राष्ट्रीय प्रौद्योगिकी संस्थान आंध्र प्रदेश
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH
Near National Highway No. 16, Kondruprolu,
TADEPALLIGUDEM – 534101 West Godavari District, Andhra Pradesh, India

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

Annual Report 2025-2026

A. About IIC Institute

- Vision / Mission of IIC established at the InstituteTo strengthen Institute Innovation-entrepreneurship eco-system
- Journey of IIC established at the Institute Established year 2018-19
- Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units
  The student and faculty of IIC members are from different departments and external members are from different organizations.
- 5 members completed the innovation ambassador course.

B. Brief mention of key functionaries at the IIC Institute

- **Prof. N. V. Ramana Rao – Chief Patron**
  Officiating Director, NIT Andhra Pradesh. Provides institutional leadership and guidance for the activities and functioning of the Institution's Innovation Council (IIC).
- **Prof. G. Ravi Kiran Sastry – Patron**
  Dean (R&C) & Professor, Department of Mechanical Engineering. Provides academic and institutional guidance to strengthen IIC initiatives and support innovation and related activities.
- **Dr. T. Karthikeya Sharma – President, IIC**
  Associate Dean, International Students & Library Affairs & Assistant Professor, Department of Mechanical Engineering. Provides leadership and coordination for IIC activities and supports the promotion of innovation and related institutional initiatives.
- **Dr. Sri Phani Krishna Karri – Coordinator**
  Associate Dean, Innovations, Incubations and Start-up Policies and Affairs & Assistant Professor, Department of Electrical Engineering. Coordinates IIC activities and supports innovation, incubation, start-up promotion, and related institutional initiatives.
- **Dr. G. Santhosh Kumar – Vice-President**
  HoD, Department of Mechanical Engineering & Assistant Professor. Supports the leadership and coordination of IIC activities and contributes departmental expertise towards innovation-related initiatives.
- **Dr. E. Rajeswara Reddy – Vice-President**
  Associate Dean, Student Discipline, Clubs & Activities & Assistant Professor, Department of Biotechnology. Supports student engagement in IIC activities and contributes to initiatives connecting students with innovation, start-ups, laboratories, and incubation opportunities.
- **Dr. Shaik Mahabu Subhani – Member**
  Assistant Professor, Department of Civil Engineering. Contributes academic and technical expertise to IIC activities and supports innovation-oriented initiatives of the Institute.
- **Dr. Santosh Kumar Behra – Member**
  Assistant Professor, Department of Metallurgical and Materials Engineering. Contributes departmental expertise and supports IIC initiatives related to innovation and technology development.
- **Dr. Amarendar Reddy M – Member**
  Assistant Professor, Department of School of Sciences. Supports IIC activities through academic participation and contributes to interdisciplinary innovation initiatives.
- **Dr. Kuldeep Roy – Member**
  Assistant Professor, Department of Chemical Engineering. Contributes technical and academic expertise towards IIC programmes and innovation-related activities.
- **Dr. S. Nagesh Bhattu – Member**
  HoD, Department of Computer Science and Engineering & Assistant Professor. Supports IIC activities through academic leadership and contributes CSE expertise to innovation and technology-oriented initiatives.

- **Dr. Sarada Prasanna Mallick – Member**
  Assistant Professor, Department of Biotechnology. Contributes academic expertise and supports IIC activities promoting innovation and interdisciplinary engagement.
- **Dr. Krishna Chaitanya – Member**
  Associate Dean, UG Examination Affairs & Assistant Professor, Department of Electronics and Communication Engineering. Supports IIC initiatives through academic coordination and contributes expertise in electronics and communication-related areas.
- **Dr. Soumya Jose – Member**
  HoD, SHM & Assistant Professor. Contributes academic and departmental expertise to IIC activities and supports institutional innovation initiatives.
- **Dr. Naresh Yerramsetty – External Member**
  Assistant Professor, Department of Mechanical Engineering, SVNIT Surat. Brings external academic expertise and supports IIC initiatives through professional and technical inputs.
- **Mr. T. Surya Prakash – External Member**
  District Industrial Promotions Officer, East Godavari District. Provides external perspective from the industrial promotion sector and supports IIC initiatives related to industry engagement and entrepreneurship.
- **Dr. AVS Siva Prasad – External Member**
  Assistant Professor / Professor, Department of Mechanical Engineering, ITDM Kancheepuram. Contributes external academic and technical expertise to support innovation-oriented activities of IIC.
- **Dr. H. N. Das – External Member**
  Scientist-G, NSTL, DRDO, Visakhapatnam. Brings research and scientific expertise from the defence research sector to support IIC innovation and technology-related activities.
- **Prof. C. Krishna Mohan – External Member**
  Professor, Department of Computer Science and Engineering & Former Dean of Public and Corporate Relations. Contributes academic and professional expertise and supports IIC activities through external guidance and institutional perspectives.
- **Dr. K. Venkata Krishna – External Member**
  Assistant Professor / Professor, Department of Computer Science and Engineering, NIT Warangal. Provides external academic and technical inputs to support IIC programmes and innovation-related activities.
- **Prof. Babu Rao Kodali – External Member**
  Director, Navayuga Infotech and Professor and Head, Department of Computer Science and Engineering, Andhra University, Visakhapatnam. Brings academic and industry experience to support innovation, entrepreneurship, and external engagement initiatives.
- **Dr. Mrinal Bhowmik – External Member**
  Assistant Professor, NIT Manipur. Contributes external academic expertise and supports IIC initiatives through knowledge sharing and participation in innovation-related activities.
- **Mr. Nikhil Satyakanth – External Member**
  Managing Director, Sri Nikhil Krishna Solutions. Brings industry and entrepreneurial perspective to support IIC activities related to innovation, start-ups, and industry engagement.
- **Mrs. Thammineni Swathi – External Member**
  President, Godavari Chamber of Commerce & Secretary, Lift NGO Organisation. Provides perspectives from industry and social-sector engagement and supports IIC initiatives through external stakeholder participation.

