



Lesson Plan No. 1	Course Name: Foundations of Internet of things and Industry 4.0 Topic: Introduction to Industry 4.0	Course No.: COM-802(C)
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Objectives	Introduce the concept of Industry 4.0, emphasizing the role of sensing and actuation.
Teaching Aids (if any)	Power-point presentation Real-world examples Interactive discussions
Teaching Development	<ol style="list-style-type: none">1. Introduction to Industry 4.0 (5 minutes) Pose questions to gauge prior knowledge. Define Industry 4.0 and its significance.2. Globalization and Emerging Issues (5 minutes) Discuss the impact of globalization on industry. Introduce emerging challenges and opportunities.3. The Fourth Revolution (5 minutes) Highlight the characteristics defining the Fourth Industrial Revolution. Discuss technological advancements.4. LEAN Production Systems (5 minutes) Introduce LEAN principles and their connection to Industry 4.0.5. Smart and Connected Business Perspective (5 minutes) Explore the concept of smart and connected businesses. Discuss the implications on business perspectives.6. Smart Factories (5 minutes) Showcase real-life examples of smart factories. Discuss the integration of sensing and actuation.7. Interactive Discussion (5 minutes) Engage students in a discussion on the importance of sensing and actuation. Encourage questions and reflections.8. Case Study Analysis (5 minutes) Analyze a case study showcasing successful implementation. Discuss outcomes and lessons learned.9. Application Domains (5 minutes) Discuss various application areas of Industry 4.0. Provide real-time examples.10. Summary and Reflection (5 minutes) Summarize key concepts. Facilitate a brief reflection on the importance of sensing, actuation, and Industry 4.0.



Closure	<ol style="list-style-type: none">1. Summarize the lesson's learning outcomes.2. Suggest reading and refer to the content Spend 5 minutes wrapping up and consolidating the learnings.
Evaluation	Evaluation: <ol style="list-style-type: none">1. Reflective Questions (What, Why, Who?). Conduct a minute-paper activity. Spend 5 minutes evaluating student assimilation of the lesson contents.