

Date: 12.08.2024

Minutes of the meeting of Institution's Innovation Council (IIC)

(मीटिंग का विवरण)

Seventh IIT Tirupati IIC committee meeting was held in the Board room, Administrative Building, IIT Tirupati, Yerpedu on 12.08.2024 from 4:00 pm - 5:30 pm.

The following listed Council Members attended the meeting

S. No.	Name of Member	Key Role / Position assigned in IIC
1.	Prof. K.N. Satyanarayana, Director, IIT Tirupati	President
2.	Prof. E. Anil Kumar, Dean-CSRC	Convenor
3.	Dr. K. Thiruppathi, Chief Manager – CSRC, IIT Tirupati	Start-up Activity Coordinator & Innovation Ambassador
4.	Dr. Sridhar Chimalakonda, Associate Professor, IIT Tirupati	Innovation Activity Coordinator
5.	Dr. Shihabudheen M. Maliyekkal, Associate Professor, IIT Tirupati	IPR Activity Coordinator & Innovation Ambassador-5
6.	Dr. Prashanth Vooka, Assistant Professor, IIT Tirupati	Internship Coordinator
7.	Dr. Ajay Kumar, Assistant Professor, IIT Tirupati	General Member & Innovation Ambassador
8.	Prof. P. Muthukumar, IIT Tirupati	General Member & Innovation Ambassador
9.	Dr. Debasish Mondal, Associate Professor, IIT Tirupati	General member
10.	Dr. Subba Reddy Daggumati, Associate Professor, IIT Tirupati	Preincubation Cell Faculty In charge
11.	Mr. Pankaj Kumar Bhagat, Mastek Limited, Mumbai	IP Expert / Patent Expert
12.	Mr. Hemanath Satyanarayana Founder & CEO, Imagine Software Labs Pvt. Ltd.	Start-up Entrepreneur
13.	Mr. Rajendra Mootha, Head-10x New Initiatives, IIT Madras Research Park	Expert from Ecosystem Enablers
14.	Dr. J. Surya Kumar, CEO, SSIIE-TBI, Sri Padmavati Mahila Visvavidyalayam	Nearby Incubation Centre
15.	Mr. Yuvraj	E Cell Student In charge
16.	Mr. Divij Gupta	General Member & E-cell core member

Prof. K.N. Satyanarayana, Director, IIT Tirupati and President - IIC committee, welcomed the IIC committee members for the IIC committee meeting and requested to update the Pre-incubation Cell activities and IIC activities for the Quarter II,III & Quarter – IV.

Pre-incubation Cell – Convenor updated the status of the Pre-incubation Cell funded technical business ideas & progress etc. Subsequently, Pre-incubation selected teams presented their ideas to the committee members as listed below,

S. No.	TITLE	STUDENTS NAME	DEPARTMENT
1.	Self-charging Technologies and Advanced Roadways for Transporting Electric Vehicles	Mr. Vamsi Krishna Panthala	Civil and Environmental Engineering
2.	Capacitive deionization for water purification in residence	Ms. G Vajitha	Civil and Environmental Engineering
3.	Development of portable and compact thermal air sterilizer	Mr. Amarendra Kumar Gupta	Chemical Engineering
4.	Design and Development of Solar Powered Long-Endurance Fixed-Wing Drone Based Wind Measurement System - a Unique drone design	Mr. Md Imran	Mechanical Engineering
5.	Corrosion Resistant Economical Surface Alloying Coatings for Water Valves During Manufacturing	1. Mr. Nisar Ahmed Khan 2. Mr. Dipayan Chakraborty 3. Ms. Akanksha Prajapati	Mechanical Engineering

President & members - IIC committee, IIT Tirupati reviewed the progress of the pre-incubation Cell funded technical business ideas and provided the necessary guidance to improve the Proof of Concept (PoC) developed, etc. President - IIC committee, IIT Tirupati requested members and external experts to share their feedback/input.

