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| **PROGRAM** | **Master of Business Administration** |
| **SEMESTER**  | **IV** |
| **COURSE TITLE** | **Application of Cloud Management** |
| **COURSE CODE** | **04MB0431** |
| **COURSE CREDITS** | **03** |
| **COURSE DURATION** | **42 Hrs (42 sessions of 60 minutes each)** |

**COURSE OUTCOMES:**

* Understand the management of cloud services
* Develop and implement cloud IT model
* Examining the Cloud Computing Fundamentals.
* Analyse how Cloud Platform using in Computer Network
* Reviewing the consciousness about cloud Services.

**COURSE CONTENTS:**

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| **Unit No** | **Unit / Sub Unit** | **Sessions** |
| **I** | **Introduction to Cloud Technologies**: Introduction to the Cloud Computing, History of cloud computing, Cloud service options, Cloud Deployment models, Business concerns in the cloud. | 06 |
| **II** | **Virtualization and Cloud Platforms**: Exploring virtualization, Load balancing, Hypervisors, Machine imaging, Cloud marketplace overview, Comparison of Cloud providers. | 08 |
| **III** | **Management of Cloud Service:** Reliability, availability and security of services deployed from the cloud. Performance and scalability of services, tools and technologies used to manage cloud services deployment; Cloud Economics:  | 10 |
| **IV** | **Cloud IT Model:** Analysis of Case Studies when deciding to adopt cloud computing architecture. How to decide if the cloud is right for your requirements. Cloud based service, applications and development platform deployment so as to improve the total cost of ownership (TCO).. | 12 |
| **V** | Cloud Computing infrastructures available for implementing cloud-based services. Economics of choosing a Cloud platform for an organization, based on application requirements, economic constraints and business needs (e.g Amazon, Microsoft and Google, Salesforce.com, Ubuntu and Redhat) | 06 |

**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:**

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| **Sr. No** | **Author/s** | **Name of the Book**  | **Publisher** | **Edition & Year**  |
| T1 | Toby Velte, Anthony Velte, Robert Elsenpeter | “Cloud Computing, A Practical Approach” | McGraw-Hill Osborne Media | 1 edition 2009. |
| T2 | Thomas Erl | Cloud Computing Design Patterns | Prentice Hall | 2012 |

**Reference Books:**

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| **Sr. No** | **Author/s** | **Name of the Book**  | **Publisher** | **Edition and Year**  |
| R-01 | Rajkumar Buyya | Cloud Computing: Principles and Paradigms | John Wiley & Sons | 2016 |
| R-02 | Dimitris N. Chorafas | Cloud Computing Strategies | CRC Press | 1 edition 2010. |
| R-03 | Gautam Shroff | Enterprise Cloud Computing Technology Architecture Applications” | Cambridge University Press | 1 edition, 2010 |