**PG Program - Business Analytics & Business Intelligence**

**Program Schedule**

**Statistical Methods for Decision Making (SMDM)**

# Course Overview:

Organizations are surrounded with numerical data and information. All of us in day-to-day routine use numbers in our calculations. Problems in business contain a great degree of a quantitative element in the form of facts and figures. It is essential for professionals to carry out data analysis and interpretation for effective decisions. In this context, they need to prepare quantitative arguments to justify their decisions. Decision making using statistical methods is the answer for accomplishing this purpose. Statistical Methods for Decision Making focuses on the role of Business Statistics in helping organizations take effective decisions with minimum risk.

# Week 1: Statistical Methods for Decision Making

**Mentor Session Duration:** 2 hours/session

**Faculty Name:** Dr. P.K.Viswanathan, Great Lakes Institute of Management, Chennai Areas: Analytics & Operation

# No. of videos: 4

**Total Duration of videos: 1.84 hrs.**

**Pre-requisite**: Please install R before the Mentor learning session

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| **Video No.** | **Video Name** | **Duration of the video** | **Topics Covered** | **Conceptual or Hands-On** |
| 1 | Paste link - [Overview of the Course](https://olympus.greatlearning.in/courses/3337/modules/items/137123) | 1 video | Different Types of Analytics | Conceptual |
| 2 | Paste Link - [Measures of Central Tendency](https://olympus.greatlearning.in/courses/3337/modules/items/137124) | 29:36 | Understanding Arithmetic Mean, Median and Mode | Conceptual |
| 3 | Paste Link -[Measures of Dispersion](https://olympus.greatlearning.in/courses/3337/modules/items/137125) | 26:07 | Measures of Dispersion | Conceptual |
| 4 | Paste Link - [Working with R - Part 1](https://olympus.greatlearning.in/courses/3337/modules/items/137126) | 26:53 | Working with R | Hands - On |
| 5 | Paste Link - [Working with R - Part 2](https://olympus.greatlearning.in/courses/3337/modules/items/137127) | 28:14 | Working with R | Hands - On |

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| **Practice Material for learners** | 1. Paste Link(Lungcap Data Problem Statement.docx) 2. Paste Link( Lung Capacity Dataset.xls) 3. Paste Link(Lung\_Capacity\_Code.R) 4. Paste Link (Lung Capacity Analysis Report.pdf) |

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| **Practice Material to be downloaded before the mentoring session** | 1. Paste Link [Uber\_Dataset\_Description & Questions](https://olympus.greatlearning.in/courses/6935/files/384703?module_item_id=217483) 2. Paste Link [Uber code.R](https://olympus.greatlearning.in/courses/6935/files/384656?module_item_id=217484) 3. Paste Link [Uber Dataset.csv](https://olympus.greatlearning.in/courses/6935/files/384676?module_item_id=217485) 4. Paste Link [Uber\_Data\_Analysis](https://olympus.greatlearning.in/courses/6935/files/384661?module_item_id=217486) |

All the Best for the upcoming learning.