Mr. Hemanath Satyanarayana discussed more about the drone system developed by Mr. Imran and shared about the demand for the long endurance drone for police patrol applications. Prof. K.N. Satyanarayana also suggested to modify the drone for the IIT Tirupati campus monitoring application and demonstrate the same for IIT Tirupati campus surveillance.

Mr. Pankaj Kumar Bhagat discussed about the patent applicant's details of the portable and compact thermal air sterilizer system and suggested adding the patent applicant's name and their contribution carefully to ensure the appropriate technology transfer and monetization, etc.

Mr. Rajendra Mootha enquired more about Capacitive Deionization (CDI) system for residence application developed by Ms. Vajitha and suggested to discuss with Prof. Pradeep, IIT Madras, working in same CDI technology.

Dr. K. Thirupathi, Chief Manager-CSRC & IIC - Start-up activity coordinator made a detailed presentation about the IIC 6.0 Quarter-II, III and IV innovation activities and progress for the year 2023-24 as listed below,

S. No.	Event Name	Organizer	Details (Chief Guest/ Industry/Purpose)	Date
IIC Q2 Activity				
1.	Experiences on Faculty Innovation and Entrepreneurship	CSRC-IIT Tirupati	Dr. Manan Suri, Associate professor, Electrical Engineering Dept., Founder of Cyran AI solutions Startup, IIT Delhi.	18-12-2023
2.	Pre-Incubation Call for Technical Business Idea -Phase III	Pre-Incubation Cell, IIT Tirupati	Dr. Subba Reddy Lt. Gen. Dr. Anil Kapoor Prof. V. R. Ganesan Dr. K. Thirupathi	29-12-2023
3.	InvenTiv 2024 R&D fair	IIT Hyderabad	Prof. K. N. Satyanarayana & Team, Director, IIT Tirupati	05-01-2024 and 06-01-2024
4.	Talk on Design your life through Design Thinking	IIT Tirupati	Lt. Gen. Dr. Anil Kapoor, AVSM, VSM, Ph.D (Retired)	24-01-2024
5.	Workshop on Design Thinking Course	IIT Tirupati	Mr. Ramakrishnan V, Design Thinker, School of Design Thinking, Chennai. Lt. Gen. Dr. Anil Kapoor, AVSM, VSM	15-11-2023
6.	E - Cell and Pre-Incubation Students team visited IIT Madras Centre for Innovation,	CSRC-IIT Tirupati	E cell and Pre-Incubation students' team	24-01-2024

	Nirman and attended 4 th annual GDC symposium			
8.	Industry Academia Interaction	Chemical Engineering Department, IIT Tirupati	Industry experts from different domains such as L&T, COMSOL, APIT, Uranium Corporation, Amara Raja Group, MathWorks, Biocon, Applied Materials, Linde and Unilever	29-01-2024
9.	Participated in the ACEI - Hackathon 5.0 at Aravind Eye Hospital, Pondicherry	Aravind Eye Hospital, Pondicherry	Manas Poddar, Sanjay Singh Bhandari, Sunkugari Tejeswara Reddy, Teja B, Nandhavardhan, Vidhyabhushan Mallela, B.Tech, Department of CSE, IIT Tirupati.	05-01-2024 to 07-01-2024
10.	Won the Finals of Smart India Hackathon 2023 (Software).	Smart India Hackathon 2023, MIC	Sachin Kumar Sahu Palivela Ganesh Priyatham, Preethi Varsha Marivina, Siddhartha G, Swami Ramchandra Kedari, Sirish Sekhar, IIT Tirupati students Team	19-12-2023 and 20-12-2023
11.	Regional finals of the Boeing University Innovation Leadership Development (#BUILD) Program	Wings India 2024	MoCA's Joint Secretary, Shri Asangba Chuba Ao, early-stage startup enthusiasts and university visionary	17-01-2024 to 19-01-2024
12.	Workshop on Standards and labelling training program in collaboration with Andhra Pradesh State Energy Conservation Mission (APSECM) and Siri Exergy and Carbon Advisory Services Pvt. Ltd. (Siri Exergy)	CCE, IIT Tirupati	Mr. K. Madhu, Andhra Pradesh State Energy Conservation Mission (APSECM) Prof. K. N. Satyanarayana, Director, IIT Tirupati.	30-01-2023