C. Portfolio/graphical/Tabular representation of Resource strength (human capital and physical capital) of the IIC institution

- Total No. of IIC Members: 24
- Total No. of IAs: 27
- Total No. of faculty Mentors - 14
- Pre-Incubation Units -03
- Incubation Units: The Incubation Cell was established by NIT Andhra Pradesh in August 2023. The IIC Building currently has three dedicated incubation rooms, providing space and facilities for student innovation, prototype development, incubation, and start-up activities.
- IP Facilitation Unit, If any - IPR Cell, NIT Andhra Pradesh

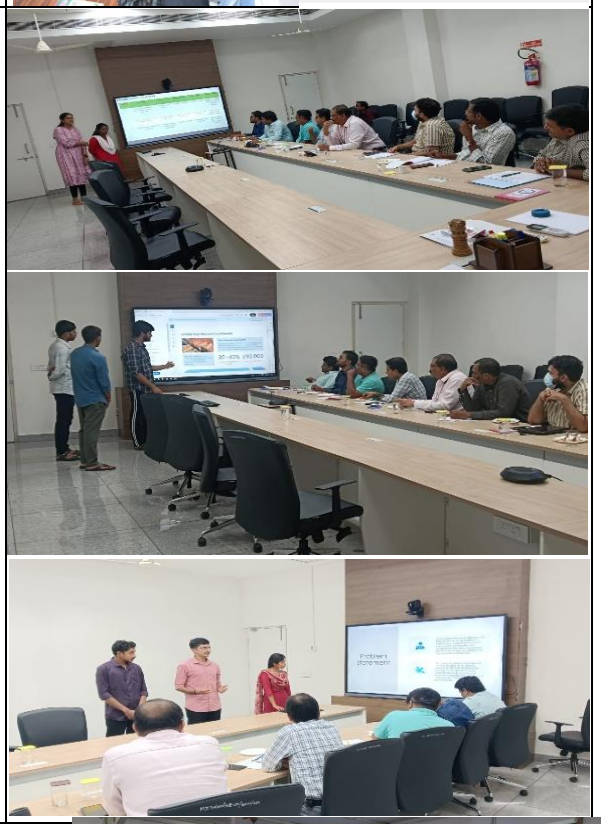
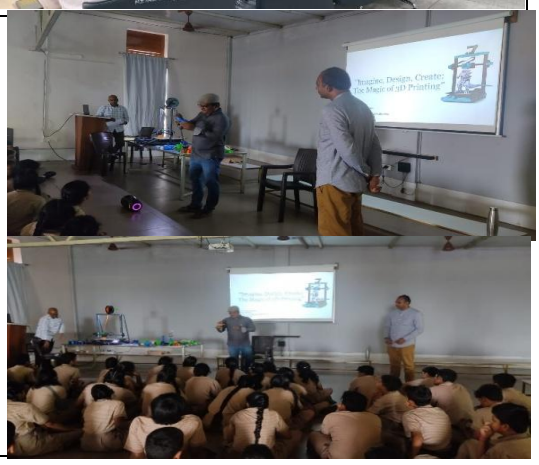
D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

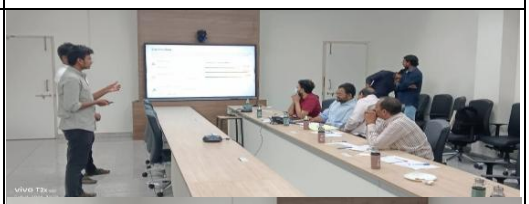
NIT Andhra Pradesh has established a supportive ecosystem for promoting Innovation, Entrepreneurship, Pre-Incubation and Incubation activities on the campus. The Institute has various facilities and infrastructure including **3D Printing Facility, Laboratories, Design Laboratory, GPU Server, IoT Laboratory and IoT Test Bed System, Incubation Rooms**, and other technical facilities that support ideation, experimentation, prototyping, product development and startup activities.

The Institute promotes Innovation and Entrepreneurship through the **Institution's Innovation Council (IIC), NIT Andhra Pradesh Innovation Foundation, student clubs, technical clubs and project teams**. These bodies facilitate and encourage students and faculty to participate in innovation, design thinking, prototype development, IPR, technology transfer, entrepreneurship and startup-related activities.

As part of its efforts to promote Innovation and Entrepreneurship, the Institute has conducted the following activities during the reporting period

1.	**Title of Event**: **Inter/Intra Institutional Hackathon/ Idea Challenge** **Date of Event:** 16-09-2025 **Description:** The Internal Hackathon for Smart India Hackathon (SIH) 2025 was conducted at NIT Andhra Pradesh on 16 September 2025.A total of 48 ideas from 41 teams across multiple disciplines were presented. Dr. S. Phani Krishna Karri, Assistant Professor, Department of Electrical Engineering, served as the SPOC. Each team presented its solution within an allotted time of 10 minutes. Domain experts evaluated the ideas based on novelty, feasibility, scalability, and impact. Based on the jury's recommendations, 35 teams with 41 ideas were shortlisted for the next phase. The event encouraged innovation, collaboration, and practical problem-solving. It promoted student-driven solutions for societal and industrial challenges.	 
2.	**Title of Event: My Story/ Motivational Expert Sessions by Successful innovators & Entrepreneurs** **Date of Event: 06-10-2025** **Description:** A distinguished expert session was conducted on 06th October 2025 featuring Dr. Chandra S. Yelleswarapu, Associate Professor of Physics at the University of Massachusetts Boston and leader of the Experimental Optics Group. In his lecture titled “Digital Holography for Health & Plasmonics for Nonlinear Photonics,” he shared insights into digital holography, biomedical imaging, and emerging plasmonic-based nonlinear photonics. The session highlighted his research on mobile holographic microscopes for healthcare and encouraged interdisciplinary exploration. An interactive Q&A session enabled 40 students to discuss research challenges, emerging technologies, and potential research opportunities.	 

