



Emerging Science, Technology, and Innovation Conclave (ESTIC-2025)



3-5 November, 2025 | Bharat Mandapam, New Delhi



Imagine. Innovate. Inspire. for Viksit Bharat 2047



On behalf of the Lead Organising Ministry
Department of Science and Technology (DST)
Ministry of Science & Technology, Government of
India

Dr. Jyoti Sharma, Head, RDI Cell

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Emerging Science, Technology, and Innovation Conclave ESTIC-2025



3-5 November 2025

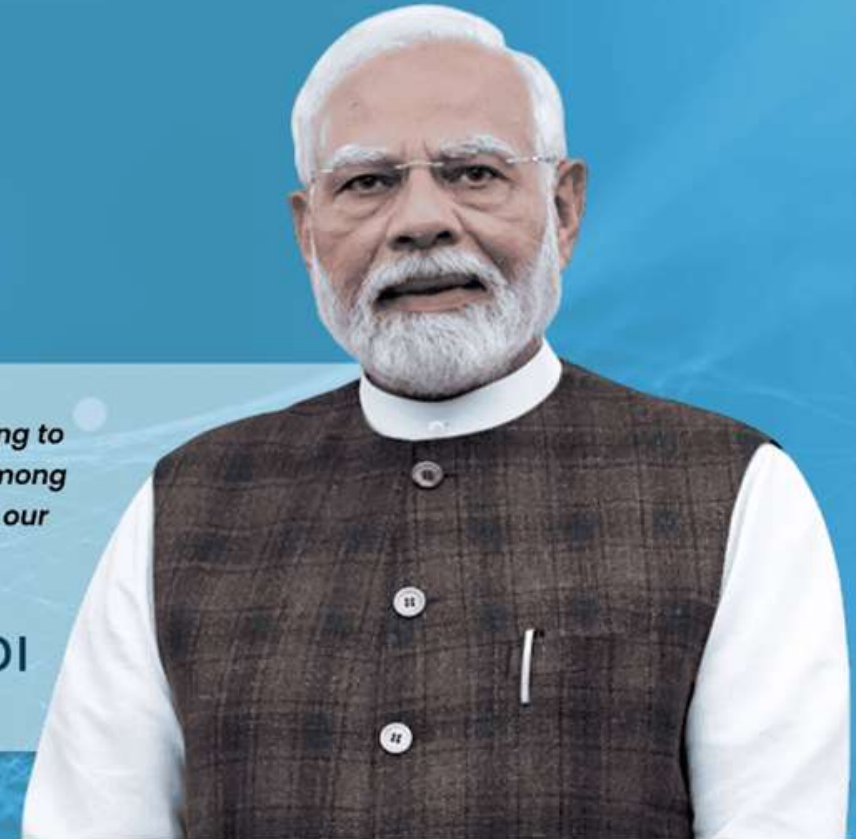


Bharat Mandapam, New Delhi

Our Government is continuously working to encourage research and innovation among the youth. This is important to realise our dream of a Viksit Bharat

SHRI NARENDRA MODI

Hon'ble Prime Minister of India



Ministry / Department Login

ESTIC Brochure: <https://estic.dst.gov.in>



Emerging Science, Technology, and Innovation Conclave (ESTIC-2025)

Imagine. Innovate. Inspire.
for Viksit Bharat 2047

Viksit Bharat 2047 – Pioneering Sustainable Innovation, Driving Technological Advancement, and Fostering Empowerment

SHRI NARENDRA MODI
Hon'ble Prime Minister of India

“Our Government is continuously working to encourage research and innovation among the youth. This is important to realise our dream of a Viksit Bharat.”