13.	A Seminar on NavIC - the Game Changer	IIT Tirupati Navavishkar I-Hub Foundation with Bharat Electronics Limited & IITB COMET Foundation	Dr. Manish Saxena, Satnav-PO, ISRO-HQ. Prof. Ashish Agrawal, Chief Scientist, Head, Time and Frequency Metrology, National Physics. Shri Neeraj Gurjar, Director, Geodetic and Research Branch, Survey of India, Dehradun. Shri Wg Cdr. Rakesh Kumar Madhra (Retd), Chief Operations Officer, Aqila Technologies & Integration Solutions Pvt Ltd.	22-01-2024 and 23-01-2024
14.	Chemistry beyond classroom connecting to the expert's lecture on "Fun and Games with Polymers"	Department of Chemistry, IIT Tirupati	Prof. S. Rama Krishnan, Department of Inorganic and Physical Chemistry, IISC, Bangalore	27-01-2024
15.	IvyConnect Engagement: What VC's look in to early stage startups?	E-Cell, IIT Tirupati	Aashish Gupta, Vice President, Ivy Cap Ventures, IITK and IITM Alumnus	28-02-2024
16.	Orientation Session on "Got a Startup Idea?"	E-Cell, IIT Tirupati	Mr. Vaibhav, E-Cell Student Coordinator	18-01-2024
17.	Science Hack 4.0 "An On-line Project Competition"	The NSS, IIT Tirupati	Dr. Debasis Mondal, Associate Professor, Department of Chemistry, IIT Tirupati.	01-02-2024 and 15-03-2024
18.	HackBells 2.0	Hosted by Sree Budha College of Engineering, Kerala.	Won the event by Mr. Arpit Gupta (III Year), Computer Science and Engineering Department, IIT Tirupati	16-02-2024

19.	National Science Day (NSD) 2024 Celebration: Special Talk on Celebrating Science with Quantum Miracles	International Office, IIT Tirupati	Former Prof. Roopa Manjari Ghosh, South Carolina, Vice Chancellor Head, Faculty Development Center, Shiv Nadar University, Delhi-NCR, Former Professor of Physics and Dean of School of Physical Sciences, JNU, New Delhi.	28-02-2024 and 29-02-2024
20.	International Workshop on Stochastic Models in Data Science	Indian Society for Probability and Statistics (ISPS) in association with -IIT Tirupati	Prof. A. M. Mathai, McGill University, Canada Prof. Asha Gopalakrishnan, CUSAT Prof. K. Muralidharan M. S. University, Baroda	20-02-2024
21.	Talk on “Precision Timing Metrology for Ground and Space application”	IIT Tirupati	Dr. Thejesh Bandi, Associate Professor at the Department of Physics & Astronomy and Principal Investigator of the Precision Navigation, Timing, and Frequency (PNTF) Lab at the University of Alabama, USA, and he is an IEEE senior member	03-01-2024
22.	Expert talk on Dipole-driven Self-assembly and Dynamics in Solutions of Charged Macromolecules	Chemistry Department in association with Office of International Affairs, IIT Tirupati	Prof. M. Muthukumar, Wilmer. D. Barrett professor University of Massachusetts Amherst	18-01-2024
23.	PanIIT Alumni India Global Tech Summit PI-WOT 2023	Pan IIT Alumni India, B Pan IIT Alumni India, Bangalore. Bangalore.	Prof. K. N. Satyanarayana, Director, IIT Tirupati.	08-12-2023 and 09-12-2023
24.	Innovation strategy planning Tirupati Region	IISER Tirupati	Dr. G. Satheesh Reddy, Former Chairman, DRDO.	22-12-2023

