



**INDIAN
TECHNOLOGY
CONGRESS**

04 - 05 September 2019
NIMHANS Convention Centre
Bengaluru

PROGRAMME SCHEDULE

INDIAN TECHNOLOGY CONGRESS - 2019
Human Digitalization: Future Intelligence
Thursday, 05 September 2019

		11:00 – 11:30 Hrs	11:30 – 13:00 Hrs	13:00 – 14:00 Hrs	14:00 – 15:30 Hrs	15:30 – 16:00 Hrs	16:00 – 17:30 Hrs
HALL		9:30 – 11:00 Hrs	11:30 – 13:00 Hrs	13:00 – 14:00 Hrs	14:00 – 15:30 Hrs	15:30 – 16:00 Hrs	16:00 – 17:30 Hrs
MAIN HALL	Industry 4.0: Technologies for Future Infrastructure & Industries	TEA	WFEO Session: Emerging Digital Technologies International Seminar on 75 Students Satellites Mission 2022 Business Plan & Opportunities for Indo-Israel Space Tech Investments Initiative	LUNCH	Changing Landscape of Entrepreneurship in India International Seminar on 75 Students Satellites Mission 2022 Way-Forward and Concluding Session New Space Sustainability: Small Satellites for Software-Defined Industry performance	TEA	VALEDICTORY SESSION ITC 2019
HALL A	International Seminar on 75 Students Satellites Mission 2022 UNISEC India Sponsored Session Developing your Small Satellite Project Mission						
HALL B	The Future of Foods: Emerging Agri Technologies Farm to Food Digitalization	The Future of Foods: Emerging Agri Technologies Future Crops - Valued Agro Economy	The Future of Foods: Emerging Agri Technologies Future Crops - Valued Agro Economy		The Future of Foods: Emerging Agri Technologies Agri Business and Supply Chain Technologies		
HALL C	Technical Paper Presentation	Technical Paper Presentation	Technical Paper Presentation		-		
Exhibition							
NIMHANS Convention Centre, Bangalore							

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Wednesday, 04 September 2019

Inaugural Programme

MAIN HALL, NIMHANS Convention Centre, Bengaluru

09:30 – 11:00 Hrs	Assembly	9.30 Hrs
	Invocation	
	Welcome	Dr LV Muralikrishna Reddy Chairman, Indian Technology Congress
	About the Congress	Dr Wooday P Krishna National President Indian Institution of Production Engineers
	Inaugural Address	LIGHTING THE LAMP Dr Ashwath Narayan C N Hon'ble Deputy Chief Minister and Hon'ble Minister for Higher Education, IT&BT, Science and Technology, Government of Karnataka
	Presentation of Honours Technology Excellence Awards & Release of Publications	
	Guests of Honour	Brig Gen (res) Prof Chaim Eshed Co-Founder, Israel Space Agency, Israel
		Dr Ashok Dalwai CEO- National Rainfed Area Authority, GoI, New Delhi
		Dr Sudhir Kamath Director General and Micro Electronic Devices & Computational Systems (MED & CoS), Scientist 'H', DRDO
		Dr P V Venkitakrishnan Director - Capacity Building Programme Office Indian Space Research Organisation (ISRO)
Presidential Address	Prof R M Vasagam Padma Shri Recipient Chairman, National Advisory Committee, ITC 2019	
Vote of Thanks	Dr K Gopalakrishnan Council Member, The Institution of Engineers (India)	

TEA

11:00 – 11:30 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Plenary Session

Wednesday, 04 September 2019

11:30 – 13:00 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chair

Dr Ing B V A Rao

Adj Professor, National Institute of Advanced Studies, IISc
Former Chairman, National Design and Research Forum

Co-Chair

Dr Ramakrishna Kappagantu

Chair, IEEE R10 Nominations &
Advisory (2017-18)
Former R10 (Asia-Pacific) Director, IEEE

Keynote Speakers

Dr P V Venkitakrishnan

Director - Capacity Building Programme Office
Indian Space Research Organisation (ISRO)

Shri S Selvakumar IAS

Secretary
Skill Development Entrepreneurship and Livelihood (SDEL)
Government of Karnataka, Bangalore

Shri Raghu Pilaka

Vice President
New Commerce – B2B, Reliance Corporate Park (RCP)

