

Mathematical Foundations of Analytics - JSPD328

Faculty	Prof. Sayan Chowdhury
Co – Faculty	Prof. Madhuri Prabhala

Credit – 3

Course workload

Contact Hours	Suggested Equivalent Coursera Course Hrs	Directed Learning Hours	Total Hours
30	15	45	90

Learning Outcomes for the Course

1. Understand the foundational mathematical concepts used in Analytics.
2. Create a robust theoretical understanding required for higher level Analytics courses.
3. Recognize how the theoretical concepts are applicable in real-world problems.

Topics Covered

- Set Theory
- Relations and Functions
- Limits and Continuity
- Differentiation and Its Applications
- Integrals and Its Applications
- Linear algebra
- Matrices and Matrix Inversion
- Vector Spaces
- Determinants
- Eigen values and eigen vectors

*For additional details, visit : <https://jagsom.edu.in/careertrack/>
Meet our faculty: <https://jagsom.edu.in/faculty-directory/>*