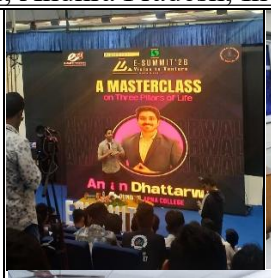
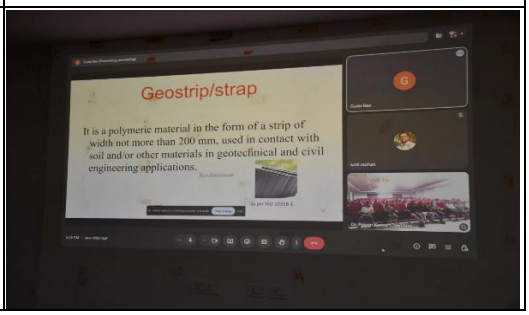
3.	**Title of Event: Workshop on AI and Industry 4.0 Tools for Innovators and Entrepreneurs** **Date of Event: 30-10-2025 & 31-10-2025** **Description:** SkillSpark 1.0, a two-day hands-on in-house workshop, was conducted on 30th and 31st October 2025 for 300 students to provide practical exposure to emerging embedded and Industry 4.0 technologies. The programme featured expert-led demonstrations and hands-on sessions on Arduino Uno, ESP32, STM32, and Raspberry Pi, with applications in sensors, automation, and IoT environments. Technical sessions were delivered by Dr. P. Dinesh Reddy, Dr. P. Sankar, Dr. Sri Phani Krishna Karri, Dr. T. Ramesh, Dr. N. Jayaram, Dr. Sandeep, and Dr. Srikanth Allamsetty. The workshop enhanced students' hardware-software integration, prototyping, problem-solving, and technical communication skills through real-time implementation and guided project development. It also encouraged students to explore innovation, research, product development, and competitive hackathons through practical engineering	
4.	**Title of Event: Demo Day/ Idea Showcase** **Date of Event: 16-09-2025 & 17-09-2025** **Description**: The Ignition Grant 2025 pitch presentations were conducted on 16th and 17th September 2025 under the chairmanship of Prof. G. Ravi Kiran Sastry to promote student innovation and product development. A total of 23 proposals were received, with 21 teams shortlisted and evaluated on innovation, feasibility, market potential, team capability, and budget justification. Following detailed deliberations, six teams were selected for financial support of up to ₹1,00,000 each to develop their ideas into working prototypes. The selected teams will also receive access to GPU servers, compute facilities, 3D printers, IoT development boards, incubation space, and mentorship, encouraging innovation and entrepreneurship among students. The activity provided a structured platform for students to present their ideas before an expert selection committee and receive valuable for further development. It also facilitated the transition of promising concepts into practical prototypes through financial, technical, incubation, and mentoring support.	
5.	**Title of Event: Innovation & Entrepreneurship Outreach Program in Schools** **Date of Event: 28-01-2026** **Description**: A session on 3D Printer-Based Prototyping was conducted at Saraswathi Vidyalaya E.M. High School, Tadepalligudem, by Dr. T. Karthikeya Sharma. The session introduced students to 3D printing and additive manufacturing technologies. Students learned how digital designs are converted into physical objects using layer-by-layer printing. Key concepts such as design thinking, 3D modelling, and STL file formats were explained. A live demonstration provided insights into the 3D printing process, materials, and applications. Students gained awareness of safe handling practices and basic troubleshooting techniques. The session encouraged creativity, curiosity, and interest in	

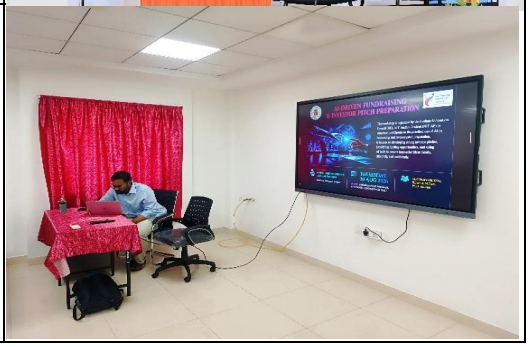
	emerging technologies. It promoted innovation and motivated students to explore future opportunities in technology and entrepreneurship.	
6.	**Title of Event: Organize Inter/Intra- Institution Innovation Competition/Hackathon & Reward Best Innovations** **Date of Event: 03-02-2026** **Description**: The Ignition Grant (2nd Call) 2025 Demo Day/Idea Showcase was conducted on 03rd February 2026 to promote student innovation, entrepreneurship, and product development. A total of 13 proposals were received, of which 10 teams were shortlisted to present their innovative ideas before the selection committee. The pitch presentations were conducted under the chairmanship of Prof. G. Ravi Kiran Sastry, along with the convenor, co-convenor, and committee members. The proposals were evaluated based on innovation, feasibility, market potential, team capability, and budget justification. Following detailed deliberations, two teams were selected for the Ignition Grant (2nd Call) 2025. Each selected team will receive financial assistance of up to ₹1,00,000 to develop their ideas into working prototypes. The teams will also have access to GPU servers, compute facilities, 3D printers, IoT development boards, incubation space, and mentorship. The initiative provided a platform for validating innovative concepts and strengthening students' entrepreneurial capabilities.	  
7.	**Title of Event: Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & TechTransfer** **Date of Event: 13-03-2026** **Description**: A five-day Skill Development Program on **"Applications of UAVs in Wireless Communication and Disaster Management"** was conducted with **95 students from NIT Andhra Pradesh and other institutions** participating. The programme provided theoretical and practical exposure to UAV architecture, wireless communication, MATLAB-based physical layer modelling, signal processing, and disaster management, supported by expert sessions from **IIT Tirupati, NIT Warangal, IIT Madras, SRM University AP, and TBR Group**. Drone demonstrations, hands-on sessions, leadership and entrepreneurship interactions, and an industrial visit to **IIT Hyderabad** enhanced students' practical knowledge and awareness of emerging UAV applications in wireless communication and disaster management. The programme provided participants with a comprehensive understanding of **UAV-based communication systems, aerial networks, signal transmission, and data processing techniques**. Practical sessions enabled students to gain hands-on experience in UAV operations and simulation-based analysis using MATLAB. The disaster management component highlighted the use of UAVs for **surveillance, emergency communication, damage assessment, search and rescue, and rapid response operations**. Expert interactions exposed participants to current research trends, technological challenges, and potential applications of UAVs across different sectors. The industrial visit further helped students understand advanced research and development practices and the practical implementation of emerging technologies. The programme encouraged students to identify **innovative problem statements and develop technology-driven solutions** in wireless communication, disaster management, and related domains. It also promoted interdisciplinary learning, teamwork, leadership, and entrepreneurial thinking among the participants. Overall, the programme strengthened students' technical competencies and motivated them to pursue **research, innovation, higher studies.**	   

