



# SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)

COIMBATORE-641 035, TAMIL NADU



## 19MEE404 - Product Life Cycle Management (PLM)

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### UNIT 4: PRODUCT LIFE CYCLE MANAGEMENT SYSTEM

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#### 4. The Product Information Data Model (PIDM)

- **Definition:**
  - The PIDM organizes all data related to a product, ensuring consistency and accessibility across the product lifecycle.
- **Functionality:**
  - **Data Consistency:** Ensures that all teams are working with the same, up-to-date information.
  - **Traceability:** Tracks the history of changes to the product data, facilitating audits and compliance.
- **Example:**
  - In a smartphone manufacturing company, the PIDM would include detailed specifications for each component (e.g., screen, battery), along with their version history, ensuring that engineers can trace changes and maintain consistency across the product line.

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#### 5. The Product Model

- **Definition:**
  - A detailed representation of the product, encompassing both its physical and functional characteristics.
- **Components:**
  - **Physical Model:** Includes detailed CAD models, material specifications, and assembly instructions.
  - **Functional Model:** Defines how the product should perform, including specifications for performance, safety, and compliance.



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- **Example:**

- For a new car model, the physical model might include 3D CAD drawings of the chassis, engine, and interior, while the functional model would detail performance criteria like fuel efficiency, safety ratings, and handling characteristics.
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