Representative from
BEML Limited

LUNCH

13:00 – 14:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

**New Space Horizon
Emerging Ecosystem for
Student Built Satellites**

Wednesday, 04 September 2019

INAUGURAL & PLENARY SESSION
3rd International Programme on 75 Students Satellites Mission 2022

Wednesday, 04 September 2019

14:00 – 15:30 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Welcome & About Satellite
Mission 2022

Dr K Gopalakrishnan
Secretary-General, Indian Technology Congress Association

Inaugural Address

Dr Y S Rajan
Padma Shri Recipient
Honorary Distinguished Professor
Indian Space Research Organization

MoU Signing

Guest of Honour

Dr Radhakrishnan D
Director, New Space India Limited, ISRO

Dr Meir Ariel
Director-General
Tel Aviv University Nano-Satellite Center, Israel

Shri DNVN Kishore Yadav
Product Development Manager
VRC Metal Systems, USA

Dr Dillibabu
Scientist, GTRE, DRDO and Director, NDRF

Shri Ashok GV
Partner, Factum Law

Presidential Address

Prof R M Vasagam
Padma Shri Recipient
Former Vice Chancellor, Anna University
Former Director and Eminent Scientist, ISRO

Vote of Thanks

Shri Gautham Balasubramanya
Chief Strategy, 75 Student Satellite Mission 2022, ITCA

TEA

15:30 – 16:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

INAUGURAL SESSION

Wednesday, 04 September 2019

14:00 – 15:30 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Honoured Guests

Dr Ashok Dalwai

CEO- National Rainfed Area Authority, New Delhi

Dr Chindi Vasudevappa

Vice Chancellor- NIFTEM, Sonipet, Harayana

Dr N Krishnamurthy

Chairman- Karnataka State Food Commission, Bangalore

Dr S Rajendra Prasad

Vice Chancellor- University of Agricultural Sciences, Bangalore

Shri C R Janardhana

President- FKCCI, Bangalore

Presided by:

Dr G K Vasanthkumar

Former Special Secretary- Food Processing and PHT, GoK, Bangalore

Programmed by:

Shri Chintamani Rachayanavar

Chief Technical Advisor- ITCA, Bangalore

TEA

15:30 – 16:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Transformative Mobility Solutions for a Resurgent India

Wednesday, 04 September 2019 16:00 – 17:30 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chair and Address	Dr Varuna Reddy Potula Formerly Associate Vice President (R&D) Kirloskar Oil Engines
Co-Chair	Dr Ranga Reddy Enti Chairman & Managing Director Legend Technologies
Speakers	
Dr K C Vora Sr. Dy. Director & Head, The Automotive Research Association of India (ARAI) Academy, Pune	
Shri Santosh Vasanth Kumar Sr. General Manager - Mobility Solutions Mahindra Electric Mobility Ltd	
Shri Boaz Marck CEO Eniat Asik Infrastructure Ltd, Israel	
Dr Veeranna S H Additional Director Dept. of Industries & Commerce and Managing Director, Karnataka Trade Promotion Organisation, Bengaluru	
Shri M K Rajamane Managing Director Rajamane Telectic Pvt Ltd	
Shri Ganesan Narayanasamy OpenPOWER leader in Education and Research IBM ISDL and Dr. Jayakumar Singaram Founding Member Rinanu Semiconductor and CTO, Object Automaton	

DINNER

19:30 – 21:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

New Space Horizon Emerging Ecosystem for Student Built Satellites

Wednesday, 04 September 2019

16:00 – 19:00 Hrs

Technologies and Development Models for Accelerated Student Satellite Mission

HALL A

NIMHANS Convention Centre, Bengaluru

Chair	Dr Y S Rajan Padma Shri Recipient Honorary Distinguished Professor Indian Space Research Organization
Co-Chair	Shri Avinash Shirode Space Ambassador, National Space Society, USA (NSS) and President – NSS India, Nashik
Theme	Speakers
Nano- Satellites as a Tool for Engineering Education.	Ms Sharon Mishaal HSC Pedagogical co-ordinator, Herzliya Science Center, Israel
UK-India Space Cluster Collaborations	Shri Amrut Yalagi Head DIT-Space, British Deputy High Commission, Bengaluru
Insights from early missions led by Indian university small satellite teams	Shri Narayan Prasad COO, SatSearch, Germany
Smallsats from university research to Commercialization	Dr Bert Monna Founder, Hyperion Technologies, The Netherlands
Creating a Rocketry Ecosystem A path to a thriving Indian Space Industry	Shri Divyanshu Poddar Founder, Rocketeers, New Delhi
Smallsats Innovations in Public-Private Partnerships	Shri Mahesh Murthy Founder, Exseed Space, Mumbai
Student Satellite Missions and the Indian Ecosystem	Shri Vishal Lata Balakumar Mission Specialist, Dhruva Space Pvt Ltd, Hyderabad
Challenges in Design, Development, and Deployment of Cubesats	Dr Jayakumar Venkatesan CEO, Valles Marineris International Pvt. Ltd
Payloads demonstrative to Commercialization	Mrs Pramitha Ramaprakash Founder, Transend Satellite Technology LLP

