



Science
Policy
Institute



IndiaLICS 2025 India's Innovation System: Global Perspectives

organised by

Science Policy Institute, University of Kerala, Thiruvananthapuram

12-14 December 2025

Venue: University of Kerala & Gulati Institute of Finance and Taxation

SCHEDULE

Conference Chair

Prof. Lakhwinder Singh

Professor, Thapar School

of Liberal Arts and Sciences (TIET), Patiala

and Visiting Professor, Institute for Human

Development

Secretary, IndiaLICS

Conference Convenor

Prof. Girish Kumar R

Director & Professor, Science Policy Institute,

Department of Political Science, University of Kerala

Convenor, IndiaLICS 2025

DAY I, 12 DECEMBER
Inaugural Session
Venue: EMS Hall, University of Kerala
Karyavattom, Thiruvananthapuram

Session I: Inaugural Session (2:30 PM-3:50 PM)

Welcome Address

Prof. Girish Kumar R

Director, Science Policy Institute and Convenor, IndiaLICS 2025 Conference

Presidential Address

Prof. Josukutty CA

Head, Department of Political Science, University of Kerala

Inaugural Address

HE Juan Carlos Marsán Aguilera

Ambassador of Cuba to India

Keynote Address (in honour of Prof. V.P. Mahadevan Pillai)

Prof. Padmakumar Nair

Vice Chancellor, Thapar Institute of Engineering and Technology

Felicitations

Adv. G. Muraleedharan Pillai

Member Syndicate, University of Kerala

Dr S. Nazeeb

Member Syndicate, University of Kerala

Dr Shijukhan J.S.

Member Syndicate, University of Kerala

Address by the President, Globelics

Dr Erika Kraemer-Mbula

Professor of Economics, University of Johannesburg

Special Address

Prof. K.J. Joseph

Secretary General, Globelics & Director, Gulati Institute of Finance and Taxation

Introduction to Conference Themes

Prof. Ruchi Sharma

Secretary, IndiaLICS and Professor, IIT Indore

Vote of Thanks: Smt. Resmi R

Registrar (I/C), University of Kerala



Session II: Pathways in Innovation-driven Entrepreneurship (4:15 PM - 5:45 PM)

Moderator: Shri D. Manoj, *Principal Advisor (Financial & Economic Analysis - F&EA), Telecom Regulatory Authority of India (TRAI)*

Experts:

Government: Dr S. Unnikrishnan Nair, *Distinguished Vikram Sarabhai Professor and Former Director, Vikram Sarabhai Space Centre, IIST & ISFC*

University/R&D: Dr Samson A., *Dean, Marian Engineering College*

Industry: Shri Anurag Reghu, *Co-founder and Director, HEX20LABS India Pvt Ltd*

DAY 2, 13 DECEMBER 2025

Session 1: Plenary Session 1- Technopreneurship for a Competitive World

(9:30 am- 10:30 am)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Ruchi Sharma

IPR Chair Professor, School of Humanities and Social Sciences, IIT Indore

Speaker:

Prof. Baskaran Angathevar

Department of Development Studies, University of Malaya

India's Innovation System: Opportunities and Policy Challenges in a Global Context

Tea Break

(10:30 am to 10:45 am)

Session 2: Mapping Innovation Across Borders: Comparison and International

Cooperation (10:45 am to 12:00 pm)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Lakhwinder Singh

Secretary, IndiaLICS and Visiting Professor of Economics, Institute for Human Development (IHD), New Delhi and Thapar School of Liberal Arts and Science(TSLAS), TIET, Patiala

Discussant: Prof. Ruchi Sharma

IPR Chair Professor, School of Humanities and Social Sciences, IIT Indore

Presentations

1. Artificial Intelligence Readiness and Employment Dynamics: An Empirical Study of Selected G20 Economies
Ms Fathima Sherin M and Dr Christabell. P.J.
Department of Economics, University of Kerala
2. Implications of US-China Technological Decoupling on Global Innovation System and Middle Power Strategies
Dr Rugmini Devi M and Ms Sinu Kunjumon
Science Policy Institute, University of Kerala and Department of Political Science, University of Kerala
3. Building Bridges in Science, Technology and Innovation Diplomacy: India-Argentina Relations in the BRICS+ STI Framework
Dr Gonzalo Fiore Viani and Ms Ashika S Prasad
*Post-Doctoral Fellow, National Council of Science and Technology of Argentina
Research Scholar, University of Kerala*

Session 3: Plenary Session 2- Policy Mixes for Social Innovation- Aligning Science, Technology and Society (12:00 pm – 1:00 pm)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Jiju P Alex

Member, Kerala State Planning Board and Director of Extension, Kerala Agricultural University

Speakers:

Dr Soorej Jose Puthooparambil

Senior Lecturer in Migration and Global Health

Department of Women's and Children's Health, Uppsala University

Global Health and Migration: Driving Policy Innovation Through Data and Evidence

Dr Sabyasachi Saha

Associate Professor, Research and Information System for Developing Countries

Innovations and the Global South: Implications for Sustainable Development

Lunch Break (1:00 pm – 1:45 pm)

Session 4: Space Innovation System (1:45 pm- 3:30 pm)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Harish C.S.

