bringing together Innovators, Startups, Professionals, and Organisations across key sectors including Defence & Space Tech, Mobility, AI, Deep-tech & Cybersecurity, HealthTech & BioTech, AgriTech, Energy & Climate Tech, Incubators & Accelerators, and Precision Manufacturing, with a focus on building a self-reliant, innovative, and future-ready India for Viksit Bharat by 2047.

A transformative initiative to invite Students, Faculty, Research Scholars, Innovators, Entrepreneurs, Investors, Advisors, and Institutions and Connect with Industry leaders, access funding, gain mentorship, and showcase your innovations on platform.

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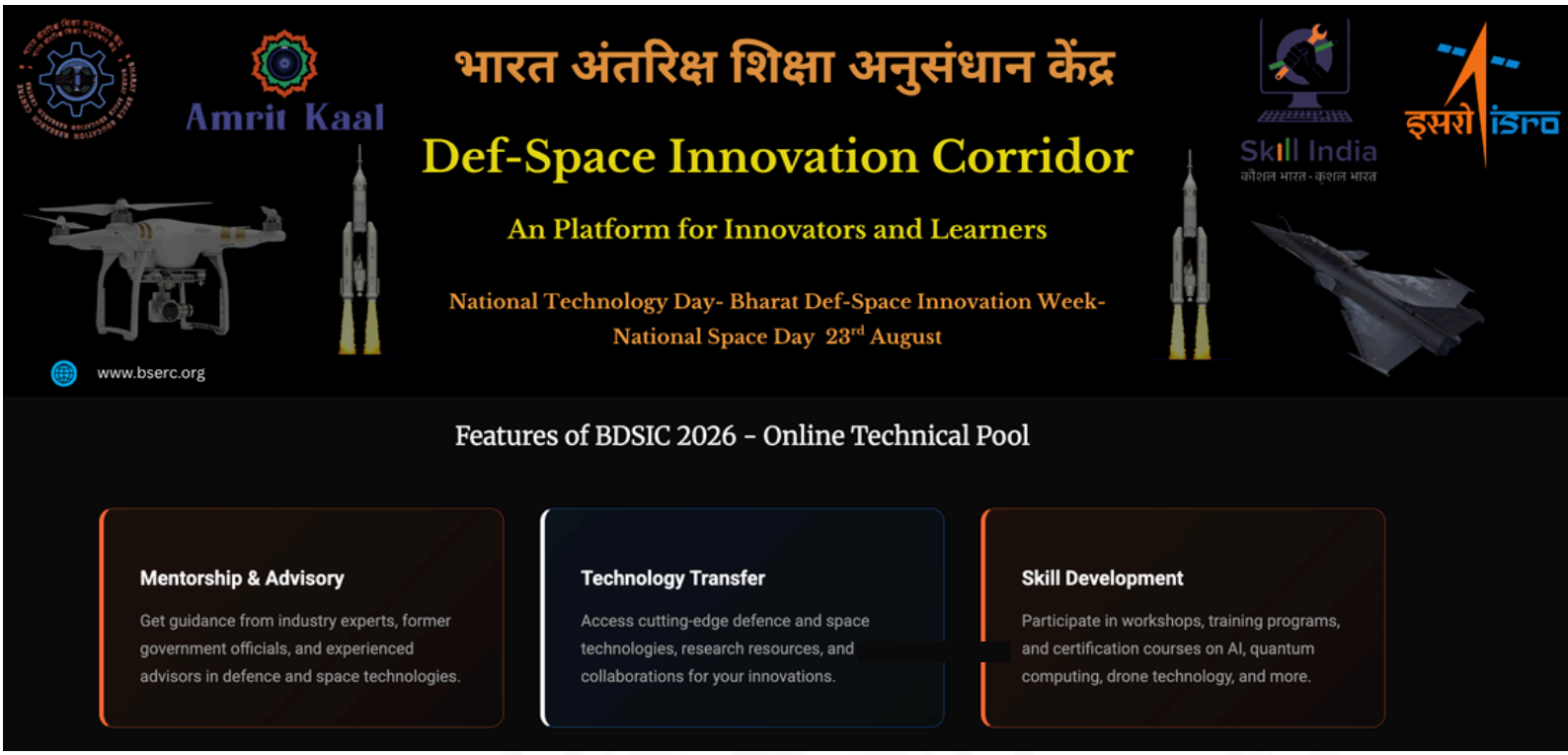