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IIC Q3 Calendar Activity				
1.	3 Laying of Foundation Stone of Semiconductor facilities (India's Techade: Chips for Viksit Bharat)	Address of PM to the Youth	Honorable Prime Minister Shri Narendra Modi	13-03-2024
2.	An Indo-Canadian Symposium on "Water Management: Sustainability & Impact of Climate Change"	Chemical Engineering, IIT Tirupati	1.Huy Thanh Vo, Faculty of Urban Engineering, Mientrung University of Civil Engineering, Tuy Hoa 620000, Vietnam. 2.Fuel Ethanol production from "Universal Tube Manifold Reactor (TMR)": A Combined 1G and 2G Ethanol Bio Reactor - Making Way for an Emerging Corn mills D M Giri, ASN Innovation Centre, ASN Fuels Private Limited, Tirupati, India. 3.Technologies for Management of Water Rashmi Ranjan Mohapatra, Hindalco Industries Limited, Sambalpur, India	06-03-2024 and 07-04-2024
3.	Pre-Incubation Call for Technical Business Idea - Phase IV Phase -IV in progress	Pre-Incubation Cell, IIT Tirupati	Dr. Subba Reddy Dr. Prof. V. R. Ganesan Lt. Gen. Dr Anil Kapoor Dr. K. Thiruppathi	04-04-2024
4.	High end Workshop (Karyashala) on "Characterization of	Dr. Prasanna Kumar Behera and Dr. A.V. Rahul, Department of Civil and	Prof. Manu Santhanam, Professor, IIT Madras	18-03-2024 to 24-03-2024

	Cementitious Materials and Laboratory Testing”	Environmental Engineering, IIT Tirupati	Dr. Ramesh Nayaka, Assistant Professor, IIT Dharwad	
5.	E Cell IIT Tirupati Team participated E-Summit '24 IITM	E-Cell IIT Madras	Mr. Abhinandan Sekhri, the co-founder of Newslaundry Mr. Ajit Balakrishnan, the visionary founder of Rediff.com Mr. Karanpreet Bindra (CMO, Yubi) and Mr. Nikil Rungta (Ex-CMO, Google)	08-03-2024 to 10-03-2024
6.	A successful knowledge session on Intellectual Property Rights (IPR): Strategies for Innovation and Protection	In association with C-DAC, IIT Tirupati Navavishkar I-Hub Foundation, IIT Tirupati	Prof. K. N. Satyanarayana, Director, IIT Tirupati. Mr. R Saha, Senior Adviser of Confederation of Indian Industry Dr. Ajai Kumar, Senior Director & HoD Applied AI and GIST Group, C-DAC Pune Mr. Suraj George Varghese, Partner, LexOrbis - IPR Law Firms	21-03-2024
7.	Experiments in free space quantum key distribution	Department of Physics, IIT Tirupati	Prof. R.P. Singh, Physical Research Laboratory, Ahmedabad	03-04-2024
8.	Workshop on Entrepreneurship & E-Summit at IIT Madras	E-Cell, IIT Tirupati	IIT Madras E Cell Student head	03-03-2024

