MAT5010	Foundations of Data science	L	T	P	J	C				
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Pre-requisite	NIL	:	Syllabus version							
			1.0							
Course Objectives:										
The course is aimed at										
1. Building the fundamentals of data science.										

- 2. Imparting design thinking capability to build big-data
- 3. Developing design skills of models for big data problems
- 4. Gaining practical experience in programming tools for data sciences
- 5. Empowering students with tools and techniques used in data science

Expected Course Outcome:

At the end of the course the student should be able to:

- 1. Apply data visualisation in big-data analytics
- 2. Utilise EDA, inference and regression techniques
- 6. Utilize Matrix decomposition techniques to perform data analysis
- 7. Apply data preprocessing techniques
- 8. Apply Basic Machine Learning Algorithms

Big Data Analytics, paperback 2nd ed., Seema Acharya, Subhasini Chellappan, Wiley (2019).

Doing Data Science, Straight Talk From The Frontline, Cathy O'Neil and Rachel Schutt,

Reference Books

	O'Reilly (2014).							
2	Data Mining: Concepts and Techniques", Third Edition, Jiawei Han, Micheline Kamber							
	and Jian Pei, ISBN 0123814790,(2011).							
3	Big Data and Business Analytics, Jay Liebowitz, CRC press (2013)							
Mode of Evaluation: CAT / Assignment / Quiz / FAT / Project / Seminar								
Recommended by Board of Studies		24-06-2020						
Approved by Academic Council		No. 59	Date	24-09-2020				