



## Department of Electronics and Communication Engineering

### Semester II

### Self-Driven Activity

### Quarter 3

Activity Name	<b>Technical Talk on Digital Twin: The Next Generation Industry Revolution</b>
Objective	<ul style="list-style-type: none"> <li>• To introduce the concept of Digital Twin technology and its role in Industry 4.0.</li> <li>• To showcase real-world applications</li> <li>• To highlight entrepreneurial opportunities and inspire towards entrepreneurship</li> </ul>
Date of Activity	17 <sup>th</sup> April 2025
Place of Activity	ECE seminar hall, 4 <sup>th</sup> floor, Main Block
Mode of Conduct	Offline
Time	11.30AM to 1.30PM
Mandatory/Elective	Elective
Participants	Students: 144 Students
Resource Person/s	<b>Mr. Thejesh P, Co-Founder and CEO, Loginware Softtec Pvt. Ltd</b>
Description	<p>The technical talk provided students with an understanding of how digital twins-virtual replicas of <b>physical systems are transforming industries</b> through <b>real-time data</b>, simulation, and predictive analytics. The session covered the core technologies enabling digital twins, such as IoT, AI, and cloud computing, and showcased their applications in manufacturing, healthcare, energy, and smart infrastructure. Students were introduced to the <b>entrepreneurial potential</b> of this emerging field, with insights into how <b>startups and innovators</b> can develop services and solutions around digital twin technology.</p> <p>The session on "<b>Digital Transformation of a Manufacturing Plant</b>" highlighted how modern technologies are reshaping traditional manufacturing into smart, connected, and data-driven environments. Key concepts such as <b>Industry 4.0, Industrial IoT (IIoT), automation, cloud computing, and real-time data analytics</b> were discussed to demonstrate how they enhance productivity, reduce downtime, and improve decision-making. Students gained insight into how digital transformation leads to more agile and sustainable manufacturing operations while opening up new career paths and innovation opportunities in smart industry solutions. The talk concluded by highlighting key challenges, skill requirements, and the future scope of this revolutionary concept in the digital economy.</p>
Activity Outcome	<ul style="list-style-type: none"> <li>• Identify key enabling technologies such as IoT, AI/ML, cloud computing, and their integration.</li> <li>• Analyze practical use-cases where digital twins are applied to optimize real-world systems.</li> <li>• Recognize business and entrepreneurial opportunities</li> </ul>



## Department of Electronics and Communication Engineering



Glimpses of the Technical talk

HOD

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