**Production Management**

**Third Stage – First Semester**

**Asst. Prof. Prabhu Mannadhan**

**Academic Year: 2022-2023**

**Course Book**

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| **S. No.** | **Information** | **Details** |
|  | **Course Name** | Production Management  |
|  | **Course Code** | BUA32208 |
|  | **Lecturer In-charge** | Dr. Prabhu Mannadhan |
|  | **College/Department** | Administration and Economics/Business Administration |
|  | **Contact Information** | bordauprabhu@lfu.edu.krd |
|  | **Time (in hours) per Week** | 3 Hours |
|  | **Office Hours** | Sunday 9:00-11:00, Wednesday 11.00-01.00 |
|  | **Teacher’s Academic Profile** | https://staff.lfu.edu.krd/faculty/bordauprabhu |
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 | **Academic Title** | Assistant Professor |
|  | **Keywords** | Production, Operation, Manufacturing, Mass Production and Maintenance |
|  | **Course Overview:** An organization consists mainly of four functional subsystems, viz. Finance, Personal, Production and Marketing. Productivity is the main concern of any industrial/service organization for its survival in the competitive business world, and it can be achieved in different ways. This course addresses issues and methods of productivity/operations management. It focuses on the problems that frequently confront production/operations managers in achieving this course; the students should appreciate the role of operations managers in achieving a company’s business goals. The topics discussed in this course include Types of Production System, Process Planning & Design, forecasting, Facility Location, Plant Layout & Materials Handling, Line Balancing, Aggregate Planning Methods, Work Study, Maintenance Planning & Control and Reliability.  |

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|  **12.** | **Aims & Objective:*** To understand the concepts and techniques of Production Management.
* To use the above for improving the Operational Productivity of Organisations
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|  **13.** | **Course Requirement: Core Course**Students are expected to come early to the class and bring their note books and other relevant material for learning. They are expected to adhere with the classroom etiquettes. |
| **14.** | **Teaching and Learning Method:** The module will be delivered to the students through the use modern technology, case study, reading material, flipped classroom, video and case analysis. The student-centered approach will be applied. The strategies to be implemented to target students learning outcome.  |
| **15.** | **Assessment Scheme:*** 25 % Mid-term Examination
* 15 % Assignments and Quizzes
* 60 % Final Examination
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| **16.** | **Students Learning Outcome:**By the end of the course, students should be able to:* Review the heritage of operations management and define it.
* Understand the Material Handling Systems
* Determine the purpose of product design
* Be able to use the Scheduling
* Be able to exercise Plant Layout and Materials Handling System
* Identify and explain Aggregate Planning Decisions
* Be able to use Modern Production Management Tools
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| **17.** | **Course Reading List and References**Course Reading List and References:* Joseph G. Monks: OPERATIONS MANAGEMENT – THEORY AND PROBLEMS, McGraw Hill.
* Panneerselvam, R., PRODUCTION AND OPERATIONS MANAGEMENT, Second Edition PHI Learning Pvt. Ltd., New-Delhi, 2005
* Everett E. Adam & Ronald J. Ebert: PRODUCTION AND OPERATIONS MANAGEMENT, Prentice Hall, 1994.
* William J. Stevenson: PRODUCTION/OPERATIONS MANAGEMENT, Richard Irwin.
* Norman Gaither: PRODUCTION AND OPERATIONS MANAGEMENT, The Dryden Press.
* Jack R. Meredith, THE MANAGEMENT OF OPERATION, John Wiley & Sons.
* S.N. Chary, PRODUCTION AND OPERATIONS MANAGEMENT, Tata McGraw Hill.
* Jay Heizer & Barry Render: OPERATIONS MANAGEMENT, Prentice Hall International, Inc. 2001, International Edition.
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| **18.** | **Course Content** |

**Course Content**

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| **S. No.** | **Lecture Week** | **No. of Hours** | **Topics** |
| 1. | Week 1 | 3 | Systems Concept of Production, Types of Production System, Productivity |
| 2. | Week 2 | 3 | World Class Manufacturing. Process Planning & Design. Selection of process |
| 3. | Week 3 | 3 | Value AnalysisValue Engineering |
| 4. | Week 4 | 3 | Make or Buy Decision |

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| 5. | Week 5 | 3 | Capacity PlanningForecasting |
| 6. | Week 6 | 3 | Nature and use of Forecast |
| 7. | Week 7 | 3 | Sources of data |
| 8. | Week 8 | 3 | **Mid Term Exam**  |
| 9. | Week 9 | 3 | Demand Patterns |
| 10. | Week 10 | 3 | Maintenance Planning and Control |
| 11. | Week 11 | 3 | Types of MaintenanceGroup Replacement Vs Individual Replacement |
| 12. | Week 12 | 3 | Facility LocationFactors influencing Plant Location  |
| 13. | Week 13 | 3 | Material Handling Principle |
| 14. | Week 14 | 3 | Revision |
| 15. | Week 15 | Final Examination |

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|  **19.** | **Examinations:** * **Define the terms of Production Management**
* **List the methods of analyzing**
* **Solve the problems in Production Management**
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| **20.** | **Course Policy:** * There will be many activities going on throughout the course period in order to ensure and guarantee the learning outcomes. Therefore, students are expected to pay full attention and participate in all classroom activities in order to maximize their learning and understanding.
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| **21.** | **Note:*** Seek help from the lecturer or your classmates whenever you need to.
* Time spent in learning is never wasted, however, make sure that you make it enjoyable.
* Keep a personal notebook to write down your notes in the lectures. Don’t rely on your friend’s notes as each one of you is different and has different learning approaches.
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