9.	Workshop on DSIR PRISM Schemes - Promotion of Innovation and Entrepreneurship	Department of Mechanical Engineering, IIT Tirupati along with Sri Padmavati Mahila Visvavidyalayam is organizing a Department of Industrial and Scientific Research program	Dr. Sarika Madan, Scientist-E, DSIR, Ministry of Science and Technology, New Delhi. Prof. P. Josthna, Head-Department of Bio-Technology, Co-ordinator-TOCIC, SPVMM-Tirupati.	05-03-2024
10.	Expert Talk on “Directed Energy Weapons”	Department of Electrical Engineering, IIT Tirupati	Dr. Uma Maheshwara Reddy, Scientist H, Ex. Director MTRDC, DRDO-Bangalore.	27-03-2024
11.	Advanced Structural, Thermo structural Ceramics and its Composites for Future Energy Applications	Department of Mechanical Engineering, IIT Tirupati	Dr. T. S. Sri Ramachandra Murthy, Scientist G at BARC, Mumbai	27-03-2024
12.	Course on Digital Manufacturing and Introduction to AI & Machine learning	Department of Mechanical Engineering, IIT Tirupati In collaboration with Industries	Mr. J. Bala Subramaniyan, Head Analytics and ET, Ashok Leyland. Mr. Yogesh Kumar, Chief Operation officer and Director, DiFACTO Robotics and Automation Mr. P. Senthil Kumar, Executive Director, ACI Automation.	01-04-2024 and 22-04-2024
13.	Engineering Strategic Systems for Atmanirbrata	IIT Tirupati	Mr. R. Muralidharan, CTO at TATA Advanced Systems Ltd. Mumbai., India.	17-04-2024

14.	Talk on Wastewater: A Threat to the Environment Vs Resource Recovery	IIT Tirupati	Dr. Narasamma Nippatlapalli, Assistant Professor, Department of Civil and Environmental Engineering, IIT Tirupati.	10-04-2024
15.	Analog hardware Design Workshop and Contest	Dr. Prashanth Vooka Department of Electrical Engineering, IIT Tirupati.	Lakshmi Badrinarayanan , Texas Instruments Analog System Lab Kit Pro	20-04-2024
16.	The Art and Science of Supply Chain Management- “Impact on Business”	Department of HSS & E-Cell, IIT Tirupati	Mr. T.A.B. Bharathi, Senior Vice President (SCM), Wheels India Ltd, TVS Group.	24-04-2024
17.	Seminar on Under water Navigation	IITT Navavishkar I-Hub Foundation	Dr. Yogesh Karpate, Founder & Director, Guardinger Technologies Lt Gen (Dr) Anil Kapoor AVSM VSM (Retd)	06-05-2024
18.	A two days Exposure Visit Program“ Outcome based Enhanced Learning and 21st Century Learning Skills	CBSE and IIT-Tirupati CCE Department	Dr. Nirmala Krishnamurthy, IISER Tirupati Dr. Bhanu Sree Reddy, IISER Tirupati	06-05-2024 & 07-05-2024
19.	Workshop on GIS for schools @ SASTRA University	IITT Navavishkar I-Hub Foundation	Dr. Roshan Srivastav, Project Director, IITT NIHF, IIT Tirupati.	13-04-2024
20.	One Day International Workshop on Hyperspectral Remote Sensing	IITT Navavishkar I-Hub Foundation	Dr. Ahmad Al-Mallahi, Industry Research Chair & Associate Professor, Department of Engineering, Faculty Agriculture, Dalhousie University, Canada. Dr. Rabi. N. Sahoo, Principal Scientist &	16-05-2024

			Program Leader, ICAR-Indian Agricultural Research Institute-New Delhi.	
21.	WATER and GIS Deep Tech Summit	IIT Ropar and IIT Tirupati Navavishkar I-Hub Foundation, in partnership with HDFC Bank	Dr. Akhilesh Gupta (DST) Dr. Anita Gupta (DST) Dr. Ekta Kapoor (NMICPS) Dr. Pushendra Pal Singh (AWaDH) Dr. Roshan Srivastav, IIT Tirupati	01-05-2024
22.	Geospatial Technologies & its applications- Innovation and Incubation opportunities	IITT Navavishkar I-Hub Foundation	Dr. YVN Krishna Murthy, Governing Body Member of IITTNiF Hub	27-05-2024
23.	A one-week short term course on Vacuum Technology and Process Applications”	Department of Physics, IIT Tirupati	Prof. V. Vasudeva Rao, IIT Tirupati	20-05-2024 & 25-05-2024
24.	Geo Spatial Technologies and its Applications – Innovation & Incubation Opportunities	IITT Navavishkar I-Hub Foundation	Dr. YVN Krishna Murthy, Governing Body Member of IITTNiF Hub	27-05-2024
25.	Women's Day Celebration talk by ISRO Scientist	IIT Tirupati	Dr. Sangeetha K, Scientist, ISRO Dr. Penna Krishna Prasanthi, Non official Independent Director, BIRAC, DBT.	08-03-2024 & 09-03-2024