3-5 November 2025 | Bharat Mandapam, Pragati Maidan, New Delhi



UNDER THE GUIDANCE OF
Office of the Principal Scientific Advisor to the Government of India

ORGANIZED BY
DEPARTMENT OF SCIENCE & TECHNOLOGY

IN ASSOCIATION WITH

Department of Atomic Energy	MINISTRY OF AYUSH	DEPARTMENT OF BIOTECHNOLOGY
Department of Space	MINISTRY OF SCIENCE AND TECHNOLOGY	Ministry of Earth Sciences
MINISTRY OF EDUCATION	MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY	Ministry of Agriculture and Farmers Welfare
ICMR	DEPARTMENT OF SPACE	DEPARTMENT OF TELECOMMUNICATIONS

ORGANIZING PARTNER
International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI)
(An autonomous Research and Development Centre of Department of Science & Technology, Government of India)

CONTACT DETAILS
Emerging Science, Technology, and Innovation Conclave (ESTIC-2025)
URL: www.estic.dst.gov.in; Email: estic-2025@gov.in; Phone: +91 040 24452451 / +91 9398470914

Participating Ministries/Departments

Under the Guidance of



भारत सरकार के प्रधान वैज्ञानिक सलाहकार का कार्यालय
Office of the Principal Scientific Adviser
to the Government of India

Organized by



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

in association with



परमाणु ऊर्जा विभाग
Department Of Atomic Energy



आयुष मंत्रालय
MINISTRY OF
AYUSH



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
(विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार)
Ministry of Science & Technology, Govt. of India



रक्षा अनुसंधान एवं विकास संगठन
रक्षा मंत्रालय, भारत सरकार
DEFENCE RESEARCH &
DEVELOPMENT ORGANISATION
Ministry of Defence, Government of India



पृथ्वी विज्ञान मंत्रालय
Ministry of Earth Sciences



शिक्षा मंत्रालय
MINISTRY OF
EDUCATION



इलेक्ट्रॉनिक और
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



भारतीय कृषि अनुसंधान परिषद्
Indian Council of Agricultural Research
Ministry of Agriculture and Farmers Welfare



स्वास्थ्य अनुसंधान विभाग
Department of Health Research



अन्तरिक्ष विभाग
DEPARTMENT OF
SPACE



दूरसंचार विभाग
DEPARTMENT OF
TELECOMMUNICATIONS

Objectives of ESTIC 2025 Conclave



Showcase India's Leadership in Science, Technology & Innovation



Foster Multi-sector Collaboration



Promote Knowledge-driven Economy and startups to promote synergistic growth



Encourage International Partnerships



Inspire Future Generations



ESTIC 2025: Overview

- **Dates & Venue:** Bharat Mandapam, November 3–5, 2025
- **Steering Committee:** Chaired by PSA, with Secretaries of all participating ministries/departments

Thematics — Speakers

 Thematic Areas – **11**

★ Thematic Session Key Speakers –
11

 Plenary Speakers – **6**

 Plenary Panelists- **8**

 Panelists – **47**

 Session Speakers – **33**



ESTIC 2025: Thematic Areas

	Thematic Areas	Lead Ministry/Dept
	Advanced Materials & Manufacturing	CSIR
	Artificial Intelligence	MeitY
	Bio-Manufacturing	DBT
	Blue Economy	MoES
	Digital Communications	DoT & MoE
	Electronics & Semiconductor Manufacturing	DRDO
	Energy, Environment & Climate	DAE
	Health and Medical	ICMR & AYUSH
	Quantum Science & Technologies	DST
	Space Technologies	DAE
	Emerging Agriculture Technologies	ICAR



ESTIC 2025: Program Schedule

Inaugural Session by **Hon'ble Prime Minister**

Day 1: November 3, 2025

- Panel Discussion: *Nurturing R&D and Innovation Ecosystem for Viksit Bharat 2047*
 - Chair: PSA (60 mins)
- Plenary Talks (3): Nobel Laureate and Global Eminent Personality

Day 2: November 4, 2025

- Plenary Talks (1): Global Eminent Personalities
- Parallel Technical Sessions (6): 3 in the morning, 3 in the afternoon
- Cultural Program by Ricky Kej, Indian Music Composer and three-time Grammy Award winner

Day 3: November 5, 2025

- Plenary Talk (2): Global Eminent Personalities
- Parallel Technical Sessions (5): 3 in the morning, 2 in the afternoon
- Valedictory Session

Plenary Panelists: Panel Discussion on 'Nurturing R&D and Innovation Ecosystem for Viksit Bharat 2047'



