

**A Report on One day Seminar on**  
**“Engineering the Human–Machine Future: Converging CPS, AI, and Human Intelligence for Industry 5.0”**

organized by **Department of Computer Science & Engineering**  
under AICTE – Distinguished Professional Scheme (DPS)  
**16th March 2026**



The poster features the MITS logo at the top center, flanked by the institute's emblem and a circular seal. Below the logo, it states 'MITS MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (Deemed to be University under section 3 of UGC Act, 1954) Madanapalle-517325, Annamayya Dist., Andhra Pradesh, India'. A blue banner reads 'Department of Computer Science & Engineering organizing A One Day Seminar on Engineering the Human–Machine Future: Converging CPS, AI, and Human Intelligence for Industry 5.0 under AICTE Distinguished Professional Scheme (DPS)'. A central image shows a person's head with gears, and a portrait of Dr. Purnendu Sinha, Ph.D. F.I.E., Professor of Practice at Manipal Institute of Technology, Bengaluru. The date '16.03.2026' and location 'KKB 002 (Seminar Hall)' are noted. At the bottom, a table lists the organizing committee members:

<b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudhary Founder & Chancellor	<b>Patron</b> Shri. N. Dwarkanath Pro - Chancellor	<b>Patron</b> Mrs. Keerthi Nadella Executive Director	<b>Program Chair</b> Dr. G. Yywaraj Vice - Chancellor (I/A)	<b>Program Chairs</b> Dr. D. Pradeep Kumar, Registrar (I/C) Dr. P. Ramanathan, Principal
<b>Guests</b> Dr. C. P. Gupta, Dean/SoC Dr. M. Sreedevi, Professor & HoD/CSE		<b>Co-ordinator</b> Mr. G. Muthugurunathan Asst. Professor/CSE		<b>Co-Coordinator</b> Mr. R. Vijayaganth Asst. Professor/CSE

**Report Submitted by: Mr. G. Muthugurunathan, Assistant Professor, Department of Computer Science & Engineering, MITS**

**Total No. of Participants: 127**

**Location & Mode of Event: KK Block Seminar Hall – Offline Mode**

**Timings: 10.00 AM to 4:00 PM**

**Mode of Conduct: Offline**

**Report Received on 17.03.2026.**

The Department of Computer Science & Engineering, Madanapalle Institute of Technology & Science (Deemed to be University), successfully organized a One Day Seminar on “Engineering the Human–Machine Future: Converging CPS, AI, and Human Intelligence for Industry 5.0” on 16th March 2026 under the AICTE–Distinguished Professional Scheme (DPS). The seminar aimed to provide students and faculty with insights into emerging technological advancements and highlight the convergence of Cyber-Physical Systems (CPS), Artificial Intelligence (AI), and human intelligence in shaping Industry 5.0. The programme commenced at 10:00 AM with a warm welcome address delivered by Mr. G. Muthugurunathan, Assistant Professor, Dept. of CSE who highlighted the relevance of the theme and objectives of the seminar. This was followed by the inaugural address delivered by Dr. R. Nidhya, Professor, Dept. of CSE, and Dr. P. Ramanathan, Principal, MITS, who emphasized the importance of interdisciplinary learning, innovation, and academia–industry collaboration in the current technological landscape.



The resource person for the seminar, Dr. Purnendu Sinha, Ph.D., FIE (India), Professor of Practice, Manipal Institute of Technology, MAHE–Bengaluru, shared his extensive academic and industry experience and delivered an insightful session on Industry 5.0 and human–AI collaboration models. He elaborated on the integration of CPS, AI-driven systems, robotics, and digital transformation across industries. He also highlighted the role of human-centric innovation, sustainability, and collaborative intelligence in shaping the future workforce.



During his address, Dr. Sinha provided real-world case studies from manufacturing, mobility, and smart systems domains, illustrating how advanced technologies are transforming operational efficiency and decision-making. He encouraged students to strengthen their interdisciplinary knowledge, focus on research and innovation, and actively engage in emerging technology domains to become future-ready professionals.

The seminar witnessed enthusiastic participation from faculty members, research scholars, and students. The interactive session enabled participants to clarify their queries and gain deeper insights into Industry 5.0 technologies and their practical implications.

The programme concluded with a vote of thanks delivered by Mr. R. Vijayaganth, Assistant Professor, Dept. of CSE, who acknowledged AICTE–DPS, the institutional leadership, the resource person, organizing committee members, faculty participants, and student volunteers for their valuable support and contribution in making the seminar a grand success.

#### **Outcomes of the Event:**

- **Enhanced Technical Knowledge:** Participants gained a comprehensive understanding of Industry 5.0 concepts, including CPS integration, AI-driven systems, and human-centric innovation.
- **Industry Exposure:** Students and faculty benefited from real-world insights shared by the resource person, bridging the gap between academic learning and industry practices.
- **Interdisciplinary Awareness:** The seminar emphasized the importance of collaboration among computer science, engineering, and allied disciplines in addressing complex technological challenges.
- **Research Motivation:** Faculty members and students were encouraged to explore research opportunities in emerging areas such as AI, robotics, smart manufacturing, and digital transformation.