

## Data Analytics

Session No#	Session mode	Session Details	Week-Day	Duration Hrs
1	Adaptive Knowledge KN-Async	<p><b>IU 1: Introduction to Data Analytics and Power BI Interface</b></p> <p><b>1. Instructional contents – Videos and Podcast</b></p> <ul style="list-style-type: none"> <li>• Core Data concepts and Relational Database Fundamentals</li> <li>• Introduction to Data Analytics and Power BI</li> <li>• Power BI data connections and data types</li> </ul> <p><b>2. Instructional contents (text) - Supplementary</b></p> <ul style="list-style-type: none"> <li>• Core Data Concepts</li> <li>• Relational Database Fundamentals</li> <li>• Introduction to Data Analytics</li> <li>• Familiarization with the Power BI Interface</li> <li>• Power BI data connections and data types</li> </ul> <p><b>3. Instructional contents curated from third party (eLearning videos/articles)</b></p> <p><b>Videos</b></p> <ul style="list-style-type: none"> <li>• Core data concepts</li> <li>• Key concepts: Data</li> <li>• What is a relational database?</li> <li>• Relational database concepts</li> <li>• The four types of data analytics</li> <li>• Introduction to data analysis</li> <li>• Navigate the Power BI interface</li> <li>• Explore the Power BI interface</li> <li>• Power BI data sources</li> <li>• Connect to multiple data sources in Power BI</li> </ul> <p><b>Reading - Supplementary</b></p> <ul style="list-style-type: none"> <li>• Microsoft Azure Data Fundamentals - Core Data Concepts</li> <li>• An Introduction to Relational Database Theory</li> <li>• Data Analytics Basics: A Beginner's Guide</li> <li>• Power BI for Beginners - Data Action Lab</li> <li>• Introduction to Power BI</li> </ul> <ul style="list-style-type: none"> <li>• Learners are required to complete all e-content to develop a strong understanding of the concepts.</li> <li>• If clarification is required, learners should seek assistance from the AI Mentor.</li> <li>• Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support.</li> </ul>	Week 1 - Before next Sync session	3

		<ul style="list-style-type: none"> <li>Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing.</li> <li>Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved.</li> </ul>		
2	Adaptive Knowledge KN-Sync	<p><b>IU 1: Introduction to Data Analytics and Power BI Interface</b></p> <p><b>Concept and Demo</b></p> <ul style="list-style-type: none"> <li>Introduction to Data Analytics and Power BI Interface</li> </ul> <p><b>Case Study</b></p> <ol style="list-style-type: none"> <li>Data Discovery: Navigating and Exploring the Adventure Works Sales Landscape</li> <li>EDUCLaaS Case study - EDUCLaaS Sales Growth Case Study: Data types and connections</li> </ol> <p><b>Assignment 1</b></p> <ul style="list-style-type: none"> <li><b>Introduction to Data Analytics and Power BI</b></li> </ul> <ul style="list-style-type: none"> <li>This session will be delivered either as a live synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend.</li> <li>During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts.</li> <li>An overview of the assignment will be provided, outlining the requirements that learners are expected to complete.</li> <li>This is a mandatory session, and attendance is required to meet the 75% attendance criteria.</li> </ul>	1-1	3
3	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> <li>Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the assignments.</li> <li><b>Assignment 01: Introduction to Data Analytics and Power BI</b></li> <li>If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support.</li> <li>After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved.</li> </ul>	Week 1- Before next Sync Session	3
		<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul>		

4	Adaptive Mentoring Support MS-Sync (M)	<p>The mentor will review <b>During this session:</b></p> <ul style="list-style-type: none"> <li>• questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>• The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>• The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>• Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	1-2	3
5	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> <li>• This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul> <p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>• The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>• The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>• The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>• Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	1-3	3
6	Adaptive Knowledge KN-Async	<p><b>IU2: Data Cleaning, Transformation and Preprocessing</b></p> <p><b>1. Instructional contents - Videos and Podcast</b></p> <ul style="list-style-type: none"> <li>• Data Cleaning, Transformation and Preprocessing</li> <li>• Podcast: Data Cleaning and Transformation</li> </ul> <p><b>2. Instructional Contents (Text) - Supplementary</b></p> <ul style="list-style-type: none"> <li>• Data Cleaning and Preprocessing</li> <li>• Data Transformation with Power BI</li> </ul> <p><b>3. Instructional content curated from third party (eLearning videos/articles)</b></p> <p><b>Videos</b></p> <ul style="list-style-type: none"> <li>• Data cleaning and preprocessing</li> <li>• What is data cleaning?</li> <li>• Questions to guide data cleaning</li> <li>• Cleaning and preprocessing data with ChatGPT for analysis</li> <li>• Data preprocessing</li> <li>• Cleaning data with Power Query</li> </ul>	Week 1 - Before next Sync session	3