Professor of Practice and Chairman of the Advanced Space Research Group (ASRG), Indian Institute of Space Science and Technology

Discussant: Prof. Lakhwinder Singh

Secretary, IndiaLICS and Visiting Professor of Economics, Institute for Human Development (IHD), New Delhi and Thapar School of Liberal Arts and Science(TSLAS), TIET, Patiala

Presentations

1. Innovation Systems in the Space Economy: Sectoral Dynamics and Global Value Chains
Dr Piyush Verma
Professor, LM Thapar School of Management, Thapar Institute of Engineering and Technology
2. Making Habitats in the Terrestrial Planets: Analogues for Mars and Space Bricks
Dr V J Rajesh
Professor, Indian Institute of Space Science and Technology
3. DBTL Strategies in Space Bioscience Experiments
Dr K. G. Sreeja Lekshmi
Professor, Indian Institute of Space Science and Technology
4. Mentoring Space-Start-ups: The IIST experience
Dr V. Aravind
Professor, Indian Institute of Space Science and Technology
5. Behaviour and Physiology of Humans in Space: Translating Innovations from Research in Defence
Dr Shabu B Raj
Former Scientist, DRDO

Clinical Psychologist, IIST

6. Harnessing Deep Learning for Next-Generation Geospatial and Satellite Image Insights

Mr Bipin Samuel

Machine Learning Engineer, Eartheye Space Private Limited

**Session 4A: India's Innovation Mosaic: Unveiling Sectoral and Industry Catalysts
(1:45 pm to 3:30 pm)**

Venue: Mini Conference Room(Room No. 218), Gulati Institute of Finance and Taxation,
Thiruvananthapuram

Chair: Dr Sabyasachi Saha

Associate Professor, Research and Information System for Developing Countries

Discussant: Dr Kiran Kumar Kakarlapudi

Assistant Professor, GIFT

Presentations:

1. Innovation Pathways and In-house R&D: A Study of the Pharmaceutical Sector in India

Dr Shreya Anurakti and Dr K Narayanan

Indian Institute of Technology, Bombay

2. Open Innovation System and FDI in India's Automobile Industry

Dr Rajiv Kumar

*Postdoctoral Fellow, Dr Ambedkar International Centre, Ministry of Social Justice and
Empowerment, Government of India*

3. Competing Orbital Orders: India's Multi-Vectoral Strategy in the Global Space
Governance

Mr Dheeraj M Pradeep

Fathima Memorial Training College

Tea Break (3:30 pm -3:45 pm)

**Session 5: Plenary Session 3- Globalisation, Intellectual Property Rights and India's
Innovation System (3:45 pm- 5:00 pm)**

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Bismi Gopalakrishnan

Registrar, Mahatma Gandhi University

Professor and Head, School of Indian Legal Thought, MG University

Speakers:

Prof. Ruchi Sharma

IPR Chair Professor, School of Humanities and Social Sciences, IIT Indore

Patent Regime of India: Undergoing Transformation for Viksit Bharat

Prof. Nalin Bharti

Professor (Economics) and DPIIT IPR Chair Professor, IIT Patna

Globalisation and the Knowledge Economy: India's Journey through Economic Reforms and IPR
Expansion

Dr G. Geethika

Associate Professor in Political Science, Union Christian College (Autonomous)

Patents, Platforms, and AI: How Contemporary IPR Shifts Are Redefining Innovation in India?

Session 6: Online Session (5:30 pm- 7:30 pm)

Innovation Across Borders: Cooperation and Comparison

Chair: Prof. K.J. Joseph

Director, GIFT and Secretary General, Globelics

1. Innovation System in a Changing Global Order
Prof. Rasigan Maharajh
Chief Director, Institute for Economic Research on Innovation, Tshwane University of Technology, South Africa
2. The New Nexus? - A 2025 Analysis of European Union- India Cooperation in Technology, Innovation and Research
Dr Armela Dino
Public Employee, Spanish State Administration, Ministry of Science, Technology and Innovation and Lecturer, University of Brasilia
3. Science, Technology, and Innovation Policies to Develop the Innovative Potential of Small Rural Agroindustry in El Salvador
Dr Andrew Robert Cummings
Central American University José Simeón Cañas, El Salvado