S. No.	Event Name	Organizer	Details (Chief Guest/Industry/Purpose)	Date
IIC Q4 Calendar Activity				
1.	Unlocking Battery Innovation: Stakeholder Meeting on Rapid Prototyping Centre	IIT Tirupati in collaboration with IESA and DST	Dr. Anita Gupta, Head – CEST, DST. Dr. Rahul Walawalkar – President, IESA Dr. Vijayanand Samudrala, New Energy, Amara Raja Energy & Mobility Ltd	18-06-2024 and 19-06-2024
2.	21 days residential program on Artificial Intelligence and Machine Learning for Foundry Industries	Dr. Ajay Kumar, Mechanical Engineering Department, IIT Tirupati.	Nikhil Gupta, and Prof. Mrityunjay Doddamani, USA-India International Research Team Sri Vallabha Deevi, Principal Data Scientist, Tiger Analytics.	20-06-2024 to 30-07-2024
3.	One-Day National Workshop on 3D Modelling and Photogrammetry	IIT Navavishkar I-Hub Foundation in collaboration with Kambill Systems	Industry expert from Kambill Systems	08-06-2024
4.	Unlocking Geography: GIS for School Teachers	IIT Tirupati Navavishkar I-Hub Foundation (IITNiF) at Army Public School, K Kamaraj Road, Bangalore	Dr. Roshan Srivastav, Project Director, IIT NIHF, IIT Tirupati.	04-06-2024
5.	FOSSEE Geospatial Mapathon 2024	IIT Navavishkar I-Hub Foundation in collaboration with IIT Bombay	Prof. Kannan Moudgalya FOSSEE & Professor Emeritus, IIT Bombay	13-08-2024
6.	National Seminar on “Navigating the Depths: Innovations in Underwater Navigation”	IIT Navavishkar I-Hub Foundation in collaboration with Indian Navy	Vice Admiral AY Sardesai, VSM, Inspector General, Nuclear Safety. Shri Srikant Shastri, Chairman, GDPGC	14-06-2024



भारतीय प्रौद्योगिकी संस्थान तिरुपति

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

एर्पेडु-वेंकटगिरि रोड, एर्पेडु पोस्ट, तिरुपति जिला, आ प्र-517619

Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, A.P- 517619.

7.	Eye Innovation Hackathon 2024	IIT Tirupati in collaboration with SV Aravind Eye Hospital Tirupati	Mr. Hemanth Satyanarayana Founder & CEO, Imagine Software Labs Pvt. Ltd.	23-08-2024 to 24-08-2024
8.	Funding opportunity for early Stage Entrepreneurs	IvyCap Ventures	Ms. Rupali Chowdarys	26-06-2024 to 28-06-2024
9.	Business Boot Camp and Mentoring session for young Entrepreneurs	E - Cell, IIT Tirupati	Dr. Roshan Srivastav Mr. Yuvraj Mr. Divij Gupta	21-08-2024 to 24-08-2024
10.	Innovation Orientation Program by Innovation Ambassador	IIT Tirupati	Dr. K. Thiruppathi	31-07-2024

IIC committee, IIT Tirupati reviewed the overall IIC activities conducted during the quarter-II, III & IV period. Mr. Hemanth Satyanarayana enquired about the IIC outreach activities And Dr. K. Thiruppathi briefed about the dedicated webpage developed for IIC outreach activities as per Ministry requirements and updating the activities.

The meeting ended with thanks.