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| **PROGRAM** | **Master of Business Administration** |
| **SEMESTER** | **IV** |
| **COURSE TITLE** | **Packing & Packaging Management** |
| **COURSE CODE** | **04MB0437** |
| **COURSE CREDITS** | **3** |
| **COURSE DURATION** | **42** |

**COURSE OUTCOMES:**

* Suggest the packaging material use and its conversion as per the product geometry.
* Gathering the knowledge of material required for the products.
* Understand the Knowledge about the Packaging Regulations.
* Analyze the difference between Packing and Packaging.
* Explaining the technologies used in Packaging.

**COURSE CONTENTS:**

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| **Unit No** | **Unit / Sub Unit** | **Sessions** |
| **I** | Introduction to Packaging, Classification of Packaging, Essential Requirements, Functions of Packaging, Importance / Significance of Pharma Packaging, Properties of Ideal Package, , Classification of Packaging materials, Approach to package design. | 8 |
| **II** | Introduction to Ancillary Materials used in Packaging, Adhesives , Paper , Paperboard, Wood, fibreboard , Packaging inserts , leaflets, Types of Cartons-Machine used in cartooning, Corrugated Box-Board construction-Machine used in manufacturing. | 8 |
| **III** | Packaging Materials Technology, Manufacture, Conversion, Properties, applications, advantages, disadvantages and current trends of following materials: Paper, paperboards, film laminates, plastics and polymers, aluminum, tin, drums, glass, textile materials (sacks), wood. | 10 |
| **IV** | Packaging Regulations ∙ Food safety and standards Act, 2006 ∙ The Legal Metrology Act, 2009 (Packaged commodity rules, 2011) ∙ UN Certificate code for packaging of dangerous goods ∙ Packaging laws and regulations – legal requirements | 10 |
| **V** | Composite & Ancillary Materials: Labels, Tags, Caps, Closures, Reinforcements, Strapping, Tapes, Holograms, Cushioning theory and Materials, Package forms & Shapes. | 6 |

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

**SUGGESTED READINGS:**

**Text Books:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Author/s** | **Name of the Book** | **Publisher** | **Edition and Year** |
| **T-01** | **Gary J Field** | Printing Production Management | **Printing Industries** | 4th Edi., 2007 |
| **T-02** | [Shrikant P. Athavale](https://www.amazon.in/s/ref=dp_byline_sr_book_1?ie=UTF8&field-author=Shrikant+P.+Athavale&search-alias=stripbooks) | Hand Book of Printing, Packaging and Lamination: Packaging Technology | Notion Press | 1st Edition, 2018 |

**Reference Books:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Author/s** | **Name of the Book** | **Publisher** | **Edition and Year** |
| R-01 | W. Soroka | Fundametals of Packaging Technology | Wiley | 3rd Edition, 2009 |
| R-02 | F. A. Paine | The Packaging User‟s Handbook | Springer | 1990 |
| R-03 | Davis, C.G., | Introduction to Packaging Machinery, | S.Chand | 2009 |