DINNER

19:30 – 21:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

Technologies For Doubling Farmers Income

Wednesday, 04 September 2019

16:00 - 17.30 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Chair	Dr M N Sheelavantar Former VC- UAS, GKVK, Bangalore
Co-Chair	Dr Ujjval Asst. Prof, GPS Institute of Agriculture Management, Bangalore
Theme	Speakers
Extension Strategy for Doubling Farmers Income	Dr K Narayana Gowda President- International Society of Extension Education(ISEE), Former Vice Chancellor, UAS,GKVK, Bangalore
Challenges in Diversified Agriculture with special reference to Fisheries	Shri Kuti Drory AgriTech Consultant
MILLETS for FOOD and NUTRITION Security in the climate change scenario	Dr Prabhakar Bhat Former Project Coordinator, Small Millets, AICRP, Bangalore
Premium Farming Produces & Practices	Shri Offir Marom Shutula Ltd, Israel
Agri Business Potentials for Self Entrepreneurship	Dr Abraham Varghese Director- GPS Institute of Agriculture Management, Bangalore

TEA

17:30 to 17:45 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

SMART WATER TECHNOLOGIES

Wednesday, 04 September 2019

17:45 – 19:00 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Chair	Dr A B Patil Former Registrar, UAS, Bangalore and Former OSD- Agriculture Minister, GoK, Bangalore
Co-Chair	Dr Ravikumar C Dean, College of Agriculture Engineering, GKVK, Bangalore
Theme	Speakers
Challenges and Solutions for Medium and Large Irrigation Projects	Shri Cheluvvaraju R Former Chief Engineer, Water Resource Department, GoK, Bangalore
Novel Techniques to save water under water deficit conditions in horticulture crops	Dr Anand Nanjappanavar Irrigation Specialist, UHS, Bagalkot
Soilless Cultivation- An Imperative in the times of Climate Change	Lt Cdr C V Prakash International Consultant – Hydroponics
Agri Innovations and Agri Start Ups	Dr K M Harinikumar Co Ordinator- UAS, GKVK, Bangalore

DINNER

19:30 – 21:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Industry 4.0: Technologies for Future Infrastructure & Industries

Thursday, 05 September 2019

09:30 – 11:00 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chair and Address

Shri O P Khanna

Former MD, Schlafhorst Engineering Ltd
Former CMD, Loepfe Engineering Ltd and
Former Chairman, Indian Institution of Productions
Engineers

