

VISIONARY LEARNING COMMUNITY INDIA

Module –II	EVOLUTION OF MODERN MANUFACTURING	L	T	P	C
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OBJECTIVES:

- Objective of this course is to introduce factory to the Students through the different Method of Production like craftsman and mass production with most relevant examples.
- Explain the entire flow starting with getting raw material from the supplier till supply of parts to the customer through it process and functions

Chapter – 1 Introduction **2**

Introduction - Types of Manufacturing – Input – Output Model of Manufacturing

Chapter -2 Evaluation of Craftsman (Job) Production **2**

Characteristics of Craft Production – Advantages and Disadvantages of Craft (Job) production

Chapter -3 Assembly Line Production **7**

Characteristics – Suitability of Mass Production – Advantages of mass production –Example of evolution of cloth stitching (Tailor to Garment Factory) – Difference between Job Production v/s Mass Production

Chapter – 4 Case study **3**

Craftsmanship – Batch Production (Pai Bakery) – Mass Production (Monginis Bakery)

Chapter – 5 Factory Concept **31**

Introduction - Types of Waste – Things seen in Factory – Finish Goods (FG) store, Packing Section, Inspection and Testing Section, Assembly Line, Shop Floor, Machines, Material Handling Equipment, Store Room, Tool Room – Organization of Men – Technical Staff, Office Staff, Shop Floor Worker – Types of Materials – Raw Material, Semi Finish Parts / Work in Process, Finished Goods, Tools, Spares, Consumables, Scrap – College Canteen / Kitchen & Factory – Input / Output Process model, Supplier –

Manufacturing – Customer Model – Flow Model (Information, Material, Operators)-
Factory Language – Vocabulary

TOTAL: 45 PERIODS

COURSE OUTCOMES:

On successful completion of this course, the student will be able to

CO1: Explain the Different Type of Production

CO2: Explain the Concept of Factory

CO3: To Understand the Knowledge about Assembly Line production and Difference between Job and Mass Production, Character

CO4: Develop Input Process Output (IPO) model for the given parts

CO5: Develop System Dynamic (SD) model through factory observation

REFERENCES:

- Dr.Jayant Kittur, Prof.Sachin Kulkarni “ **Module – 2 Evolution of Modern Manufacturing**” Nutan Maharashtra Institute of Engineering and Technology, Talegaon Pune, Samarth Vidya Sankul, Vishnupuri, Talegaon Dabhade, Pune, Maharashtra – 410507