SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

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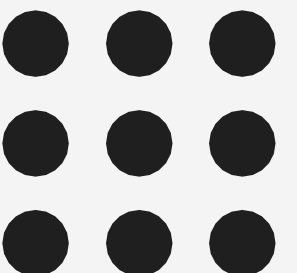Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

COURSE NAME: 19OE116 - PRODUCT DESIGN AND DEVELOPMENT

III YEAR / VI SEMESTER

Unit 1 - INTRODUCTION

Topic 5 – Relevance of product life cycle issues in design

The product life cycle refers to the stages a product goes through from its initial concept to its eventual disposal or retirement.

This life cycle typically includes stages like development, introduction, growth, maturity, and decline.

The relevance of product lifecycle issues in design is crucial, as the decisions made during the design phase can significantly impact the product's performance, sustainability, and overall success throughout its life.
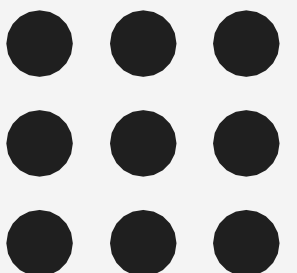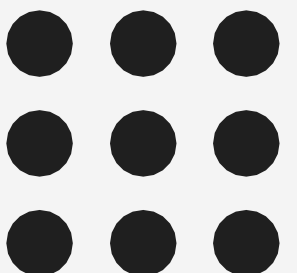
- **Sustainability and Environmental Impact**

- **Cost Efficiency and Profitability**

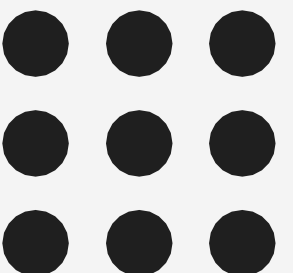- **User Experience and Satisfaction**
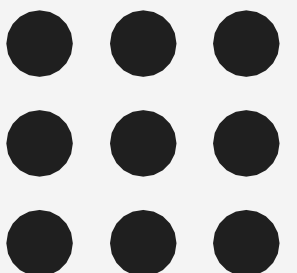
- **Adaptability and Scalability**

- **Maintenance and Support**

- **End-of-Life Management**

- **Regulatory Compliance**

- **Innovation and Competitive Advantage**
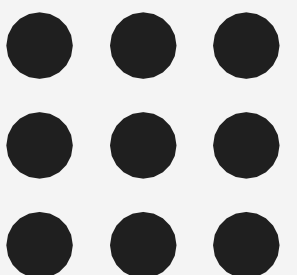
- **Branding and Market Position**

Designers must consider the entire lifecycle of a product—from development to disposal—during the design phase.

By accounting for factors like sustainability, cost efficiency, user experience, adaptability, and end-of-life management, designers can create products that not only meet immediate needs but also deliver long-term value.

Effective design ensures that a product remains competitive, sustainable, and economically viable throughout its lifecycle, helping it thrive in an ever-changing market.

Thank You…