		<ul style="list-style-type: none"> <li>Modeling data in Power Query</li> <li>Transforming data in Excel with Power Query</li> <li>Basic Power Query table transformations</li> <li>Convert data in Power Query</li> </ul> <p><b>Reading - Supplementary</b></p> <ul style="list-style-type: none"> <li>Data Preprocessing and Transformation - Big Data Analytics</li> <li>Data Preprocessing</li> <li>Data Cleaning and Data Preprocessing</li> <li>Clean, Transform, and Load Data in Power BI</li> <li>Query Overview in Power BI Desktop</li> </ul> <ul style="list-style-type: none"> <li>If clarification is required, learners should seek assistance from the AI Mentor.</li> <li>Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support.</li> <li>Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing.</li> <li>Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved.</li> </ul>		
7	Adaptive Knowledge KN-Sync	<p><b>IU2: Data Cleaning, Transformation and Preprocessing Concept and Demo</b></p> <ul style="list-style-type: none"> <li>Data Cleaning, Transformation and Preprocessing</li> </ul> <p><b>Case Study</b></p> <ol style="list-style-type: none"> <li>Data Transformation &amp; Preparation: Cleaning and Transforming Raw Adventure Works Data into Analytical Assets</li> <li>EDUCLaaS Sales Growth Case Study: Data Transformation with Power BI</li> </ol> <p><b>Assignment 2</b></p> <ul style="list-style-type: none"> <li><b>Power BI Data Transformation</b></li> </ul> <p>This session will be delivered either as a synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend.</p> <p>During this session, the instructor will explain the case study to reinforce the learners' understanding of the concepts.</p> <p>An overview of Assignment will also be provided, outlining the requirements that learners are expected to complete.</p>	1-4	3

		This is a mandatory session, and attendance is required to meet the 75% attendance criteria.		
8	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> <li>Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the assignments. <ul style="list-style-type: none"> <li><b>Assignment 02: Power BI Data Transformation</b></li> </ul> </li> <li>If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support.</li> <li>After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved.</li> </ul>	Week 1- Before next Sync Session	3
9	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul> <p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	1-5	3
10	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul> <p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> <li></li> </ul>	2-6	3
		<p><b>IU3: Data Modelling and Relationships</b></p> <p><b>1. Instructional contents – Videos and Podcast</b></p> <ul style="list-style-type: none"> <li>Semantic Data Modelling and Relationships</li> </ul>		

