| | **National University of Sciences and Technology** |
|---|---|
| | **Course Description** |

| **Course Title** | **Course Code** | **Credit Hours** |
|---|---|---|
| Product Life Cycle Management | DME 813 | **3 – 0** |

**Textbook:**
- Product Lifecycle Management: 21st Century Paradigm for Product Realisation (Decision Engineering) by John Stark 4th Edition
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**Reference Books**:

- Product Lifecycle Management by Antti Saaksvuori, 3rd Edition Springer

- Product Lifecycle Management by Michel Grieve

**Course Objective:**

- The significance of product lifecycle management (PLM) is increasing, especially for companies in the manufacturing, high technology, and service industries. Product and component lifecycles are shortening while, at the same time, new products must be delivered to market more quickly than before. This course is intended to prepare the future engineers for effective product lifecycle and product information management. It will support PLM/PDM concepts and system implementation projects as well as providing ideas for developing product data and product lifecycle management in businesses.

**Course Outline:**
- General Introduction, PLM Fundamentals, PLM System's Functions and Architecture, Various Business Functions and PLM Support, Product Structures, Integration of PLM system, Deployment of PLM system, Maturity models of PLM system, Factors leading to PLM, PLM in manufacturing environment, PLM in service environment, PLM and collaboration, PLM and e-business, Presentations.

**ASSESSMENTS**

| **Description** | **Percentage Weightage (%)** |
|---|---|
| Assignments | 05-10% |
| Quizzes | 10-15% |
| Mid Semester Exams | 30-40% |
| End Semester Exam | 40-50% |