

Data Analytics & Management

Part Time

Session No#	Session mode	Session Type	Week - Day No. #	DurationHrs
1	EL-Async	IU 01: Introduction to Data Analytics and Power BI. <ul style="list-style-type: none"> • Introduction to Data Analytics • Roles in Data • Power BI Essentials • Overview Power BI Features • Get data from files. • Get data from NoSQL databases. • Get data from online services. Complete MCQ	Before Sync Session	3
2	FC -Sync	IU 01: Introduction to Data Analytics and Power BI. Introduction to Data Analytics, Data connections in Power BI Explain assignments 1a and 1b	1-1	3
3	AS -Sync	Assignment 1a: Explore fundamentals of data visualisation with Power BI. Assignment 1b: Get Data in Power BI Desktop.	1-2	3
4	EL-Async	IU 02: Power BI Data Transformation. <ul style="list-style-type: none"> • Clean, transform, and load data • Change data types and remove null values IU 03: Power BI Data Modelling. <ul style="list-style-type: none"> • Model data • Star schema design • Fact and Dimension Tables Complete MCQ	Before Sync Session	3
5	FC- Sync	IU 02: Power BI Data Transformation. Explanation and demonstration of data transformations in Power BI IU 03: Power BI Data Modelling. Explanation and demonstration of data modelling in Power BI Explain assignments 2a and 2b	1-3	3
6	AS -Sync	Assignment 2a: Load Transformed Data in Power BI Desktop Assignment 2b: Design a Data Model in Power BI	2-4	3

7	EL-Async	<p>IU 04: Power BI Reports and Dashboards.</p> <ul style="list-style-type: none"> • Data Visualizations • Tables and matrix visualization in Power BI reports • Card visualizations. Data slicers and filters. • Dashboard Interactions, Drill down, Conditional formatting, and featured dashboards <p>Complete MCQ</p>	Before Sync Session	3
8	FC- Sync	<p>IU 04: Power BI Reports and Dashboards.</p> <p>Explanation and demonstration of how to create Power BI reports and visualizations.</p> <p>Explain assignments 4a and 4b</p>	2-5	3
9	AS -Sync	<p>Assignment – 3a: Design a Report in Power BI Desktop.</p> <p>Assignment – 3b: Enhance a Report in Power BI Desktop.</p>	2-6	3
10	EL-Async	<p>IU 05: Introduction to Microsoft Dataverse.</p> <ul style="list-style-type: none"> • Introduction to Microsoft Dataverse • Table characteristics • Table relationships • Connect the Dataverse table to Power BI 	Before Sync Session	3
11	FC -Sync	<p>IU 05: Introduction to Microsoft Dataverse.</p> <p>Explanation and demonstration of how to create Dataverse table and connect with Power BI.</p>	3-7	3
12	AS -Sync	<p>Assignment 4: Create tables, import data, and establish relationships within a Microsoft Dataverse database.</p>	3-8	3
13	PM-Sync	<p>Project Mentoring – Explain the below task</p> <p>Transform and clean data using Power BI for analysis.</p>	3-9	3
14	PI-Async	<p>Complete project task 1</p>	Before Sync Session	3
15	PM-Sync	<p>Project Mentoring – Explain the below tasks</p> <p>Data modelling of the HR attrition dataset</p>	4-10	3
16	PI-Async	<p>Complete project task 2</p>	Before Sync Session	3
17		<p>Project Mentoring – Explain the below tasks</p>	4-11	3

	PM-Sync	Visualizations for the overview and demographics page		
18	PI-Async	Complete project task 3	Before Sync Session	3
19	PM-Sync	Project Mentoring – Explain the below tasks Visualizations for performance tracker and attrition pages.	4-12	3
20	PI-Async	Complete project task 4 Prepare Project Report and submit	Before assessment	3
21	SA-Sync	Summative Assessment (Per learner)	5-13	30 min

Full Time

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1	EL-Async	IU 01: Introduction to Data Analytics and Power BI. <ul style="list-style-type: none"> • Introduction to Data Analytics • Roles in Data • Power BI Essentials • Overview Power BI Features • Get data from files. • Get data from NoSQL databases. • Get data from online services. Complete MCQ	1-1	3
2	FC -Sync	IU 01: Introduction to Data Analytics and Power BI. Introduction to Data Analytics, Data connections in Power BI Explain assignments 1a and 1b	1-2	3
3	AS -Sync	Assignment 1a: Explore fundamentals of data visualisation with Power BI. Assignment 1b: Get Data in Power BI Desktop.	1-3	3
4	EL-Async	IU 02: Power BI Data Transformation. <ul style="list-style-type: none"> • Clean, transform, and load data • Change data types and remove null values IU 03: Power BI Data Modelling. <ul style="list-style-type: none"> • Model data • Star schema design 	1-4	3

		<ul style="list-style-type: none"> • Fact and Dimension Tables Complete MCQ		
5	FC- Sync	IU 02: Power BI Data Transformation. Explanation and demonstration of data transformations in Power BI IU 03: Power BI Data Modelling. Explanation and demonstration of data modelling in Power BI Explain assignments 2a and 2b	1-5	3
6	AS -Sync	Assignment 2a: Load Transformed Data in Power BI Desktop Assignment 2b: Design a Data Model in Power BI	2-6	3
7	EL-Async	IU 04: Power BI Reports and Dashboards. <ul style="list-style-type: none"> • Data Visualizations • Tables and matrix visualization in Power BI reports • Card visualizations. Data slicers and filters. • Dashboard Interactions, Drill down, Conditional formatting, and featured dashboards Complete MCQ	2-7	3
8	FC- Sync	IU 04: Power BI Reports and Dashboards. Explanation and demonstration of how to create Power BI reports and visualizations. Explain assignments 4a and 4b	2-8	3
9	AS -Sync	Assignment – 3a: Design a Report in Power BI Desktop. Assignment – 3b: Enhance a Report in Power BI Desktop.	2-9	3
10	EL-Async	IU 05: Introduction to Microsoft Dataverse. <ul style="list-style-type: none"> • Introduction to Microsoft Dataverse • Table characteristics • Table relationships • Connect the Dataverse table to Power BI 	2-10	3
11	FC -Sync	IU 05: Introduction to Microsoft Dataverse. Explanation and demonstration of how to create Dataverse table and connect with Power BI.	3-11	3
12	AS -Sync	Assignment 4: Create tables, import data, and establish relationships within a Microsoft Dataverse database.	3-12	3

13	PM-Sync	Project Mentoring – Explain the below task Transform and clean data using Power BI for analysis.	3-13	3
14	PI-Async	Complete project task 1	3-14	3
15	PM-Sync	Project Mentoring – Explain the below tasks Data modelling of the HR attrition dataset	3-15	3
16	PI-Async	Complete project task 2	4-16	3
17	PM-Sync	Project Mentoring – Explain the below tasks Visualizations for the overview and demographics page	4-17	3
18	PI-Async	Complete project task 3	4-18	3
19	PM-Sync	Project Mentoring – Explain the below tasks Visualizations for performance tracker and attrition pages.	4-19	3
20	PI-Async	Complete project task 4 Prepare Project Report and submit	4-20	3
21	SA-Sync	Summative Assessment (Per learner)	5-21	30 min

EL-E-Learning

FC-Flipped Class

AS-Assignment

PM-Project Mentoring

PI-Project Implementation

AP-Additional Practice

SA-Summative Assessment

Sync- Synchronous Session

Async- Asynchronous Session