

Diploma in Predictive Data Analytics

October 2021

Tuesdays - 6:15pm to 9:30pm

Month	Day	Content
October	05	Week 1 - Introduction to Data Analytics / Introduction to Data Analytics (Descriptive, Diagnostic, Prescriptive, Predictive) / The role of Data Analytics in modern business / Introduction to Data Import using Power BI / Introducing to Data Cleansing using Power BI / Introduction to Data Visualisation using Power BI
	12	Week 2 - Introduction to Relational Data Structures using SQL / Introduction to relational data structures / Introduction to SQL - Session 1 / Working with SELECT queries / Working with WHERE clause / Working with SQL DATES
	19	Week 3 - Working with SQL queries / Introduction to SQL - Session 2 / Working with inner JOINS / Working with OUTER JOINS / Working with SQL Strings and Text manipulation
November	26	Week 4 - Introduction to Python Programming - Session 2 / How to retrieve data and inspect it with Python
	02	Week 5 - Introduction to RapidMiner - Session 1 / Exploring the RapidMiner Studio / Overview of the Features of Rapidminer / How to retrieve data and inspect it with Operators and Processes / Basic data cleansing through Filtering and Sorting / Python Programming - Session 3
	09	Week 6 - Introduction to RapidMiner - Session 2 / Using RapidMiner - Session 2 / Working with Naive Bayes Models / Basic data preparation - Merging, Grouping, Labelling, Column Types / Working with missing values
	16	Week 7 - Working with RapidMiner and Python / Using RapidMiner - Session 3 / Working with Correlation – RapidMiner / Working with Correlation – Python / Validating your models in RapidMiner
	23	Week 8 - Working with Python / Python Programming - Session 4 / Extracting data from urls, css files, json files
Dec	30	Week 9 - Python Programming and Assignment Introduction / Python Programming - Session 5 / Course Assignment - Discussion 1
	07	Week 10 - Python Programming and Assignment Preparation / Text Processing (Sentiment Analysis) with RapidMiner / Course Assignment – Discussion 2
	14	Week 11 - Course Wrap-up / Course Assignment - Final Discussion - Class Q&A

****Please note this is a provisional timetable and subject to change.***

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