8.	**Title of Event:** Workshop on Design Thinking, Critical thinking and Innovation Design **Date of Event: 20/01/2026 to 13/02/2026** **Description:** An Entrepreneurship cum Skill Development Programme (ESDP) under the RAMP scheme was conducted in association with MSME Technology Centre, Visakhapatnam, for 60 students in the Mechanical Engineering domain. The 20-day programme comprised 52 hours of structured, industry-oriented training covering machine tools, welding, industrial metrology, dynamic balancing, bearings, gears and gearboxes, hydraulics, lubrication, and equipment troubleshooting. Practical demonstrations, case studies, and real-time industrial applications were integrated with theoretical concepts, along with sessions on safety, quality control, 5S workplace management, and quality circles. The programme enhanced participants' hands-on skills in equipment operation, precision measurement, mechanical assembly, maintenance, and inspection. It also strengthened their problem-solving abilities, industrial awareness, and readiness to meet current workplace requirements.	   
9.	**Title of Event:** Workshop on Effective Sales and Marketing Strategies for Entrepreneurs /Start-up **Date of Event: 20/01/2026 to 13/02/2026** **Description**: A 20-day workshop on Digital Design Using Verilog was conducted from 20th January to 13th February 2026 in association with MSME Technology Centre, Visakhapatnam, for ECE and EEE students. The programme focused on strengthening participants' understanding of digital design and VLSI concepts, covering the complete Verilog design flow from specification and modelling to simulation, synthesis, implementation, fabrication, and testing. Participants explored modules, hierarchical design, data types, vectors, arrays, memories, parameters, testbenches, gate-level and dataflow modelling, continuous assignments, and delay concepts. The training combined structured theoretical learning with examples, demonstrations, and industry-oriented practices, enabling students to develop modular Verilog programs and simulate digital circuits effectively. The workshop was well received for its clear and systematic approach, practical orientation, and industry collaboration, while also enhancing students' understanding of real-world digital design applications.	     
10.	**Title of Event: Innovation Showcase:** **Demo Day/Exhibition/ Presentation of Innovators /Prototypes & Linkage with Innovation Ambassadors/Experts for Mentorship Support** **Date of Event: 08-12-2025** **Description**: A Demo Day Exhibition and Presentation of Innovations/Prototypes was organized as part of the technical fest	

	Techkriya under the aegis of the Institution's Innovation Council (IIC). The event provided a platform for students to showcase their creativity, technical expertise, and innovative solutions through working prototypes and demonstrations. The exhibition featured themed displays such as "Nature," highlighting sustainable and socially relevant innovations. Students actively interacted with visitors, explained their prototypes, and discussed their practical applications. Faculty members, peers, and visitors offered valuable feedback and suggestions for further improvement of the projects. The event created an engaging environment for hands-on learning, collaboration, knowledge exchange, and strengthening the culture of innovation among students.	 
11.	**Title of Event:** National Science Day **Date of Event: 28-02-2026** **Description**: On the occasion of National Science Day, a Guest Lecture on "Role of Geospatial Technologies in National Development" was organized on 28th February 2026. The session featured Mr. Vishnuvarjhula S.V.S.S.S. Rama Murthy, an experienced Geospatial and Cartography professional and former NRSC-ISRO expert, who shared insights into Remote Sensing, GIS, and Digital Cartography. The lecture highlighted applications of geospatial technologies in agriculture, urban planning, water resources, environmental monitoring, and disaster management. The speaker also discussed India's achievements in space technology, including Chandrayaan-3, and emerging career opportunities in geospatial sciences. An interactive session addressed students' queries on careers in ISRO, higher education, and the future scope of space-based technologies. The programme inspired students and faculty to pursue research-driven careers and strengthened scientific temper, innovation, and interest in geospatial technologies.	   