DAY 3, SUNDAY, 14th DECEMBER 2025

Session 7: Special Session on KDISC and Knowledge Economy (09:30 am – 11:00 am)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Keshab Das

Visiting Professor, Institute for Human Development; Adjunct Professor, Institute for Studies in Industrial Development, New Delhi and Director, Centre for Research in Regions & Development, Bhubaneswar

Discussant: Prof. Nalin Bharti

Professor (Economics) and DPIIT IPR Chair Professor, IIT Patna

Special Lecture on ‘Kerala’s Transition to a Knowledge Economy’

Dr P.V. Unnikrishnan

Member Secretary, KDISC

Presentations:

1. Human–Animal Conflict in Kerala: In Search of Innovative Solutions
Dr Sherin Sam Jose, Mr Josin John, Dr V Santhosh
KDISC
2. Hack for Zero Waste: Innovations in Solid Waste Management.
Ms P. S. Santhwana, Mr Vipin V. C., Mr Vimal Ravi
KDISC

**Tea Break
(11:00 am- 11:15 am)**

Session 8: Discussion on Geospatial Technologies (11:15 am - 12:15 pm)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Dr V J Rajesh

Professor, Indian Institute of Space Science and Technology

Discussant: Riju Stephen

Geospatial Analyst

Presentations:

1. GIS-enabled Decision Making for Smart Cities
Dr Ruma Chakrabarty Shukla
ESRI India
2. Enabling Smarter Decisions through Spatial Intelligence in K-SMART
Mr Jayakumar Y
KSMART, Government of Kerala
3. A Cost-effective, Innovative, and Robust Early Warning System for Landslides
Dr Sajin Kumar K.S.
Assistant Professor, Department of Geology, University of Kerala

Session 8A: Driving Progress: Innovation, Transformation and Sustainable Growth in India (11:15 am to 12:30 pm)

Venue: Mini Conference Room (Room No. 218), Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Dr Christabell. P.J

Head & Associate Professor, Department of Economics, University of Kerala

Discussant: Dr Jeffin Thomas Mammen

Assistant Professor, St Gregorios College, University of Kerala

Presentations:

1. Phyto molecules Attenuating Virulence Factors of Bacterial Pathogens and Their Socio-Economic Relevance
Dr Shiburaj S
Director, Kerala University Business Innovation and Incubation Centre (KUBIIC), University of Kerala, Karyavattom, Professor & Head, Department of Botany, University of Kerala
2. Challenges in Regulating Agricultural Technologies: A Case Study of India
Dr Anurag Kanaujia
Delhi School of Analytics, University of Delhi
Dr Solanki Gupta
Assistant Professor, School of Computer Science, Engineering and Technology (SCSET), Bennett University
Dr Sujit Bhattacharya
Chief Scientist and Advisor/Dean Policy Research, CSIR-National Institute of Science Communication and Policy Research
Editor-in-Chief, Journal of Scientometric Research (JSciRes), India
3. The Digital Market Competition with Multisided Markets: An Empirical Study into the Major Online Platforms in India
Dr Beena Saraswathy
Assistant Professor, Institute for Studies in Industrial Development, New Delhi
4. Do Large Cities Foster More Innovation? Firm-Level Evidence from India
Ms Ankita Garg
Freelance Researcher

Session 9: Measuring and Evaluating India's Knowledge Economy (12:15 noon to 1:30 pm)

Venue: Board Room, Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Dr M. Parameshwaran

Associate Professor, Centre for Development Studies

Discussant: Dr Aswathy Rachel Varughese, *Assistant Professor, GIFT*

Presentations:

1. Bringing Innovations to Life- the Sree Chitra Experience
Er S. Balram
Scientist-G (Sr. Grade) and CEO, TIMed
2. Exploratory Study of the Social Value of Patents of Publicly Funded Research Organisations in India
Ms Megha Chamoli and Prof. Ruchi Sharma
Indian Institute of Technology, Indore
3. Digitalisation and Demand for Small Denomination Currency in India
Prof. Ajit Dayanandan
College of Business and Public Policy, University of Alaska
Dr Rajesh Many
Assistant Professor, School of Gandhian Thought and Development Studies, Mahatma Gandhi University
Prof. Sudershan Kuntluru
Indian Institute of Management, Kozhikode
4. Assessing the Efficacy of University-Industry Linkage in Bio-Innovation of Kerala: A Case Study of Selected Universities in Kerala
Dr Jeffin Thomas Mammen
Assistant Professor, St. Gregorios College, University of Kerala

Session 9A: Bridging Gaps: Gender, Inclusion, and Resource-Smart Innovation (12:30 pm to 1:30 pm)

Venue: Mini Conference Room (Room No. 218), Gulati Institute of Finance and Taxation, Thiruvananthapuram

Chair: Prof. Rajeev RR

Head, E-Governance, Capacity Building and Language Technology, International Centre for Free and Open Source Solutions (ICFOSS)

Discussant: Dr Christabell P.J.

