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| **PROGRAM** | **Master of Business Administration** |
| **SEMESTER** | **IV** |
| **COURSE TITLE** | **Lean Management** |
| **COURSE CODE** | **04MB0435** |
| **COURSE CREDITS** | **3** |
| **COURSE DURATION** | **42 hours** |

**COURSE OUTCOMES:**

* Understand the need for a Lean management System.
* Apply appropriate approaches to projects using Lean tools and techniques.
* Analyse the working concept of lean principles and implementation.
* Outline a typical Lean Model for product/service and ILLUSTRATE the linkages with Customer Issues, Logistic and Business Issues in a real- world context.
* Design and Develop a plan of Lean Management.

**COURSE CONTENTS:**

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| **Unit No** | **Unit / Sub Unit** | **Sessions** |
| **I** | **INTRODUCTION TO LEAN MANAGEMENT AND LEAN ELEMENTS:**  Introduction to seven waste and their narration; Evolution of lean; Global competition, Lean Manufacturing, Value flow and Muda, Muri and Mura, Need for LM, Meeting the stakeholders requirement, Elements of LM. | 6 |
| **II** | **LEAN TOOLS AND TECHNIQUES:**  Various tools of LM, Fundamental blocks of Lean, Impact of Seiri Seiton Seiso Seiketsu and Shitsuke, Need for TPM, Pillars of TPM, Implementation of TPM, Overall Equipment Effectiveness (OEE) and its computation. | 8 |
| **III** | **LEAN SYSTEM:**  Lean systems: Features manufacturing and services, Workflow, Small lot sizes, Pull Method, Kanban, A3 problem solving, Just In Time. | 8 |
| **IV** | **PROJECT SELECTION FOR LEAN:**  Resource and project selection, Selecting projects, Process mapping, Current and future value stream mapping, project suitable for lean initiatives. | 10 |
| **V** | **LEAN MANAGEMENT AND IMPLEMENTATION:**  Standardized work, Continuous improvement. Lean projects: Training, selecting the members, preparing project plan, implementation, review. Productivity Improvement: Process, machinery Operator and equipment. | 10 |

**EVALUATION:**

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

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|  | **Component** | **Weightage** |
| A | Continuous Evaluation Component (Assignments / Quizzes / Class Participation etc.) | 20% (C.E.C.) |
| B | Internal Assessment | 30% (I.A.) |
| C | End-Semester Examination | 50% (External Assessment) |

**SUGGESTED READINGS:**

**Text Books:**

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| **Sr. No** | **Author/s** | **Name of the Book** | **Publisher** | **Edition and Year** |
| **T-01** | Charron, R., Harrington, H. J., Voehl, F., & Wiggin, H. | The lean management systems handbook | **CRC Press** | 2014 |
| **T-02** | Ronald G.Askin and Jeffrey B.Goldberg | Design and Analysis of Lean Production Systems, | John Wiley & Sons | 2003 |
| **T-03** | Liker, J. K., & Convis, G. L | The Toyota way to lean leadership | McGraw-Hill. | 2012 |

**Reference Books:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Author/s** | **Name of the Book** | **Publisher** | **Edition and Year** |
| R-01 | Feld, W. M. | Lean manufacturing: tools, techniques, and how to use them. | **CRC Press** | 2000 |
| R-02 | Michael L. George | Lean Six Sigma | McGraw-Hill | 2002 |
| R-03 | Pascal Dennis | Lean Production Simplified | Productivity Press | 2007 |