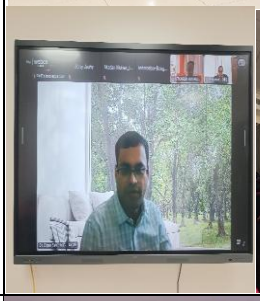
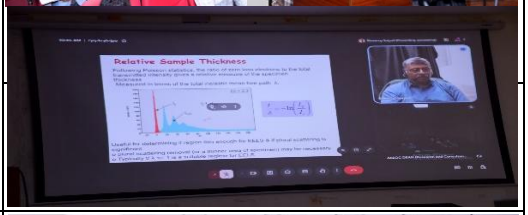
12.	**Title of Event:** Session on Start-up Legal & Ethical Steps **Date of Event: 08-12-2025** **Description:** An expert session on "Start-up Legal & Ethical Steps" was conducted by Dr. K. Venkata Krishna, Assistant Professor, NIT Warangal, under the aegis of the Institution's Innovation Council (IIC). The session provided participants with a structured understanding of start-up formation, including business entity selection, registration, regulatory approvals, and statutory compliance. Key areas covered included Intellectual Property Rights, contractual agreements, taxation, funding regulations, and investor-related legal safeguards. The session also emphasized ethical entrepreneurship through transparency, data privacy, responsible innovation, fair trade practices, and stakeholder accountability. Real-world case references and interactive discussions helped participants understand common legal risks, compliance requirements, and effective governance practices. The programme equipped participants with practical knowledge to build legally compliant, ethically responsible, and sustainable entrepreneurial ventures.	 
13.	**Title of Event: Organize an Intra/Inter Institutional Business Plan Competition and Reward the Best Innovations and Deposition in the Institution'Syukti Innovation Repository** **Date of Event: 25-03-2026** **Description: GENESIS 2.0**, a Student Project and Startup Idea Expo, was organized by the **Department of Electrical Engineering, NIT Andhra Pradesh**, under the aegis of the **Institution's Innovation Council (IIC)** on **25 March 2026**. The event served as a vibrant platform for students to present their innovative projects, startup ideas, prototypes, and technological solutions. A total of **83 student projects** were exhibited, covering diverse areas of engineering, technology, innovation, and entrepreneurship. The expo provided students with an opportunity to demonstrate their technical creativity, receive feedback, interact with faculty and experts, and explore the potential for further development and commercialization of their ideas. The event also featured a **project competition**, where promising and innovative projects were evaluated and recognized through **awards and cash prizes**. The participation of faculty members, industry experts, and students from various institutions encouraged knowledge sharing, collaboration, and networking. GENESIS 2.0 contributed to strengthening the **innovation and entrepreneurship ecosystem** on campus by motivating students to move beyond conventional academic projects and develop practical solutions to real-world challenges. The event also encouraged students to explore startup opportunities and transform their innovative ideas into viable products and ventures.	   

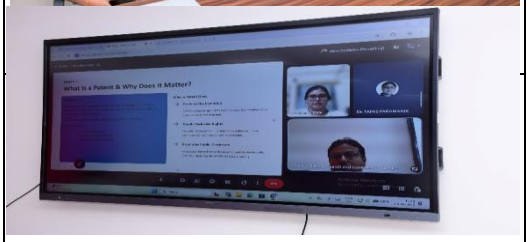
14.	**Title of Event: Field/Exposure Visit to Incubation Units/Patent Facilitation/Tech Transfer** **Date of Event: 25-03-2026** **Description:** Students from Team Velocity participated in EDD Enigma, E-Summit 2026 organized by the Entrepreneurship Cell, IIT Madras, as part of an exposure visit to the innovation and startup ecosystem. The four-member team successfully cleared nationwide online screening rounds focused on business fundamentals and analytical problem-solving. At the Grand Finale, the team presented an innovative solution on Event Ticket Management and Ticket Hoarding Prevention before an expert panel of investors and judges. The event provided valuable exposure to entrepreneurship, business strategy, startup pitching, and real-world enterprise challenges. The interaction with experts and fellow participants enabled students to gain broader perspectives on innovation and startup development. The participation enhanced their analytical thinking, teamwork, problem-solving skills, confidence, and understanding of entrepreneurial ecosystems. It also encouraged students to explore innovative solutions and actively engage in future entrepreneurial and business development opportunities.	   
15.	**Title of Event:** Expert Talk on "Clot Growth in Flowing Blood: Comparison of Two Reduced Order Models **Date of Event: 18-03-2026** **Description**: An expert talk titled "Clot Growth in Flowing Blood: Comparison of Two Reduced Order Models" was organized by the Department of Chemical Engineering in collaboration with the Institution Innovation Council (IIC). Prof. Anand Mohan discussed the mechanisms of blood clot formation under dynamic flow conditions and the development of reduced order models. The session compared two modelling approaches based on accuracy, computational efficiency, and practical relevance. It provided interdisciplinary insights connecting fluid dynamics, applied mathematics, and biological systems with biomedical research. Faculty members, research scholars, and students actively participated in the session and gained exposure to advanced modelling techniques and their healthcare applications. The programme encouraged scientific curiosity and further exploration of innovative research in biomedical engineering.	  
16.	**Title of Event:** Expert Talk on "Decennial Lecture Series" **Date of Event: 18-03-2026** **Description**: An online Decennial Lecture Series on **"Applications of Geosynthetics in Highways and High-Speed Railways"** was organized by the **Department of Civil Engineering** in collaboration with the **Institution's Innovation Council (IIC)**. **Dr. G. Venkatapaprao** delivered the expert lecture focusing on the emerging applications of geosynthetics in modern transportation infrastructure.	

