

## Certificate Course in Data Analytics for M.Sc.

### Objective

The primary objective of this certificate course is to equip students with the knowledge and skills necessary to analyze and interpret complex data sets, allowing them to make informed decisions and contribute to the advancement of their respective fields.

**Eligibility:** This certificate course in Data Analytics (additional 9 credits) will be given to those students who are pursuing M.Sc in Mathematics, Physics, Economics, Microbiology and Environmental Biotechnology from IIIT.

**Prerequisite:** Proficiency in mathematics, including calculus, linear algebra, and probability/statistics, is essential. Some special lectures may be provided before 3<sup>rd</sup> semester to those students who don't have exposure of linear algebra and calculus, so that they can understand the subjects required for certificate course.

### Certificate Course Overview

The Data Analytics certificate course comprises 9 credits of coursework, focusing on both theoretical foundations and practical applications. The courses are designed to cover essential aspects of data analytics, including data handling & visualization, data inference and ethical considerations in data usage.

### **Certificate Course Structure (9 Credits):**

S. No.	Course Code	Course Title	Semester	Contact Hours				Credit
				L	T	P	Total	
1	24M22MA112	Techniques of Data Handling and Visualization	2nd	3	-	-	3	3
2	24M22MA212	Regression Models for Data Inference and Prediction	3rd	3	-	-	3	3
3	xxxxxxx	Pattern Recognition Models for Learning from Data	4th	3	-	-	3	3
		<b>Total</b>		<b>9</b>	<b>-</b>	<b>-</b>	<b>9</b>	<b>9</b>