Data Analytics

COURSE INTRO

2nd Sem, MCA

Dept. of Data Science & Computer Applications

COURSE DETAILS

Subject Code:	MCA 4251
Credit:	4
Lecture Hours:	48
Lab/Tutorial Hours:	0
Contacts hours per week:	04
No. of Contact Weeks:	12
Self Study Hours:	72
Teaching Staff:	**Mr. SSS Shameem**

Assistant Professor, Dept. of Data Science & Computer Applications, MIT

LECTURER INFO

SSS Shameem

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Current

Assistant Professor **(2021 onwards)**

Dept. of Data Science & Computer Applications (DSCA),
Manipal Institute of Technology (MIT),
Manipal Academy of Higher Education (MAHE), INDIA.

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Earlier

Assistant Professor **(2017 – 2021)**

Dept. of Computer Engineering & Computer Sciences,
School of Science & Engineering (SoSE),
Manipal International University (MIU), Malaysia.

Assistant Professor **(2011 - 2017)**

Dept. of Computer Applications,
Manipal Institute of Technology,
MAHE, INDIA.

Assistant Software Developer **(2011)**

Huawei Technologies Pvt. Ltd.,
Bangalore, INDIA.

Area of Expertise: **Data Science, Artificial Intelligence, Big Data, Cloud Computing, Software Testing, S/W Engineering & Programming Languages.**

COURSE OBJECTIVES

At end of this course, Student should be able to:

- Provide an overview of data analytics in various contexts.
- Explore, analyse, interpret and visualize data.
- Understand and perform correlation, inference analysis.
- Understand and implement grouping methods.
- Understand and implement Predictive Analytics.

COURSE CONTENT

- Introduction to Data Analysis & Visualization,
- Descriptive Statistics,
- Data Preparation,
- Data Analysis, Grouping & Clustering,
- Predictive Analytics,
- Evaluation & Analysis.

COURSE REFERENCES

- *Glenn J. Myatt, Wayne P. Johnson,* **Making Sense of Data I: A Practical Guide to Exploratory Data Analysis and Data Mining,** 2nd Edition, **John Wiley & Sons Publication,** 2014.
- *Glenn J. Myatt, Wayne P. Johnson,* **Making Sense of Data II: A Practical Guide to Data Visualization, Advanced Data Mining Methods, and Applications, John Wiley & Sons Publication,** 2009.
- *Pang-Ning Tan, Michael Steinbach, Vipin Kumar,* **Introduction to Data Mining, Pearson Education,** 2nd Edition.
- *Jiawei Han and Micheline Kamber,* **Data Mining Concepts And Techniques,** 3rd Edition, **Morgan Kauffmann.**
- *Galit Shmueli, Nitin R. Patel, and Peter C. Bruce,* **Data Mining for Business Intelligence, John Wiley and Sons,** 2014.
- *Ian H. Witten, Eibe Frank, Mark A. Hall,* **Data Mining: Practical Machine Learning Tools and Techniques, Morgan Kaufmann,** 2011.

COURSEWORK (TENTATIVE)

Coursework Components	Total Marks
Mid Term Test	30
Assignments	20
LAB	-
End Sem Exam	50
Total	100

LET'S START