Bharat Def-Space Innovation Corridor 2026

National Technology Day on 11th May

Bharat Def-Space Innovation Week : 18th - 22nd August

National Space Day : 23rd August 2026

Def-Space Virtual Tech Summit: Live-stream (Zoom/YouTube); Webinars by Bharat Space Education Research Centre , Startups on Def-Space Tech : 23rd August 2026 at 11:00 AM.

Registration Link for Def-Space Innovation Corridor & National Technology Day: https://forms.gle/yx1mXdLznQNuirLX9 (For All)

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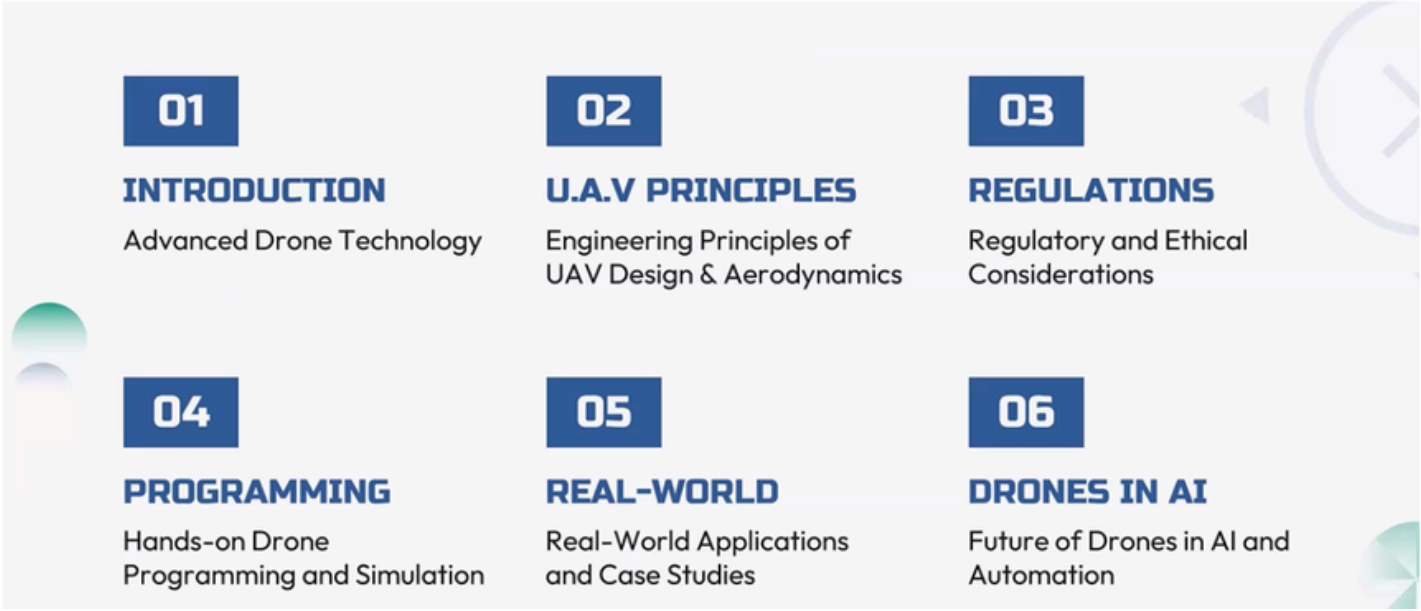
1-Day Advanced Drone (Air Taxi) Workshop