	The session highlighted design considerations, performance benefits, and innovative applications of geosynthetic materials for enhancing the durability, stability, and sustainability of highways and high-speed railway systems. Current research developments, practical challenges, and emerging opportunities in large-scale infrastructure projects were also discussed. The lecture benefited students, research scholars, and faculty members by providing valuable insights into advanced construction technologies and transportation engineering. The session also emphasized the role of **innovative materials and sustainable engineering practices** in addressing challenges associated with modern infrastructure development. Participants gained insights into the **selection, design, and field implementation of geosynthetic solutions** for different transportation applications. The lecture encouraged participants to explore **research and innovation opportunities** in geotechnical and transportation engineering. An interactive discussion and Q&A session further enabled participants to clarify technical aspects and understand practical applications of the concepts discussed.	 
17.	**Title of Event: Cyber Jagrukta Divas – Expert Talk on Cyber Awareness Program** **Date of Event: 01-04-2026** **Description**: The Institution's Innovation Council (IIC), in collaboration with the Web, Network & Teleservices Section (SWNT), successfully organized an **Expert Talk on Cyber Awareness** on the occasion of **Cyber Jagrookta Diwas** at the National Institute of Technology Andhra Pradesh. The session was conducted on **April 1st at PMMM Block**, aiming to enhance awareness among students and staff about the growing importance of cybersecurity in today's digital world. The program featured **Dr. A. Chandra Sekhara Rao** as the Chief Guest, who delivered an insightful talk on key aspects of cybersecurity, including cybersecurity threats, safe digital practices, and the role of Artificial Intelligence in cybersecurity. The session emphasized the need for responsible online behavior, data protection, and proactive measures to safeguard digital assets. The event witnessed active participation from students, faculty, and staff, reflecting their keen interest in understanding cyber risks and adopting secure practices. This initiative under IIC aligns with its objective of fostering awareness, innovation, and responsible use of technology among the academic community. The session also highlighted emerging cyber threats and the importance of developing digital resilience in academic and professional environments. Participants were encouraged to adopt secure online practices and remain vigilant against evolving cybersecurity risks.	    
18.	**Title of Event:** Driven Fundraising & Investor Pitch Preparation **Date of Event: 20-08-2026** **Description**: A masterclass on "AI-Driven Fundraising & Investor Pitch Preparation" was organized to equip student innovators with practical approaches for converting technical projects and prototypes into venture-ready startups. Dr. Sri Phani Krishna Karri, Assistant Professor and IIC Coordinator, covered AI-assisted market sizing, financial modelling, pitch deck development, investor discovery, outreach, and fundraising pipeline management. The session also presented a campus spinout case study and practical guidance on	

	venture funding, followed by an interactive discussion on grants, valuation, investor outreach, and startup formation. The programme provided participants with actionable frameworks for strengthening startup readiness and translating innovations into market-oriented ventures.	
19.	**Title of Event:** Innovation/ Prototype Validation & "Value Proposition Fit & Business fit" **Date of Event: 21-08-2026** **Description**: A workshop on "Innovation or Prototype Validation and Value Proposition Fit and Business Fit (Smart India Hackathon)" was organized to strengthen students' understanding of practical innovation and prototype development methodologies. Dr. T. Karthikeya Sharma, President of IIC, served as the coordinator and guided participants on problem statement analysis, prototype validation, value proposition mapping, and business feasibility. The session emphasized user-centric validation, technical feasibility, market readiness, and alignment of prototype features with real-world requirements. An interactive discussion enabled 75 B.Tech, M.Tech, and Ph.D. students to explore market validation, business fit assessment, and strategies for national hackathons. The programme enhanced students' innovation, problem-solving, and entrepreneurial skills while encouraging the development of sustainable and field-validated solutions.	 
20.	**Title of Event:** Learn Startup and MVP Bootcamp / Mentoring Workshop **Date of Event: 31-08-2026** **Description**: A Learn Startup and MVP Bootcamp / Mentoring Workshop was organized by the **I&E-Cell and IIC of NIT Andhra Pradesh** to develop entrepreneurial capabilities and guide students in transforming ideas into market-ready ventures. **Mr. Akshay Mahendru, CEO & Co-Founder of Nootie and a Shark Tank participant**, shared practical insights from his entrepreneurial journey under the theme **"Vision to Venture: The Journey from Ideas to Impact."** The session focused on lean startup principles, MVP development, idea validation, value proposition refinement, and scalability. An interactive Q&A addressed entrepreneurship, innovation, decision-making, fundraising, and transitioning student projects into commercial ventures. The workshop strengthened participants' entrepreneurial mindset and provided actionable frameworks for developing sustainable and market-oriented startups. **Participants also gained insights into identifying customer needs, testing business assumptions, and refining their solutions based on market feedback. The session encouraged students to pursue innovation-driven ventures and build scalable solutions with real-world impact.**	    

21.	**Title of Event:** Demo Day/Exhibition of Start-Ups & Linkage with Innovation Ambassadors/Experts for Mentorship Support **Date of Event: 27-08-2026** **Description**: A mentoring and Demo Day/Exhibition/Poster Presentation session was organized to strengthen student innovation, technical presentation skills, and readiness for national hackathons. Dr. T. Karthikeya Sharma, Associate Professor, NIT Andhra Pradesh, guided student teams on prototype development, technical pitch refinement, startup opportunities, institutional resources, incubation support, and collaborative innovation. Students presented projects across diverse SIH themes, including AI for Smart Urban Mobility, Agri-Commerce, Smart Tourism, Cybersecurity, HealthTech, Renewable Energy, Robotics, and Drones. The session enabled teams to receive expert feedback on technical architectures, problem-solving approaches, product development, and presentation strategies. Faculty members, research scholars, and student innovators actively participated, with emphasis on structured team formation, documentation, and submission workflows. The activity strengthened students' technical confidence, innovation capabilities, and preparedness for upcoming technical evaluations and venture development.	
22.	**Title of Event:** Panel discussion with innovation and Start-up Ecosystem Enablers from the Region/State/National level **Date of Event: 28-08-2026** **Description**: A Build with AI Bootcamp was organized in collaboration with Google Developer Student Club (GDSC), Google, and Hack2Skill to provide students with practical exposure to Artificial Intelligence and cloud technologies. The session introduced participants to AI/ML concepts, application development, and deployment using modern Google AI tools and cloud platforms. Conducted under the coordination of GDSC Lead Akshatha M, the bootcamp emphasized hands-on learning, real-world applications, and industry-relevant technical skills. Participants benefited from interactive technical sessions, official Hack2Skill certifications, and practical insights into emerging AI technologies. The programme enhanced students' confidence and ability to apply AI tools in academic projects, innovation activities, and future technological endeavours.	