Co-Chair

Shri A K Saxena, FIE

Chairman, SEAC, Jharkhand

Speakers

Shri Naimeesh Chauhan

Chief of Manufacturing Engineering
Rolls Royce India

Shri Ravichandra

Senior Director
Schneider Electric

Shri Arun Venkateshan

Managing Director
Lacuna Space Tech Private Ltd

Dr Ing Daniel Hahn

Robotics and Industrial Automation
VSTP PVT. LTD, UK/Germany

TEA

11:00 – 11:30 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

**New Space Horizon
Emerging Ecosystem for
Student Built Satellites**

Thursday, 05 September 2019

09:30 – 11:00 Hrs

**UNISEC India Sponsored Session:
Developing your Small Satellite Project Mission**

HALL A

NIMHANS Convention Centre, Bengaluru

Chair	Dr. Venugopal KR Vice Chancellor, Bangalore University
Co-Chair	Dr K Gopalakrishnan Secretary General, ITCA
Theme	Speakers
Developing Small Satellite Project Mission	Shri Sankaran M Deputy Director - Communication and Power Area U R Rao Satellite Centre, Bengaluru
Simplifying Smallsat space missions using innovative tools and platforms beeApp and beeKit	Ms Lucille Baudet Customer Engagement, Open Cosmos, UK
Technologies for Networked, Distributed Small Satellites	Prof. Dr. Klaus Schilling Professor and Chair, Robotics and Telematics, University Würzburg, Germany and Shri Lakshminarasimhan Srinivasan Informatik VII: Robotics and Telematics, Zimmer B101 Julius-Maximilians Universität Würzburg, Germany
Online mission management service for teams launching their first satellite	Shri Andrey Maksimov Managing Director, Precious Payloads, USA
Hyper Spectral Cameras for Smallsats	Dr. Margarita Safonova Visiting Scientist Indian Institute of Astrophysics (IIAP), Bangalore

TEA

11:00 – 11:30 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

FARM TO FOOD DIGITALIZATION

Thursday, 05 September 2019

09:30 to 11:00 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Chair	Shri D V Naghabhusana Former Chairman, Agriculture Division Board, The Institution of Engineers (India)
Co-Chair	Dr Mahendra Prashanth Prof and Head, Dept. of Electronics and Communication Engg, SJB Institute of Technology, Bangalore
Theme	Speakers
Agro Industrial Waste to Value Addition.	Dr M S Thakur Former Principal Scientist, CFTRI, Mysore
Drone Computing for Agriculture	Dr S N Omkar Chief Research Scientist, Dept. of Aero Engineering, Indian Institute of Sciences, Bangalore
Nano Encapsulation of Bio Active Compounds for Food Applications	Dr P Heartwin Principal Scientist National Dairy Research Institute, Bangalore
Smart Irrigation Solutions for Profitable Farming	Shri T Mallesh CEO, Cultivyate, Bangalore

TEA

11:00 – 11:30 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

World Federation of Engineering Organizations (WFEO-CIC) Session: Emerging Digital Technologies

Thursday, 05 September 2019

11:30 to 13:00 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chair

Prof R M Vasagam
Padma Shri Recipient
Vice President, Indian Technology Congress Association

Co-Chair

Dr K Mallikharjuna Babu
Director & CEO
Vardhaman College of Engineering, Hyderabad

Speakers

Mrs Vidya Laxman
Engineering Director – Commercial
Tesco Bengaluru

Shri Prithviraj P, PMP
Program Director
Hashedin Technologies Pvt. Ltd, Bengaluru

Shri Anant Vishnu
Senior Intellectual Property Officer
Infosys, Bengaluru

LUNCH

13:00 – 14:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

New Space Horizon Emerging Ecosystem for Student Built Satellites

Thursday, 05 September 2019

11:30 to 13:00 Hrs

Business Plan & Opportunities for Indo-Israel SpaceTech Investments Initiative

HALL A

NIMHANS Convention Centre, Bengaluru

Chair & Address	Brig Gen (res) Prof Chaim Eshed Co-Founder, Israel Space Agency, Israel
Co-Chair & Address	Dr M Krishnaswamy Project Director, NIUSAT Noorul Islam Centre For Higher Education
Themes	Speakers
Indo-Israel New Space Collaborations	Dr Meir Ariel Director General Tel Aviv Nano Satellite Center
Financing and Technology Transfers for 75 Students Satellites Mission 2022	Shri Akiba Penkar Director TMISAT Ltd, Israel
NITESAT Initiatives	Dr A N Parameswaran Director, Industry-Institute Collaboration (IIC) NITTE University
KITSSAT Initiatives	Dr. G. Jims John Wessley Head, Aerospace Engineering, Karunya Institute of Technology and Sciences (KITS)
VSAT Vardhaman Student Satellite initiatives	Dr. Sulakshana Chilukuri Associate Professor Vardhaman College of Engineering

LUNCH

13:00 – 14:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

Future Crops-Valued Agro Economy

Thursday, 05 September 2019

11:30 to 13:00 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Chair	Dr Y K Kotikal Director of Extension, UHS, Bagalkot
Co-Chair	Dr Narayana Bhatt Dean, College of Veterinary Sciences, GKVK, Bangalore
Theme	Speakers
Future of Foods: Opportunities for FARMERS in Food Processing Industries	Dr P K Gupta Former Head-TTBD and Principal Scientist, CFTRI, Mysore
Vision- 2025: Innovative Ideas and Solutions for Agriculture and Allied Sectors	Dr Shivakumar Magada Prof and Head, Department of Aquatic Environment Management, College of Fisheries, Mangalore
Future Crop: Cannabis-A viable Industrial Crop for Indian Farmers for Doubling their Income	Shri Harshavardhan Redi Sirupa Founder and Managing Partner M/s Namrata Hemp Company, Bangalore
Future Farming Technologies	Ms Sangeeta Bojappa Founder- Farmington.In