4th April, 2026

Content covered in Workshop



Apply for One Day Advanced Drone Technology (Air Taxi) Workshop:
https://forms.gle/HbuYZR4oi1GuupgQ9

4th April, 2026, Duration : 3 Hours
Timings : 10:00 AM - 1:00 PM

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1-Day Artificial Intelligence Workshop

4th April, 2026

Content covered in Workshop 01

Accelerated 3-Hour Schedule Table

Time	Session	Core Topics	Duration	Hands-On
2:00-2:20 PM	1. What is AI?	Traditional/Generative/Agentic	20 min	Quick model comparison
2:25-2:45 PM	2. AI Query Life	Input→Tokenize→Embed→Attend→Generate	20 min	Token counter demo
2:50-3:05 PM	3. Key Terms	Context Window/Token/Temp/Embeddings	15 min	Parameter slider demo
3:05-3:25 PM	4+5. Providers & Model Selection	OpenAI/Anthropic/Google/Meta + Task matrix	20 min	Task→Tool matching
3:30-3:50 PM	6. Perfect Prompts	Role/Context/Task/Examples/Format/Constraints	20 min	Build 1 perfect prompt
3:55-4:55 PM	7. Best Practices + Projects	DOs/AVOIDs + 3 live exercises	60 min	PDF summary + code fix + image analysis

Apply for Artificial Intelligence Workshop: https://forms.gle/pBAjtvVnxUbc2S9W7

4th April, 2026, Duration : 3 Hours, Timings : 2:30 PM -5:00 PM

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1-Day Aircraft Design Workshop

5th April, 2026

Time	Topic	Objectives
0 – 10 min	Introduction to Aircraft Design & Design Process	1. Understand the purpose and scope of aircraft design. 2. Learn step-by-step design methodology. 3. Identify trade-offs between performance, cost, and safety.
10 – 20 min	Velocity of Flight & Standard Atmosphere	Differentiate true, indicated and equivalent air speed & Mach number
20 – 30 min	Anatomy of the Aircraft	Identify major components (fuselage, wings, tail, landing gear, engines).
30 – 40 min	Nomenclature of Airfoil	Familiarize with standard terminology of the airfoil.
40 – 60 min	Aerodynamics of Airfoils (Velocity of Flow, Flow Pressure Distribution, Lift, Drag, Aerodynamic Centre and Centre of pressure.	1. Relate pressure distribution to lift & drag generation. 2. Define and locate aerodynamic center and center of pressure.
60 – 75 min	Wing Geometry	Define aspect ratio, taper ratio, sweep, dihedral, twist.

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75 – 90 min	External Forces on Aircraft	Understand force balance in steady and accelerated flight and equations of motion.
90 – 110 min	Thrust Required Minimum & Power Required Minimum	Derive conditions for minimum thrust & power requirement.
110 – 125 min	Engine Sizing	Estimate engine thrust/power with aircraft mission needs.
125 – 140 min	Weight Estimation	Break down weights into empty, payload, fuel and structural weights
140 – 155 min	Range & Endurance	Derive the equations for range and endurance (Time of flight). Engage participants in Q&A
155 – 170 min	Flight Equilibrium & Stability Wing alone configuration Wing and tail combination	Understand about static and dynamic stability. Derive equations for longitudinal, lateral, and directional stability for wing alone and wing tail combination
170 – 180 min	Flight Demonstration & Special Topics (Flat plate & Similar Wing-Tail flight) Question and answers	Apply theory to practical demonstration. Preparation of flat plate wing to test glide performance and test glide performance of similar wing –Tail combination) Engage participants in Q&A and wrap-up.