23.	**Title of Event:** MeitY Startup Hub: Empowering Innovation in HEIs **Date of Event: 10-09-2026** **Description**: An online MIC-Driven Activity on "MeitY Startup Hub: Empowering Innovation in HEIs" was organized by the Ministry of Education's Innovation Cell (MIC) and AICTE to strengthen innovation, R&D, and startup ecosystems in Higher Educational Institutions. The session featured Shri Dipan Kumar Sahu, Shri Utkarsh Mathur, Shri Abhishek Ranjan Kumar, and Ms. Selvarani S, who provided insights into startup opportunities, incubation support, funding mechanisms, and capacity-building programmes. The resource persons highlighted pathways for converting research projects, laboratory prototypes, and hackathon ideas into scalable ventures through MeitY Startup Hub initiatives. The session also covered intellectual property support, mentorship networks, industry linkages, and collaboration with investors and incubation centres. Participants gained practical guidance on IIC activities, reporting workflows, and institutional mechanisms for nurturing technology-driven startups. The programme strengthened awareness of national innovation support systems and encouraged HEIs to build sustainable ecosystems for research, innovation, and entrepreneurship.	   
24	**Title of Event: Research Symposium** **Date of Event: 07-08-2026** **Description**: As part of the IIC initiatives at NIT Andhra Pradesh, a Research Symposium on "Electron Microscopy: Understanding the Working Principles and Applications" was organized on 07 August 2026 at the Conference Hall, MMM 021. The programme was conducted under the leadership of Dr. Tapas Paramanik, AD R&C (SSRI) and President, R&D Cell (IIC). Dr. Biswarup Satpati, SINP Kolkata, and Dr. Ahin Roy, IIT Kharagpur, delivered expert sessions on TEM, STEM, and advanced material characterization techniques. The interactive programme provided participants with valuable insights into modern electron microscopy and its applications in research and innovation.	   
25.	**Title of Event:** Intellectual Property (IP) Generation and Commercialization **Date of Event: 08-08-2026** **Description**:As part of the IIC initiatives at NIT Andhra Pradesh, a workshop on "Intellectual Property Rights: IP Awareness and Patent Filing" was organized on 08 August 2026 in offline mode. The programme was conducted under the leadership of Dr. Tapas Paramanik, AD R&C (SSRI) and President, R&D Cell (IIC). Mr. V.	

	Saiteja, Indian Patent Agent, Patent Mitra Legal Services, and Adv. Manisha Mishra, Managing Partner, Mishra IP, delivered expert sessions on patent protection, patentability, filing procedures, and First Examination Reports (FERs). The interactive sessions provided participants with practical insights into protecting research outcomes and intellectual creations. The programme witnessed participation from 50 students, research scholars, and academicians, promoting awareness of IPR and fostering a culture of innovation and research. The workshop also highlighted the importance of identifying and protecting innovative ideas at an early stage. Participants gained awareness of the role of IPR in technology development, commercialization, and safeguarding research-based innovations.	 
26.	**Title of Event:** Faculty & Student R&D Orientation Program **Date of Event: 31-08-2026** **Description**: The R&D Orientation Programme was organized by the R&D Cell (IIC), NIT Andhra Pradesh, on 31 August 2026 to strengthen the research and innovation ecosystem of the Institute. The programme was coordinated by Dr. Tapas Pramanik, Associate Dean (Research & Consultancy). It focused on research and development, research ethics, funding opportunities, research problem identification, and proposal development. An expert interaction with Prof. Chandra Sekhar Sharma, IIT Hyderabad, provided valuable insights into research quality, originality, innovation, and impact. The programme enhanced participants' understanding of competitive research and funding opportunities. It also encouraged faculty members and research scholars to pursue innovative, ethical, and impactful research and collaborations.	   
27.	**Title of Event:** Research Proposal Writing Workshop **Date of Event: 31-08-2026** **Description**: A Research Proposal Writing Workshop was organized by the R&D Cell to strengthen the research proposal development skills of faculty members and research scholars. Dr. Tapas Pramanik, Associate Dean (Research & Consultancy), coordinated the programme, which focused on research problem identification, objective formulation, methodology, literature review, expected outcomes, budgeting, and suitable funding opportunities. Prof. Parameswarao Alapati, Ex-Director, GKCIET, Malda, delivered the expert session and provided practical guidance on proposal structuring, research methodology, budgeting, and alignment with funding agency requirements. The session emphasized clarity, originality, relevance, feasibility, and measurable outcomes in developing competitive and fundable proposals. Interactive discussions enhanced participants' understanding of external funding requirements and effective project planning. The workshop encouraged faculty members and research scholars to pursue quality research, innovation, collaboration, and externally funded research opportunities. The programme also motivated participants to develop well-structured proposals aligned with national research priorities and emerging areas of scientific and technological development.	  

E. Highlight Achievements (Narrative/Graphical/Tabular representation)

- Number and Different types of I&E and IPR activities Conducted – **27 documented activities**.
- No. of student's & faculty ideas generated – **10.**
- No. of student's & faculty Innovation/prototypes developed – **10 Student Innovations/Prototypes Developed.**
- No. of IPs generated, published, and granted: IPs Filled-3, Published -1 & Granted-3
- No. of Student & Faculty Start-ups/Ventures established – Student Start-ups/Ventures: 1
  (ASTA Health Tech Private Limited – Student Start-up)
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus – **Rs. 6,19,560/-**
- No. of Technology Transfer and Commercialisation Happened – Nil

F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum

- **Smart India Hackathon (SIH) 2025:** NIT Andhra Pradesh secured the **3rd Overall Prize among 55 ISRO finalists**, along with a **₹50,000 cash award**, for the innovative **"LUNABOT"** solution under ISRO Problem Statement PS 25169.
- **Ignition Grant 2025:** The Ignition Grant presentations were conducted **twice**, providing teams with opportunities to pitch their innovative ideas and projects. A total of **8 teams were selected** and provided **financial support of up to ₹1,00,000 per team**, along with access to institutional facilities and mentorship support.
- **Team Velocity**, comprising four student members, successfully cleared nationwide screening rounds and was shortlisted for the Grand Finale of **EDD Enigma, E-Summit 2026** at IIT Madras, where the team presented a solution on Event Ticket Management and Ticket Hoarding Prevention before an expert panel of investors and judges.