Prof. Ajay Sood
PSA to GoI



Prof. Ashok Jhunjunwala
IIT Madras



Shri Baba Kalyani
Bharat Forge



Prof. Govindan Rangarajan
IISc Bangalore



Lt. Gen. Madhuri Kanitkar
Maharashtra Univ. of Health
Science



Shri J D Patil
Indian National Academy of
Engineering



Dr. Pawan Kumar Goenka
IN-SPACE



Dr. Soumya Swaminathan
Principal Advisor to the
NTEP



Program Schedule: Day 2 – 04 November 2025

Day 2 04 November 2025 (Tuesday)1

09.00-10.00	Plenary Talk 4 (Global Eminent Personality)		
10.00-11.00	Tea Break, Posters and Exhibition		
Three Parallel Technical Sessions			
11.00-13.00	Session I	Session II	Session III
11.00-11.05	Quantum Science & Technology <i>Session Chair: Secretary, MoE</i>	Bio-Manufacturing <i>Session Chair: Secretary, DBT</i>	Energy Environment & Climate <i>Session Chair: Secretary, DAE</i>
11.10-11.30	Keynote address – 20 mins	Keynote address	Keynote address
11.35-12.15	3 Talks <u>10 mins each</u> by CEO of Deep-tech Start-up / Woman Entrepreneur / S&T Leader – 40 Mins	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader
12.20-13.00	Panel Discussion – 40 mins	Panel Discussion	Panel Discussion
13.00-14.30	Lunch		
14.30-15.30	Plenary Talk 5: TBC Global Eminent Personality		
15.30-16.00	Tea Break, Posters, and Exhibition		
16.00-18.00	Session IV	Session V	Session VI
16.00-16.05	Artificial Intelligence <i>Session Chair: Secretary, MeitY</i>	Blue Economy <i>Session Chair: Secretary, MoES</i>	Health and Medical Technologies <i>Session Chair: DG, ICMR; Co Chair: Secretary, M/o Ayush</i>
16.10-16.30	Keynote address– 20 mins	Keynote address	Keynote address
16.35-17.15	3 Talks <u>10 mins each</u> by CEO of Deep-tech Start-up / Woman Entrepreneur / S&T Leader – 40 Mins	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader
17.20-18.00	Panel Discussion – 40 mins	Panel Discussion	Panel Discussion
18:30-19:30	Ricky Kej Cultural Programme	Imagine, Innovate, Inspire, for Viksit Bharat 2047	



Program Schedule: Day 3 – 05 November 2025

Day 305 November 2025 (Wednesday)			
09.00-10.00	Plenary Talk 6 (Global Eminent Personality)		
10.00-11.00	Tea Break, Posters, and Exhibition Session		
Three Parallel Technical Sessions			
11.00-13.00	Session VII	Session VIII	Session IX
11.00-11.05	Advanced Materials & Manufacturing <i>Session Chair: DG, CSIR & Secretary, DSIR</i>	Digital Communications <i>Session Chair: Secretary, DoT</i>	Space Technologies <i>Session Chair: Secretary, DoS</i>
11.10-11.30	Keynote address– 20 mins	Keynote address	Keynote address
11.35-12.15	3 Talks <u>10 mins each</u> by CEO of Deep-tech Start-up / Woman Entrepreneur / S&T Leader – 40 Mins	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader
12.20-13.00	Panel Discussion – 40 Mins	Panel Discussion	Panel Discussion
13.00-14.30	Lunch		
14.30- 15.30	Plenary Talk 7 (Global Eminent Personality)		
Two Parallel Technical Sessions			
15.30-17.30	Session X	Session XI	
15.30-15.35	Emerging Agriculture Technologies <i>Session Chair: DG, ICAR & Secretary, DARE</i>	Electronics and Semiconductor Manufacturing <i>Secretary, DDR&D, Chairman, DRDO</i>	
15.40-16.00	Keynote address– 20 mins	Keynote address	
16.05-16.45	3 Talks <u>10 mins each</u> by CEO of Deep-tech Start-up / Woman Entrepreneur / S&T Leader – 40 Mins	3 Talks by Start-up CEO / Woman Entrepreneur / S&T Leader	
16.50-17.30	Panel Discussion – 40 Mins	Panel Discussion	
17.30-18.00	Tea Break		
18.00-19.30	Valedictory Session (Prize Distribution and Closing Session)		