Apply for Aircraft Design Workshop: https://forms.gle/pBAjtvVnxUbc2S9W7

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ROCKETRY DESIGN WORKSHOP

2-day session covering core content: 11th & 12th April, 2026

Session 1: (3 Hours)	Duration	Topics Covered
0:00 – 0:10	10 min	**Introduction & Workshop Overview** — Goals, expectations, icebreaker, and structure overview.
0:10 – 0:30	20 min	**Rocketry Fundamentals and History** — Basics of rockets, historical context, and applications; Newton's Third Law.
0:30 – 1:00	30 min	**Physics of Rocket Flight** — Application of Newton's laws, thrust vs. weight, and conceptual introduction to the rocket equation.
1:00 – 1:30	30 min	**Propulsion Basics** — Types of rocket engines (solid, liquid, hybrid), thrust generation, total impulse, and specific impulse (Isp).
1:30 – 2:00	30 min	**Aerodynamics & Stability** — Forces on a rocket, CG vs. CP, fin and nose cone design, and stability margin.
2:00 – 2:30	30 min	**Rocket Design Parameters** — Mission objectives, mass breakdown, thrust-to-weight ratio, and introduction to multi-stage designs.
2:30 – 3:00	30 min	**Q&A / Recap Discussion**

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Session 2 (3 Hours)	Duration	Topics Covered
0:00 – 0:30	30 min	**Advanced Rocket Physics** — Tsiolkovsky rocket equation, multi-stage rockets, and performance implications.
0:30 – 1:00	30 min	**Propulsion Details** — Model rocket motor classification (A, B, C, etc.), thrust curve analysis, and propellant comparisons.
1:00 – 1:30	30 min	**Aerodynamics Deep Dive** — Drag factors, drag coefficient, flight phases, and recovery systems (e.g., parachutes).
1:30 – 2:00	30 min	**Rocket Assembly & Launch Readiness** — Hands-on overview of rocket structure, fin alignment, engine mounting, and safety checks before simulated launch.
2:00 – 2:30	30 min	**Simulation Software Tutorial** — Introduction to OpenRocket, defining rocket parts, running simulations, analyzing altitude and stability results.
2:30 – 3:00	30 min	**Q&A**

Participants opting for a single technology may register via the provided link. For access to all technologies, apply through lateral entry only

2-Day Rocketry Design Session: https://forms.gle/zXMKbpjncP8vPiyi7

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2-Day Defence Drone Workshop

18th & 19th April

Day - 1

DAY 1: AERODYNAMICS & CORE HARDWARE SYSTEMS

Focus: Engineering Fundamentals and Tactical Design

Time Slot	Module	Key Sub-topics
00:00 - 00:45	The UAV Ecosystem	Defense classifications (HALE/MALE), Fixed-wing vs. VTOL, Global & Domestic UAV trends.
00:45 - 02:00	Propulsion & Avionic Suites	BLDC motor dynamics, ESC protocols, Li-Po/Li-Ion energy density, Flight Controller architectures (SoC).
02:00 - 03:00	Aerodynamics & Control	Bernoulli's principle in UAVs, PID tuning, Vibration isolation, and RF Telemetry links (2.4GHz / 5.8GHz / LoRa).

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Day - 2

DAY 2: TACTICAL INTELLIGENCE & AUTONOMY

Focus: Mission Planning, AI, and Regulatory Compliance

Time Slot	Module	Key Sub-topics
00:00 - 01:00	Payload & ISR Systems	Electro-Optical (EO) & Infra-Red (IR) sensors, Photogrammetry, and LiDAR integration for terrain mapping.

Day - 2

01:00 - 02:00	AI & Edge Computing	Computer Vision for target tracking, Autonomous Waypoint Navigation, and Swarm Intelligence basics.
02:00 - 03:00	Policy & Career Roadmap	DGCA Drone Rules 2021, Digital Sky, National Security Ethics, and Defense R&D career pathways.

Participants opting for a single technology may register via the provided link.