G. Highlight selected best Innovations & images with mention of inventor/innovation name

- **LUNABOT – Autonomous Navigation of Robots for Lunar Habitats**, developed by a **student team of NIT Andhra Pradesh**. The innovation secured the **3rd Overall Prize among 55 ISRO finalists in SIH 2025**.
- **AI for Smart Urban Mobility (MUI Edge)** – student innovation presented under the Smart India Hackathon themes during the mentoring and Demo Day session.
- **NetraVerse (Team AetherIQ)** – a cybersecurity-focused innovation based on a zero-trust threat detection approach.

H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

- **ASTA Health Tech Private Limited – Student-led start-up founded by Karthick Seshadri, focusing on the design of IoT devices and software integrating AI in healthcare, established on 13-01-2025**
- **ASTA Health Tech Private Limited – Student Start-up**
  Founder: Karthick Seshadri
  Area: IoT devices and AI-integrated software for healthcare.

I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation)

- **AI for Smart Urban Mobility (MUI Edge):** A student innovation presented during the mentoring and Demo Day session under Smart India Hackathon themes, focusing on real-time fleet analytics and traffic management through an integrated technical architecture.

- **NetraVerse (Team AetherIQ):** A cybersecurity innovation based on a zero-trust architecture for threat detection, presented as part of the student innovation showcase and mentoring activities.

J. Participation of IIC-institute in various programs of Central and State Govt. Highlighting specially for the schemes or programs

- **Smart India Hackathon (SIH) 2025:** The Institute participated in the national-level innovation initiative organized by the Ministry of Education in collaboration with AICTE and ISRO.
- **SIH 2025 Achievement:** NIT Andhra Pradesh secured the **3rd Overall Prize among 55 ISRO finalists** and received a **cash award of ₹50,000** for its innovative solution under ISRO Problem Statement PS 25169 – *"LUNABOT: Autonomous Navigation of Robots for Lunar Habitats."*
- **MIC-Driven Program:** The Institute participated in **"MeitY Startup Hub: Empowering Innovation in HEIs,"** focusing on startup opportunities, incubation support, funding mechanisms, IPR support, and mentorship.
- **NISP Adoption status :** NIT Andhra Pradesh has adopted the National Innovation and Startup Policy (NISP) for promoting innovation, entrepreneurship, and startup activities among students and faculty.

K. Detail of social media & Connections of IIC institute

The Institution's Innovation Council (IIC), NIT Andhra Pradesh, uses various digital and social-media platforms to disseminate information related to innovation, entrepreneurship, intellectual property rights, incubation activities, workshops, competitions, seminars, and other IIC initiatives.

- **Institute Website:** NIT Andhra Pradesh official website – IIC-related activities and announcements
- **IIC/MIC Portal:** Participation and reporting of IIC activities through the Ministry of Education's Innovation Cell (MIC) IIC portal
- **LinkedIn:** Sharing IIC activities, achievements, events, innovation and entrepreneurship initiatives
- **Facebook:** Dissemination of IIC events, programmes and student achievements
- **Instagram:** Sharing event updates, posters, photographs and innovation-related activities
- **YouTube:** Sharing videos of lectures, workshops, awareness programmes and other IIC activities
- **WhatsApp:** Communication and coordination with IIC members, faculty, students, mentors and participants
- **Email:** Official communication with students, faculty members, experts, mentors and external stakeholders

L. External Members of IIC

1. Dr. Naresh Yerramsetty – External Member

Assistant Professor, Department of Mechanical Engineering, SVNIT Surat. Brings external academic expertise and supports IIC initiatives through professional and technical inputs.

2. Mr. T. Surya Prakash – External Member

District Industrial Promotions Officer, East Godavari District. Provides external perspective from the industrial promotion sector and supports IIC initiatives related to industry engagement and entrepreneurship.

3. Dr. AVS Siva Prasad – External Member

Assistant Professor / Professor, Department of Mechanical Engineering, ITDM Kancheepuram. Contributes external academic and technical expertise to support innovation-oriented activities of IIC.

4. Dr. H. N. Das – External Member

Scientist-G, NSTL, DRDO, Visakhapatnam. Brings research and scientific expertise from the defence research sector to support IIC innovation and technology-related activities.

5. Prof. C. Krishna Mohan – External Member

Professor, Department of Computer Science and Engineering & Former Dean of Public and Corporate Relations.

Contributes academic and professional expertise and supports IIC activities through external guidance and institutional perspectives.

6. Dr. K. Venkata Krishna – External Member

Assistant Professor / Professor, Department of Computer Science and Engineering, NIT Warangal. Provides external academic and technical inputs to support IIC programmes and innovation-related activities.

7. Prof. Babu Rao Kodali – External Member

Director, Navayuga Infotech and Professor and Head, Department of Computer Science and Engineering, Andhra University, Visakhapatnam. Brings academic and industry experience to support innovation, entrepreneurship, and external engagement initiatives.

8. Dr. Mrinal Bhowmik – External Member

Assistant Professor, NIT Manipur. Contributes external academic expertise and supports IIC initiatives through knowledge sharing and participation in innovation-related activities.

9. Mr. Nikhil Satyakanth – External Member

Managing Director, Sri Nikhil Krishna Solutions. Brings industry and entrepreneurial perspective to support IIC activities related to innovation, start-ups, and industry engagement.

10. Mrs. Thammineni Swathi – External Member

President, Godavari Chamber of Commerce & Secretary, Lift NGO Organisation. Provides perspectives from industry and social-sector engagement and supports IIC initiatives through external stakeholder participation.