11	Adaptive Knowledge KN-Async	<ul style="list-style-type: none"> <li>• Know-How: Semantic Data Modelling with Power BI</li> <li>• Podcast - Data Modelling and Relationships</li> </ul> <p><b>2. Instructional contents (text) - Supplementary</b></p> <ul style="list-style-type: none"> <li>• Introduction to Semantic Data Modelling</li> <li>• Semantic Data Modelling and Relationships in Power BI</li> </ul> <p><b>3. Instructional contents curation from third party (eLearning videos/articles)</b></p> <p><b><u>Videos</u></b></p> <ul style="list-style-type: none"> <li>• Data modeling: The basics</li> <li>• Understanding the semantic model</li> <li>• Identify and connect to data sources or a shared semantic model</li> <li>• Share a semantic model</li> <li>• Model and visualize your data with Power BI Desktop</li> <li>• Modeling data for Power BI</li> <li>• Understanding data modeling</li> <li>• Setting up the Power BI model</li> <li>• Overview: Power BI concepts</li> </ul> <p><b><u>Reading - Supplementary</u></b></p> <ul style="list-style-type: none"> <li>• Semantic Modeling Guidelines Version 2.0</li> <li>• A Data Engineer's Guide to Semantic Modelling</li> <li>• Create and Manage Relationships in Power BI Desktop.</li> <li>• Model Relationships in Power BI Desktop</li> <li>• Best Practice Rules to Improve Your Model's Performance</li> </ul> <p><b>IU4: Introduction to DAX (Data Analysis Expressions)</b></p> <p><b>1. Instructional contents – Videos and Podcast</b></p> <ul style="list-style-type: none"> <li>• Introduction to DAX</li> <li>• Data Modelling with DAX</li> <li>• Podcast: Introduction to DAX</li> </ul> <p><b>2. Instructional contents (text) - Supplementary</b></p> <ul style="list-style-type: none"> <li>• Data Modelling with DAX</li> <li>• Introduction to DAX</li> <li>• Write DAX formulas for semantic models- operators, variables, calculated tables, and measures</li> </ul> <p><b>3. Instructional contents curation from third party (eLearning videos/articles)</b></p> <p><b><u>Videos</u></b></p> <ul style="list-style-type: none"> <li>• Understand DAX</li> </ul>	Week 2 - Before next Sync session	3
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		<ul style="list-style-type: none"> <li>• Create basic DAX expressions</li> <li>• Understand DAX syntax</li> <li>• DATE, YEAR, MONTH, and DAY date DAX functions</li> <li>• CALENDAR and CALENDARAUTO DAX Functions</li> <li>• Create a measure with SUM</li> <li>• Create a measure with COUNT and COUNTROWS</li> <li>• Create a measure with operators</li> <li>• Understand explicit versus implicit measures</li> <li>• Basic DAX date and time functions</li> <li>• Compare totals with SAMEPERIODLASTYEAR</li> <li>• Iterators and row context: SUMX</li> </ul> <p><b>Reading - Supplementary</b></p> <ul style="list-style-type: none"> <li>• DAX overview</li> <li>• QuickStart: Learn DAX Basics in 30 Minutes</li> <li>• DAX Guide</li> <li>• Learn DAX basics in Power BI Desktop</li> <li>• DAX Patterns</li> </ul> <ul style="list-style-type: none"> <li>• Learners are required to complete all e-content to develop a strong understanding of the concepts.</li> <li>• If clarification is required, learners should seek assistance from the AI Mentor.</li> <li>• Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support.</li> <li>• Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing.</li> <li>• Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved.</li> </ul>		
12	Adaptive Knowledge KN-Sync	<p><b>IU3: Data Modelling and Relationships</b></p> <p><b>Concept and Demo</b></p> <ul style="list-style-type: none"> <li>• Data Modelling and Relationships</li> </ul> <p><b>Case Study</b></p> <ol style="list-style-type: none"> <li>1. Semantic Data Modelling: Architecting a Semantic Model for Scalable Sales Insights from AdventureWorks Data.</li> <li>2. EDUCLaaS Sales Growth Case Study: Data Modelling with Power BI</li> </ol> <p><b>IU4: Introduction to DAX (Data Analysis Expressions)</b></p> <p><b>Concept and Demo</b></p> <ul style="list-style-type: none"> <li>• Introduction to DAX (Data Analysis Expressions)</li> </ul> <p><b>Case Study</b></p>	2-7	3

		<p>1. Advanced Analytics: Unlocking Sales Trends Using DAX Calculations and Time Intelligence with AdventureWorks Data.</p> <p><b>Assignments 3</b></p> <ul style="list-style-type: none"> <li><b>Data Modeling in Power BI Service</b></li> </ul> <p>This session will be delivered either as a synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend.</p> <p>During this session, the instructor will explain the case study to reinforce the learners' understanding of the concepts.</p> <p>An overview of Assignment will also be provided, outlining the requirements that learners are expected to complete.</p> <p>This is a mandatory session, and attendance is required to meet the 75% attendance criteria.</p>		
13	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> <li>Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the assignments.</li> <li><b>Assignment 03: Data Modelling in Power BI Service</b></li> <li>If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support.</li> <li>After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved.</li> </ul>	Week 1-3 Before next Sync Session	
14	Adaptive Mentoring Support MS -Sync (M)	<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul> <p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	2-8	3
		<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul>		