Plenary Speakers



Group Captain Shubhanshu Shukla
India Air Force and ISRO



Prof. Andre Geim
University of Manchester



Prof. Manjul Bhargava
Princeton University



Dr. Jean-Yvues Le Gall
Former President of French
Space Agency



Prof. Masaru Tomita
Distinguished Professor, Keio
University President & CEO, Tsuruoka
Science Park



Prof. Hidetoshi Katori
University of Tokyo Team
Director, RIKEN Center for
Advanced Photonics

Professor Sir Andre Geim- *Nobel Laureate in Physics (2010)*



- **Nobel Prize in Physics (2010)** for pioneering experiments on **graphene**
- **Regius Professor of Physics, University of Manchester**, leading advanced materials research
- **Copley Medal (2010, Royal Society)** – the world's oldest scientific prize
- **Knighthood (2012)** for contributions to science
- **John J. Carty Award (2013, U.S. National Academy of Sciences)** for advances in nanomaterials

Thematic Area 1: Advanced Materials & Manufacturing

Keynote Speaker



Prof. G.U. Kulkarni

Former President, JNCASR,
Bangalore



**Shri Pawan Kumar
Chandana**

Co-Founder & CEO, Modern
Profound Tech Park



Ms. Rajshree

Managing Director, Innovative
Projects Pvt Ltd



**Prof. T.
Pradeep**

IIT Madras

Moderator



**Prof. Budaraju Srinivasa
Murthy**

Director, IIT Hyderabad

Panellists



**Dr. Ramalingam
Balamuralikrishnan**
Director, DMRL-DRDO,
Hyderabad



Mr. Subodh Pandey
Vice President, Technology
and R&D, Tata Steel Ltd.,
Jamshedpur



**Dr. Mandar Madhukar
Deshmukh**
Professor, TIFR,
Mumbai
Imagine. Innovate. Inspire. for Viksit Bharat 2047



**Dr. Shailaja
Donempudi,**
Head, Business
Development Group
CSIR

Thematic Area 2: Artificial Intelligence

Keynote



Dr. Sridhar Vembu

Founder and Chief Scientist,
Zoho Corporation,
Kancheepuram

Moderator



Shashi Shekhar Vempati

Co-founder, DeepTech for
Bharat Foundation & Former
CEO, Prasar Bharati

Session Speakers



Mr. Shekar Sivasubramanian

(CEO Wadhvani AI)



Dr. Geetha Manjunath

Founder and CEO, Niramai



Dr. Sriram Raghavan

Vice President, IBM
Research for AI, USA

Panellists



**Dr. Harrick Mayank
Vin**

Chief Technology
Officer, Tata
Consultancy Services,
Mumbai



**Prof. Balaraman
Ravindran**

Head, Department
of DSAI, IIT Madras



**Shri Abhishek
Singh**

Additional
Secretary,
MEITY



**Dr. Rimjhim
Agrawal**

Co- Founder &
CTO, BrainSightAI



**Ms. Debjani
Ghosh**

Distinguished
Fellow NITI

Thematic Area 3: Bio-Manufacturing

Keynote



Dr. Kallam Satish Reddy

Chairman, Dr. Reddy's
Laboratories, Hyderabad

Moderator



Dr. Jitendra Kumar

MD, BIRAC, New Delhi

Session Speakers



Dr. Ashvini Shete

Prominent Scientist,
Praj Industries



Prof. Rekha S. Singhal

Professor, Institute of
Chemical Technology, Mumbai



Dr. Vijay Singh

Executive Director, Integrated
Bioprocessing Research Lab, Univ of
Illinois, Urbana