Associate Professor, Department of Economics, University of Kerala

Presentations:

1. Fostering Sustainable Entrepreneurship among Rural-Tribal Women: Institutional Innovation in Jharkhand
Prof. Keshab Das
Visiting Professor, Institute for Human Development; Adjunct Professor, Institute for Studies in Industrial Development, New Delhi and Director, Centre for Research in Regions & Development, Bhubaneswar
Dr Sonal Jain

*Assistant Professor, School of Economics & Commerce,
KIIT Deemed to be University, Bhubaneswar*

2. Women-Led Startups and Migration in Kerala: Reimagining Innovation Pathways through Global Perspectives

Dr Merlin Premala J

Institute of Migration and Development, Kerala

3. Digital Technology Adoption, Ownership and Productivity Gap: A Study of Small Firms in India

Ms Jayati Chatterjee

Research Scholar, Indian Institute of Technology, Chennai

**Lunch Break
(1:30 pm to 2:15 pm)**

Session 10: Connected Futures: Shaping the Global Innovation Ecosystem through Emerging Technologies (2:15 pm- 3:15 pm)

Venue: Board Room(Room No.218), Gulati Institute of Finance and Taxation,
Thiruvananthapuram

Chair: Dr Piyush Verma

Professor, LM Thapar School of Management, Thapar Institute of Engineering and Technology

Discussant: Prof. Lakhwinder Singh

Secretary, IndiaLICS and Visiting Professor of Economics, Institute for Human Development (IHD), New Delhi and Thapar School of Liberal Arts and Science(TSLAS), TIET, Patiala

Presentations:

1. Transiting from Industry 4.0 to Industry 5.0 in the Indian Context: An AI Perspective

Dr Hastimal Sagara

GLS University, Ahmedabad and Centre for Research in Regions & Development, Bhubaneswar,

Prof. Keshab Das

Visiting Professor, Institute for Human Development; Adjunct Professor, Institute for Studies in Industrial Development, New Delhi and Director, Centre for Research in Regions & Development, Bhubaneswar

2. The Neural Dilemma: Examining the Role of Artificial Neural Networks in E-Commerce-Induced Overconsumption and Its Environmental Implications

Ms Deepankshi Agnihotry

Project Assistant, Impact and Policy Research Institute

**Session 10A: Clean Tech Frontiers: Driving the Renewable Energy Revolution
(2:15 pm- 3:15 pm)**

Venue: Mini Conference Room (Room No. 218), Gulati Institute of Finance and Taxation,
Thiruvananthapuram

Chair: Dr Anitha V

Professor, Department of Economics, University of Kerala

Discussant: Dr Rugmini Devi M

Science Policy Institute, University of Kerala

Presentations

1. Harnessing Solar Irradiance for Entrepreneurship: A Policy Framework for Inclusive Energy Transitions in India
Dr Aparna Raj C
Indian Institute of Management, Ahmedabad
Prof. Keshab Das
Visiting Professor, Institute for Human Development; Adjunct Professor, Institute for Studies in Industrial Development, New Delhi and Director, Centre for Research in Regions & Development, Bhubaneswar
2. Public Perception Towards the Adoption of Renewable Energy Technology and Green Innovations in India: A Case of Solar Photovoltaic (PV) Technology
Mr Akoijam Amitkumar Singh
Research Scholar, Jawaharlal Nehru University
3. The Political Economy of Climate Change and Water Scarcity: Policy Innovation in the SACU Region
Ms Elalia M Mupwedi
Department of Political Science, University of Kerala

VALEDICTORY SESSION (3:15 PM TO 4:15 PM)

Chair: Prof. K J Joseph, *Director, GIFT and Secretary General, Globelics*

Chief Guest: Dr Santhosh Babu, IAS (Retd.), *Chief Mission Director, Information Kerala Mission and Managing Director, Kerala State Information Technology Infrastructure Ltd and Kerala Fibre Optic Network*

Guest of Honour: Shri. G Levin, *CEO, K-Space*

Special Address: Prof. Lakhwinder Singh, *Secretary, IndiaLICS and Professor, Thapar School of Liberal Arts and Sciences (TIET) and Visiting Professor, Institute for Human Development*

Concluding Remarks: Dr Rugmini Devi M, *Fellow, Science Policy Institute, University of Kerala*

Vote of Thanks: Prof. Girish Kumar R, *Director, Science Policy Institute, University of Kerala and Convenor, IndiaLICS 2025*