



SNS COLLEGE OF TECHNOLOGY



Coimbatore - 35

23BAT613 – Operations Management

UNIT-I Introduction

Historical Development

Presented by

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Department of Management Studies

1st Indian Institution To Implement **Design Thinking Curriculum**

Redesigning
Common Mind and
Business Towards
Excellence



RECAP

Nature and Importance of OM

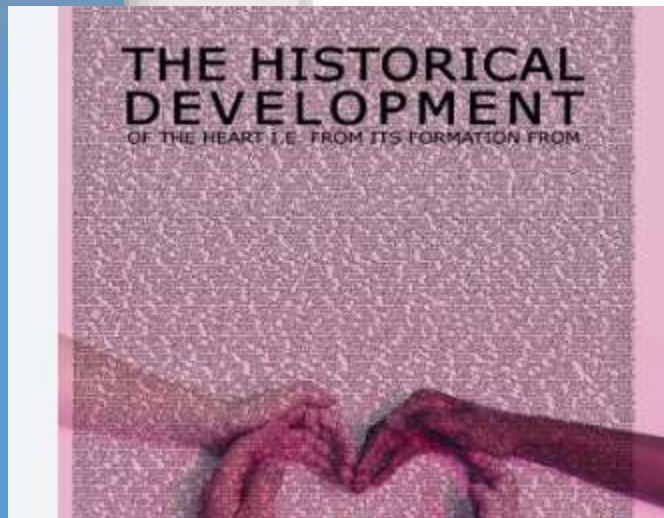


Nature and Scope of Production and Operation Management



TODAY'S TOPIC:

Historical Development



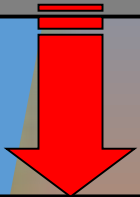
Industrial Revolution – 18th and 19th Century



Manual
Labour to
Hand
Production



Facto based Production



Focus
Use of
Machinery
and Division
of Labour

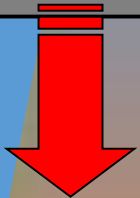




**Improve
efficiency and
productivity**



Time and Motion Study



**Incentive
Based Pay**

Scientific Management Era (Late 19th to Early 20th Century)

- Frederick Taylor W Taylor
- Standardize Work methods
- Specialization and Standardization

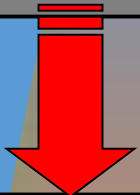


Human Relations Movement (1920s - 1930s)