Panellists



**Dr. Vedam
Ramprasad**

CEO, MedGenome Labs
Ltd, Bengaluru



Dr. Sangeeta Srivastava

Executive Director, Godavari
Biorefineries Ltd, Mumbai



Dr. Arun Harish

Chief Strategy
Officer, CPI, UK



Ms. Supriya Kashikar

CEO, GeNext Genomics
Pvt Ltd., Nagpur

Thematic Area 4: Blue Economy

Keynote



Dr. Shailesh Nayak

Director, NIAS, IISC,
Bengaluru

Moderator



Dr. Balakrishnan Nair

Director, INCOIS, Hyderabad

Session Speakers



Dr. Ratheesh Kumar

Sr Scientist, ICAR CMFRI



Dr. Ganesh Kamath,

Director, Organica Biotech Pvt. Ltd



Ms Minusri Madhumita

Co-Founder & Director, Thinkraw
Innovate

Panellists



**Dr. Seshagiri
Raghukumar**

MD, Myko Tech Private
Limited, Dona Paula



**Shri Ambassador
Rajiv Bhatia**

Chairman, FICCI, Delhi



Shri Niroj Kr. Mohanty

MD & CEO, Core CarbonX
Solutions Pvt. Ltd.,
Hyderabad



**Capt. S.I. Abul kalam
Azad**

Nautical Advisor cum
Additional DG, Mumbai

Thematic Area 5: Digital Communications

Keynote



Prof. Kiran Kumar Kuchi
IIT, Hyderabad

Moderator



Dr. Raj Kumar Upadhyay
CEO, C-DOT, New Delhi

Session Speakers



Shri Ramu Srinivasaiah
Co-Founder & Director,
Lekha Wires



Shri Puneet Agarwal
CEO, VVDN Technologies



Shri Kumar Sivarajan
Co-founder Chief Technology Officer,
Tejas Network

Panellists



Prof. Radhakrishna Ganti
Department of Electrical
Engineering, IIT, Madras



Prof. Panganamala Vijay Kumar
Department of ECE, IISc,
Bengaluru



Shri A. Robert Jerard Ravi
Chairman & MD, BSNL, ITC Limited, Bengaluru



Dr. Parag Naik,
Lead Scientist

Thematic Area 6: Electronics & Semiconductor Manufacturing



Dr. Bobby Mitra

CIO and President, Tata Electronics, Hosur

Moderator



Prof. Navakanta Bhat

Dean, IISc, Bengaluru

Session Speakers



Shri G S Madhusudan

CEO & Founder, IIT Madras



Prof. Srinivasan Raghvan

IISc, Bangalore

Panellists



Dr. Suma Varughese

Director General MED,
CoS&CS, DRDO, New Delhi



Dr. Anand Ramamoorthy

Vice President & MD,
Micron India, Gujarat



Prof. Udayan Ganguly

Department of Electrical
Engineering, IIT Bombay



Shri Amitesh Kumar Sinha

CEO, ISM, MEITY, New Delhi

Thematic Area 7: Emerging Agriculture Technologies

Keynote



Dr. Trilochan Mohapatra

Chairperson, Former Secretary, DARE and DG, ICAR, New Delhi

Moderator



Dr. Shyam Narayan Jha
Deputy Director General, ICAR, New Delhi

Session Speakers



Dr. Usha Barwale Zehr
Executive Director & Chairperson, Grow Indigo Pvt. Ltd



Dr. Nachiket Kotwaliwale
Director, ICAR



Shri. Sachin Hegdekudgi
Founder & CEO, Roots Goods

Panellists



Prof. K C Bansal
Adjunct Prof., Guru Jambheshwar Univ of S&T Hisar



Dr. T. R. Kesavan
Director & Group President, Tractors and Farm Equipment Ltd., Chennai