2-DAY DEFENCE DRONE TECHNOLOGY : https://forms.gle/6H5tYw56ihsm1Z3S9

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3-Day Robotics Design

1st, 2nd & 3rd May

MILESTONE DAY WISE:

DAY 1 — Robotics Foundations & Hardware Layer
Duration: 3 Hours
Milestone: Build foundational understanding of robotics systems and hardware.

Time	Duration	Topics Covered
0:00 – 0:15	15 min	Introduction & Workshop Overview
0:15 – 0:45	30 min	What are Robotics? Definition, Laws, Applications
0:45 – 1:30	45 min	Robot Types (Arms, Bipeds, Quadrupeds, Wheeled)
1:30 – 2:00	30 min	Sensors Overview – IMUs, Encoders, Ultrasonic, Cameras
2:00 – 2:45	45 min	Actuators – DC, Servo, Stepper, Advanced Actuation
2:45 – 3:15	30 min	Computing Systems – MCU vs SBC, protocols
3:15 – 3:45	30 min	Hands-On: Sensor Interfacing & Motor Control
3:45 – 4:00	15 min	Q&A / Recap

DAY 2 — Software, Control & Project Development
Milestone: Develop ability to work with algorithms, perception & navigation.

Time	Duration	Topics Covered
0:00 – 0:30	30 min	Navigation: Path & Motion Planning
0:30 – 1:00	30 min	Perception: Object Detection, Tracking, Features
1:00 – 1:30	30 min	Mapping & SLAM Introduction
1:30 – 2:00	30 min	Real-Time Systems & Control Loops
2:00 – 2:45	45 min	ROS Basics – Nodes, Topics, Services
2:45 – 3:45	60 min	**Start Project 1 Build:** Obstacle-Avoiding Robot
3:45 – 4:00	15 min	Q&A

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DAY 3 — ROS Practice, System Integration & Final Projects
Milestone: Complete two robotics projects and demonstrate autonomous behavior.

Time	Duration	Topics Covered
0:00 – 0:30	30 min	Integration Techniques & System Testing
0:30 – 1:30	60 min	**Complete Project 1 – Testing & Optimization**
1:30 – 2:45	75 min	**Project 2 – Line-Follower Build & PID Tuning**
2:45 – 3:30	45 min	Field Testing of Both Projects
3:30 – 4:00	30 min	Closing Feedback, Demonstrations & Certification

Participants opting for a single technology may register via the provided link. For access to all technologies, apply through lateral entry only.

Apply : 3-Day Robotics Workshop : https://forms.gle/89SwNtsKGQk1ahRF8

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3-Day Advanced Drone Technology (उन्नत ड्रोन प्रौद्योगिकी)

Workshop: 3-Day session: 8th , 9th & 10th May, 2026

Day	Session	Lecture Title	Topics Covered	Learning Outcome
1	1	Drone Technology Fundamentals & Aerodynamics Basics	a) UAV classifications (fixed-wing, multirotor, VTOL) b) Fundamental forces: lift, drag, thrust, weight c) Airfoil theory and pressure distribution	• Identify major UAV types and their mission envelopes • Explain how airfoil geometry generates lift and influences performance
	2	Basic Flight Stability & PID Control Introduction	a) Angle of attack, stall behavior, stability axes b) PID control fundamentals: P, I, D terms and tuning basics	• Recognize stall and recovery techniques • Configure and tune a basic PID loop to stabilize hover
2	1	UAV Structures, Propulsion & Power Systems	a) Drone frame materials and stress considerations b) Electric motors, propeller selection, ESCs c) Battery technologies and power budgeting	• Assess structural trade-offs for weight vs. strength • Size propulsion and battery systems to meet flight-time requirements
	2	Sensor Suite & Inertial Navigation	a) IMU components: accelerometer, gyroscope, magnetometer b) GNSS integration and error sources c) Complementary vs. Kalman filtering basics	• Integrate sensor data to produce stable attitude estimates • Calibrate IMU/GNSS to achieve reliable position and heading