15	Adaptive Mentoring Support MS-Sync (M)	<p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	2-9	3
16	Adaptive Knowledge KN-Async	<p><b>IU5: Advanced Visualization Techniques and Dashboard Design.</b></p> <p><b>1. Instructional contents - Videos and Podcast</b></p> <ul style="list-style-type: none"> <li>PPT Video: Advanced Visualization and Dashboard Design</li> <li>Know How: Power BI Formatting, Reports and Dashboards</li> <li>Podcast: Advanced Visualization and Dashboard Design</li> </ul> <p><b>2. Instructional contents (text) - Supplementary</b></p> <ul style="list-style-type: none"> <li>Power BI Formatting, Reports and Dashboards</li> <li>Instructional Content(text) - Advanced Visualisation and Dashboard Design</li> </ul> <p><b>3. Instructional contents curation from third party (eLearning videos/articles)</b></p> <p><b>Videos</b></p> <ul style="list-style-type: none"> <li>Navigate a Power BI report in Desktop</li> <li>Navigate the format and analysis panes</li> <li>Mastering bar charts in Power BI</li> <li>Drilling down line charts with date hierarchies</li> <li>Display single numbers with KPIs, new card visuals, and gauges</li> <li>Showcase proportion data with pies and treemaps</li> <li>Visualize distribution data with histograms and scatterplots</li> <li>Use maps and choropleths with confidence</li> <li>Compare table and matrix visuals</li> <li>Use custom visuals to solve unmet requirements</li> <li>Using new and old slicers to filter your visuals</li> <li>Learn how visuals filter each other by default and by design</li> <li>Understand dashboard design principles</li> <li>How to lay out your report page for maximum effect</li> </ul> <p><b>Reading - Supplementary</b></p>	Week 2 - Before next Sync session	3

		<ul style="list-style-type: none"> <li>• Bar Charts in Power BI</li> <li>• Using scatterplots to find details in reports</li> <li>• Power BI Table vs Matrix: Which One Works Best</li> <li>• Power BI Slicer Tutorial: A Comprehensive Guide</li> <li>• Design Principles for Power BI Dashboards</li> </ul> <ul style="list-style-type: none"> <li>• Learners are required to complete all e-content to develop a strong understanding of the concepts.</li> <li>• If clarification is required, learners should seek assistance from the AI Mentor.</li> <li>• Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support.</li> <li>• Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing.</li> <li>• Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved.</li> <li>•</li> </ul>		
17	Adaptive Knowledge KN-Sync	<p><b>IU5: Advanced Visualization Techniques and Dashboard Design</b></p> <p><b>Concept and Demo</b></p> <ul style="list-style-type: none"> <li>• Advanced Visualization Techniques and Dashboard Design</li> </ul> <p><b>Case Study</b></p> <ol style="list-style-type: none"> <li>1. Data Discovery: Navigating and Exploring the Adventure Works Sales Landscape</li> <li>2. EDUCLaaS Case study - EDUCLaaS Sales Growth Case Study: Data types and connections The instructor will explain the case study to reinforce learners' understanding of the concepts.</li> </ol> <p><b>Assignment 4</b></p> <ul style="list-style-type: none"> <li>• <b>Power BI Reports and Dashboards</b></li> </ul> <p>This session will be delivered either as a synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend.</p> <p>During this session, the instructor will explain the case study to reinforce the learners' understanding of the concepts.</p> <p>An overview of Assignment will also be provided, outlining the requirements that learners are expected to complete.</p> <p>This is a mandatory session, and attendance is required to meet the 75% attendance criteria.</p>	2-10	3

18	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> <li>Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the assignments. <ul style="list-style-type: none"> <li><b>Assignment 04: Power BI Reports and Dashboards</b></li> </ul> </li> <li>If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support.</li> <li>After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved.</li> </ul>	Week 3- Before next Sync Session	3
19	Adaptive Mentoring Support MS -Sync (M)	<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification.</li> </ul> <p><b>During this session:</b></p> <ul style="list-style-type: none"> <li>The mentor will review questions posted by learners and the corresponding responses from peers related to the assignments.</li> <li>The mentor will address queries from attending learners across all subjects within the qualification.</li> <li>The objective of this session is to ensure that learners complete all pending assignments within the stipulated deadlines and score minimum 70% in each assignment</li> <li>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</li> </ul>	3-11	3
20	Adaptive Mentoring Support MS -Sync (M)	<ul style="list-style-type: none"> <li>This is a live synchronous session conducted by the mentor to support learners in completing the project and submitting the project report.</li> <li>The objective of this session is to ensure that learners complete and submit the project report prior to the summative assessment.</li> </ul> <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	3-12	3
21	SA-Sync	<p>Learners who have submitted the <b>project report</b> will attend this session.</p> <p>Summative Assessment (Individual learner)</p> <ul style="list-style-type: none"> <li>Presentation</li> <li>Oral Questioning</li> </ul>	3-13	30 min

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