Prof. Santanu Chaudhury
Dept of Electrical Engineering, IIT Delhi



Dr. A Bandyopadhyaya
Former ADG and Director, NRCG, Pune



Mr. Abhilash Sethi
Investment Director,

Thematic Area 8: Energy, Environment & Climate

Keynote



**Dr. Vijay Kumar
Saraswat**

Member, Niti Aayog, New
Delhi

Moderator



Mr. B. C. Pathak
CMD, NPCIL

Session Speakers



Dr David Smith
National Technology
Adviser (NTA) UK



Mr. Anuj Sharma
CEO, Waaree Clean Energy
Solutions Pvt. Ltd., Mumbai



Ms Reha Mazumdar Singhal
Founder & CEO, Ecoware Solutions

Panellists



Mr. Gurdeep Singh
Chairman & MD, NTPC,
Delhi



Mr. Amit Sharma
MD & CEO, Tata
Consulting Engineers
Ltd., Mumbai



Dr. Ashish Lele
Director, CSIR,
Pune



Shri Ajay Talegaonkar
Central Electricity Authority
Seva Bhavan, New Delhi

Thematic Area 9: Health & Medical Technologies

Keynote



Dr. Shiv Kumar Sarin

Director, The Institute of
Liver and Biliary Sciences,
New Delhi

Moderator



**Dr. Jitendra Kumar
Sharma**

MD & Founder CEO, MedTech

Session Speakers



Prof. Gagandeep Kang

Executive Director,
The Bill & Melinda Gate
Foundation



Prof. Ranuja Kesari

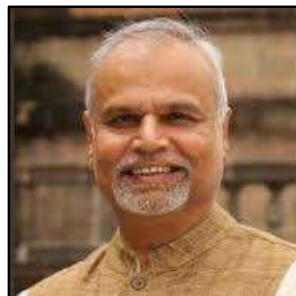
Director, Institute of
Teaching & Research in
Ayurveda



Mr. Balagopal C

Chairman for Kerala State
Industrial Corporation

Panellists



**Prof. Bhushan
Patwardhan**

Ministry of AYUSH,
Pune



**Prof. Mohanasankar
Sivaprakasam**

Department of
Electrical
Engineering, IIT,
Madras



**Dr. Rahul
Purwar**

Professor, IIT,
Mumbai



**Dr. Puthiyedath Ram
Manohar**

Research Director,
Amrita Vishwa
Vidyapeetham
(Ayurveda), Kerala



**Prof. Rizwan
Koita**

Chairperson,
NABH Kerala



Thematic Area 10: Quantum Science & Technology

Keynote



Prof. Anil Prabhakar
IIT, Madras

Session Speakers



Prof Vijayaraghavan
Tata Institute of Fundamental
Research



Dr. Gayatri
CEO, Quan2D Technologies
Pvt Ltd



Prof Aditi Sen De
Harish Chandra Research
Institute

Moderator



Prof. Urbasi Sinha
RRI, Bengaluru

Panellists



Dr. Sunil Guptha
Co-Founder & CEO,
QuNu Labs Pvt.
Ltd., Bengaluru



**Dr. Nagendra
Nagaraja**
CEO & Chair, QPI
AI, Bengaluru



Prof. Kasturi Saha
Department of Electric
Engineering, IIT,
Bombay



**Dr. Somna
Mahajan**
Scientist-G,
SSPL, DRDO, Delhi

Thematic Area 11: Space Technologies

Keynote



Dr. V. Narayanan

Chairman, ISRO, Bengaluru

Moderator



**Shri Shantanu
Bhatawdekar**

Scientific Secretary, ISRO,
Bengaluru

Session Speakers



Prof Sanjay Mittal

Aerospace Engineering,
IIT Kanpur



Ms. Jayanti Bhagatha

CEO, JBI Aerospace



Dr Jhon Paul

Founder & CEO, Mysitech
Site

Panellists



Shri Balaji N

General Manager (ASD),
Aerospace Division, HAL



**Shri A
Rajarajan
Director**

Vikram Sarabhai
Space Centre



Karthik Govindhasamy

CO-FOUNDER & CTO
Antaris Space



Sh Rajeev Jyoti

Director, Tech Dept. of
Space

Ahmedabad



ESTIC 2025: Turning Ideas into Impact

- Drives a National Innovation Roadmap for 2047.
- Fosters collaboration across ministries, academia & industry.
- Showcases contributions of stakeholders to India's innovation journey

ESTIC 2025: Curtain Raiser Event

6 October 2025

Inaugural Curtain Raiser Event, to be inaugurated by the Hon'ble Union Minister of Science & Technology

National Media Centre, New Delhi

October 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Other Curtain Raisers

- also planned by various Ministries/Departments
 - Focused on respective thematic areas
 - To be held at different locations across India

Thank you!