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3	1	Autonomous Mission Planning & Advanced Control	a) Path-planning algorithms (A*, RRT) b) LQR controller design for trajectory tracking c) Real-time obstacle avoidance strategies	• Generate and optimize waypoint sequences for dynamic environments • Implement an LQR controller to follow complex flight paths
	2	Real-World Applications, Certification & Case Studies	a) Industry use-cases: AAM, logistics, agriculture, healthcare, disaster relief b) DGCA/EASA certification process and airspace integration standards c) System-level testing and validation protocols	• Map technical requirements to specific industry applications • Outline roadmap for regulatory approval and field deployment

3-day training program on December 8th , 9th & 10th , 2026 (Friday–Sunday), focusing on advanced Drone Technology (Air Taxi).

Registration Link for 3-Day Drone : https://forms.gle/weWogv1VzqJqgQKp7

Participants opting for a single technology may register via the provided link. For access to all technologies, apply through lateral entry.

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AIRCRAFT DESIGN WORKSHOP (वायुयान डिजाइन कार्यशाला)

3-day session covering core content: 15th, 16th & 17th May, 2026

Time	Topic	Objectives
0 – 10 min	Introduction to Aircraft Design & Design Process	1. Understand the purpose and scope of aircraft design. 2. Learn step-by-step design methodology. 3. Identify trade-offs between performance, cost, and safety.
10 – 20 min	Velocity of Flight & Standard Atmosphere	Differentiate true, indicated and equivalent air speed & Mach number
20 – 30 min	Anatomy of the Aircraft	Identify major components (fuselage, wings, tail, landing gear, engines).
30 – 40 min	Nomenclature of Airfoil	Familiarize with standard terminology of the airfoil.
40 – 60 min	Aerodynamics of Airfoils (Velocity of Flow, Flow Pressure Distribution, Lift, Drag, Aerodynamic Centre and Centre of pressure.	1. Relate pressure distribution to lift & drag generation. 2. Define and locate aerodynamic center and center of pressure.
60 – 75 min	Wing Geometry	Define aspect ratio, taper ratio, sweep, dihedral, twist.

75 – 90 min	External Forces on Aircraft	Understand force balance in steady and accelerated flight and equations of motion.
90 – 110 min	Thrust Required Minimum & Power Required Minimum	Derive conditions for minimum thrust & power requirement.
110 – 125 min	Engine Sizing	Estimate engine thrust/power with aircraft mission needs.
125 – 140 min	Weight Estimation	Break down weights into empty, payload, fuel and structural weights
140 – 155 min	Range & Endurance	Derive the equations for range and endurance (Time of flight). Engage participants in Q&A
155 – 170 min	Flight Equilibrium & Stability Wing alone configuration Wing and tail combination	Understand about static and dynamic stability. Derive equations for longitudinal, lateral, and directional stability for wing alone and wing tail combination
170 – 180 min	Flight Demonstration & Special Topics (Flat plate & Similar Wing-Tail flight) Question and answers	Apply theory to practical demonstration. Preparation of flat plate wing to test glide performance and test glide performance of similar wing –Tail combination) Engage participants in Q&A and wrap-up.

भारत अंतरिक्ष शिक्षा अनुसंधान केंद्र

Bharat Space Education Research Centre

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Day2 140– 180 min	1. Range & Endurance. 2. Numerical problems.	Derive the equations for range and endurance (Time of flight). Engage participants in Q&A Interpret how aerodynamic efficiency and fuel consumption influence range and endurance values.
Day3 0 – 90 min	Flight Equilibrium & Stability Wing alone configuration Wing and tail combination	Understand about static and dynamic stability. Derive equations for longitudinal, lateral, and directional stability for wing alone and wing tail combination
Day3 90 – 180 min	Flight Demonstration & Special Topics (Flat plate & Similar Wing-Tail flight)	Apply theory to practical demonstration. Preparation of flat plate wing to test glide performance and test glide performance of similar wing –Tail combination) Engage participants in Q&A and wrap-up.