LUNCH

13:00 – 14:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Panel Discussion on Changing Landscape of Entrepreneurship in India

Thursday, 05 September 2019

14:00 to 15:30 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chair

Prof. Daniel Khan
Institute of Productivity, UK

Co-Chair

Dr S K Prasad
Professor of Management, REVA University
Founder Fellow, ITCA

Speakers

Dr D Viswanathan

Honorary Advisor, Vivekanandha College of Engineering for Women
Former Vice Chancellor, Anna University

Dr Raman Gujral

Regional Head,
Entrepreneurship Development Institute of India

Shri Girish Batra

Industry Leader, Design Thinker
Founder, Glocal Projects

Ms Alina Alam

Founder
Mittee Café

Shri Sridhar Koushik

Founder, AgriMitra
Managing Partner, Mercury John Deere

TEA

15:30 – 16:00 Hrs

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

AgriTech 2019

The Future of Foods: Emerging Agri Technologies

Connecting Technology and Business to Create Healthier Agri-Food Ecosystem

Agri Business and Supply Chain Technologies

Thursday, 05 September 2019

14:00 to 15:30 Hrs

HALL B

NIMHANS Convention Centre, Bengaluru

Chair	Dr D R Patil Associate Director of Research and Extension UHS, Bagalkot
Co-Chair	Shri M S Divakar Additional Director of Agriculture-HRD Department of Agriculture, GoK, Bangalore
Theme	Speakers
Export Oriented Vegetable Crops for enhancing farmers income	Shri Shreedhar Hebbar General Manager- Neo Foods Limited, Tumkur, HO: Bangalore
Agri Business Options-FPO and FPC's- Stake Holders across Value Chain	Shri Arunbha Bhattacharya and Shri C P Chandrashekarappa , VRUTTI, Bangalore
Low Cost Water Saving Technologies for enhancing productivity in Command Areas	Dr Ashok P Senior Scientist- ICAR Krishi Vigyana Kendra, Hanumanamatti, Ranebennur, Haveri District
Use of UAV and latest technologies in mitigating Human-Wild life conflict	Dr Prayag H S Asst. Professor of Veterinary Sciences, COVS, Bangalore, KVAFSU, Bidar

CONCLUDING SESSION

15:30 to 16:00 Hrs

Chairman / Co-Chairman	Dr G K Vasanthkumar Former Spl Secretary- Food Processing and PHT, GoK, Bangalore Dr D L Maheswar , Former VC, UHS Bagalkot Shri Chintamani Rachayanavar , Chief Technical Advisor, AAB- ITCA, Bangalore
Recommendations	AgriTech Bengaluru Declaration by Dr D L Maheswar , Former VC, UHS Bagalkot

Indian Technology Congress 2019

Human Digitalization: Future Intelligence

Valedictory Session

Thursday, 05 September 2019

16:00 to 17:30 Hrs

MAIN HALL

NIMHANS Convention Centre, Bengaluru

Chief Guest & Address

Dr Sandeep Sancheti

Vice Chancellor

SRM Institute of Science and Technology (SRMIST)

Presided by

Prof R M Vasagam

Padma Shri Recipient

Vice President, Indian Technology Congress Association

DIGNITARIES

Addressing the Session

Shri P K Thiagarajan

President

Institution of Valuers

Shri D V Naghabhusana

Former Chairman, Agriculture Division Board,
The Institution of Engineers (India)

Dr Wooday P Krishna

National President

Indian Institution of Production Engineers

Report on 75 Students Satellites Mission 2022

Dr K Gopalakrishnan

Secretary General

Indian Technology Congress Association

Report on AgriTech 2019

Dr D L Maheswar

Former Vice Chancellor

UHS Bagalkot

Report on ITC 2019

Prof Dr M R Pranesh

Former Professor of Ocean Engineering

IIT Chennai

Announcement of Felicitations &
Vote of Thanks

Dr Ranga Reddy Enti

Chairman & Managing Director

Legend Technologies

Distribution of Certificates

17:30 hrs