**Social and
psychological
aspects of
work**



**Interpersonal relationships
and Group Dynamics**



**Employee
satisfaction -
Productivity**

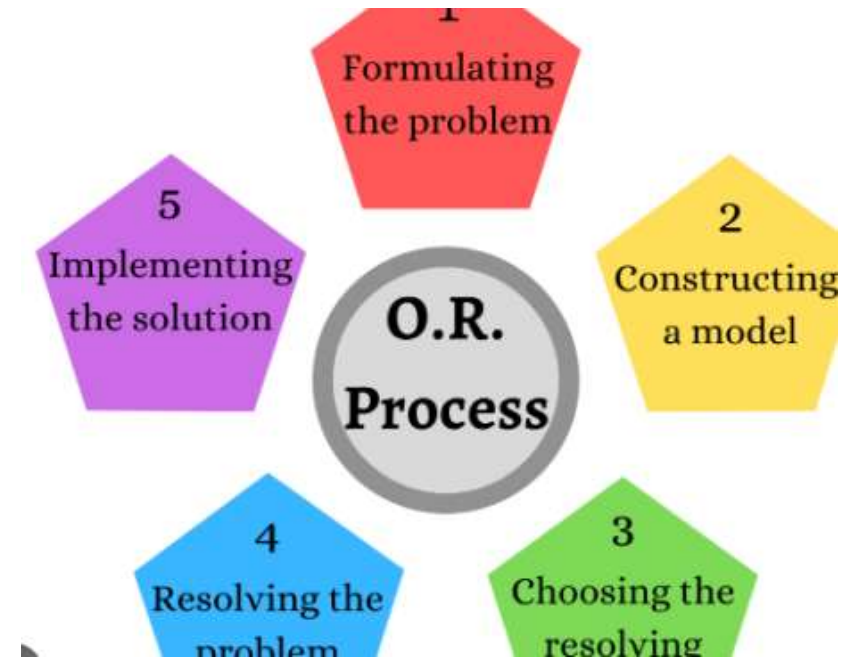
- Elton Mayo
- Hawthorne Experiments





Operations Research (1940s - 1950s)

- World war II - Emergence
- Hawthorne Experiments



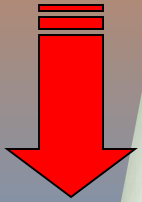
Mathematical and Analytical Methods

OR – Techniques applied

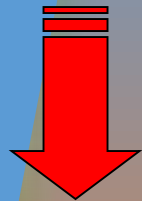
Inventory Management, Scheduling and Transportation



Continuous Improvement



Customer Focus and Employee Involvement



Process Control and Quality Circles

Total Quality Management (TQM) Era (1950s - 1980s)

- W Edwards Deming
- Joseph Juran
- Kaizen
- <https://www.youtube.com/watch?v=xNcO21FwMnk&pp=ygUWc29ueSBrYWl6ZW4gdGVjaG5vbG9neQ%3D%3D>



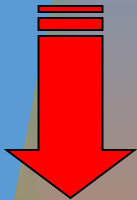


Lean Manufacturing and Just-In-Time (JIT) (1980s - Present)

Eliminate waste and Maximize value

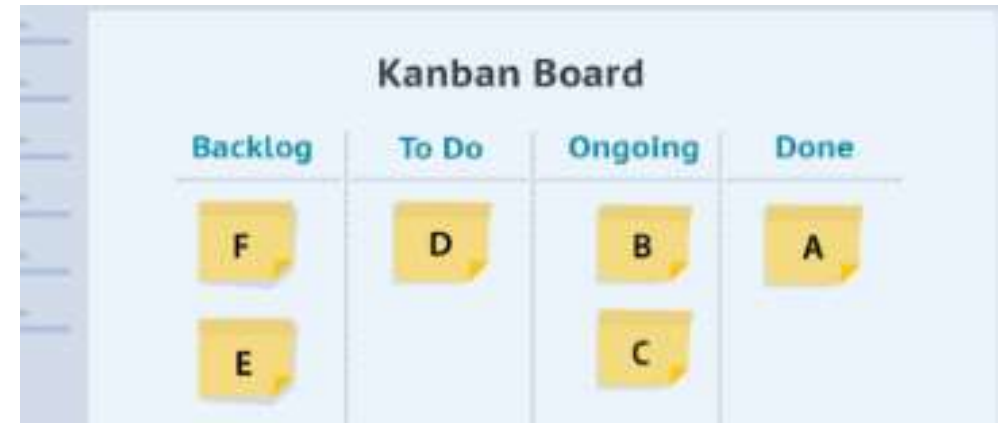


Efficient Production, SCM



Continuous Flow Process

- TPS
- JIT
- Kanban System





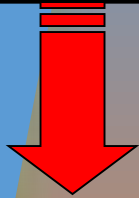
Entire Value Chain

Supply Chain Management (1990s - Present)



**IM, Procurement and
Distribution**

- Integration
- Optimization Techniques



**Efficiency and
Responsiveness**

**Supply Chain
Management
Process**





IoT, AI and Big Data Analytics



Smart Factories, Predictive Maintenance



Real – time and Agile Production System

Industry 4.0 and Digital Transformation (Present):

- Automations - Operations
- Various Concepts

Agile Manufacturing





ASSESSMENT:



The process of converting inputs into outputs is known as:

- a) Marketing
- b) Operations management
- c) Human resource management
- d) Financial management



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