Participants opting for a single technology may register via the provided link. For access to all technologies, apply through lateral entry

3-Day Aircraft Design Session: https://forms.gle/Mg9UHWZ98RMfmKhR6

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UPCOMING EVENTS

Bharat Def-Space Innovation Corridor 2026

National Technology Day on 11th May

Bharat Def-Space Innovation Week : 18th - 22nd August

National Space Day : 23rd August 2026

Def-Space Virtual Tech Summit: Live-stream (Zoom/YouTube); Webinars by Bharat Space Education Research Centre , Startups on Def-Space Tech : 23rd August 2026 at 11:00 AM.

Registration Link for National Technology Day: https://forms.gle/yx1mXdLznQNuirLX9 (For All)

Apply for 1- Day Advanced Drone Technology (Air Taxi) Workshop: https://forms.gle/HbuYZR4oi1GuupgQ9

Apply for 1-Day Artificial Intelligence Workshop: https://forms.gle/pBAjtvVnxUbc2S9W7

Apply for 1-Day Aircraft Design Workshop: https://forms.gle/pBAjtvVnxUbc2S9W7

2-DAY DEFENCE DRONE TECHNOLOGY : https://forms.gle/6H5tYw56ihsm1Z3S9

Apply : 3-Day Robotics Workshop : https://forms.gle/89SwNtsKGQk1ahRF8

Registration Link for 3-Day Advanced Drone Technology : https://forms.gle/weWogv1VzqJqgQKp7

3-Day Aircraft Design Session: https://forms.gle/Mg9UHWZ98RMfmKhR6

Note: Participants are required to register through the provided link for their respective areas of interest. Tuition fees may apply, while the National Technology Day sessions will be conducted free of cost.

Date of the Workshops:

April 4th :	1-Day Air Taxi & Advanced Drone 10: 00 AM - 1:00 PM
April 4th :	1- Day Artificial Intelligence 2:20 PM - 5:00 PM
April 5th:	1-Day Aircraft Design Workshop
April 11th & 12th:	2-Day Advanced Rocketry Design Workshop
April 18th & 19th:	2-Day Advanced Defence Drone Workshop
May 1st, 2nd & 3rd :	3-Day Robotics Design Workshop
May 8th, 9th & 10th:	3-Day Advanced Drone (Air Taxi) Workshop
May 15th, 16th & 17th:	3-Day Aircraft Design Technology

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पत्रांक: 5-15(डब्ल्यू.आई.)/बी.एस.ई.आर.सी./2026/137 दिनांकः 23 मार्च 2026

To,

All the Institutions,

We are pleased to announce an important update regarding the Bharat Def-Space Innovation Corridor 2026. As part of the broader Def-Space Education and Employment for All initiative, also a series of workshops is being organised for new learners in Artificial Intelligence, Air Taxi, Aircraft Design Technology, Defence Drone Technology, Rocketry Design, and Robotics Design. In addition, dedicated workshops will be conducted to commemorate National Technology Day on 11 May 2026. The primary aim of this Corridor and Workshop is to enhance Space & Technology education and the Defence technological advancement. We kindly request all Institutions to disseminate this information widely among their Faculty/ Research Scholars and students. We are pleased to invite all students and research scholars to participate in the Innovative program. Bharat Space Education Research Centre has implemented various nationwide initiatives to promote space education at grassroots level.

सादर | Regards,

निदेशक / Director
भारत अंतरिक्ष शिक्षा अनुसंधान केंद्र
Bharat Space Education Research Centre

सेवा में,

सभी विश्विद्यालय के कुलपति ।
सभी महाविद्यालय के प्राचार्य ।
विश्विद्यालय / महाविद्यालय के शिक्षक एवं छात्र ।

भवदीय