Technology Management in Operations

Course Content

- Corporate Strategy and Technology
 Pitfalls of functional based strategies
 Strategic Integration of Technology and Operations
- Technology Management and New Product Development (NPD)
 Corporate Strategy and New Product Development
 Organization for NPD
- Technology management and Idea Generation for NPD
 Discovering customer needs
 Sources for new product ideas
 Market assessment and value analysis
 Evaluation of new product ideas
- Technology management and NPD project selection
 Assessment of product concept
 Assessment of competitors
 Concept testing
 Financial analysis of projects
- Technology Management and Product design
 Integrated product design
 Design for Quality using Quality Function Deployment
 Design for Reliability
 Design for Manufacturability
- 6. Process Choice
 Business Implication of process choice project, jobbing, line, batch, continuous Hybrid processes batch related, line related
 Technology Strategy flexibility, push vs pull, technological

opportunities

- Make or Buy
 Core elements of the business and strategic considerations
 Span of process and product technology
- Mass Customization
 Market trends
 Pre-requisites for mass customization
 Technologies for mass customization

Reference Text

1. Operation management for competitive Advantage by Chase-Jacobs - Acquilano