Business Analytics

Session No#	Session mode	Session Type	Week - Day No. #	Duration Hrs
1	EL-Async	**IU 1 : Introduction to Data Analytics and Power BI** **IU 2: Power BI data transformation** **Video & Text** • 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. Go through all the above content thoroughly to gain a solid understanding of the concepts. For any clarifications, seek support from the AI-Mentor. Learners are required to complete **formative assessments** (MCQs, short-answer questions, etc.) and achieve **70% marks** before proceeding to the next Instructional Unit (IU). Upon completion of each formative assessment, learners will receive auto-graded results Learners must review the feedback, redo the assessment as necessary, and secure competency in each formative assessment. This process must be repeated until full competency is achieved.	Before Sync Session	3
2	FC -Sync	Introduction to Data Analytics, Data connections in Power BI • This is synchronous session conducted by the instructor which learners are required to attend. • During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. • An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. • This is a mandatory session, and attendance is required to meet the 75% attendance criteria where applicable	1-1	3
3	AS -Sync	• This is a live synchronous session conducted by the mentor to support learner queries on the concepts and assignments **Assignment 1: Integrate and Prepare Multi-Source Business Data for Analytics** (Refer details of this assignment in the assignment brief document) The mentor will review **During this session:**	1-2	3

		• Questions posted by learners and the corresponding responses from peers related to the assignments. • The mentor will address queries • The objective of this session is to ensure that learners complete assignments and score minimum 70% in each assignment • Attendance at this session is mandatory to meet the minimum 75% attendance requirement		
4	EL-Async	IU 3: Power BI Data Modelling **Video & Text** • Clean, transform, and load data • Change data types and remove null values • Model data • Star schema design • Fact and Dimension Tables Go through all the above content thoroughly to gain a solid understanding of the concepts. For any clarifications, seek support from the AI-Mentor. Learners are required to complete **formative assessments** (MCQs, short-answer questions, etc.) and achieve **70% marks** before proceeding to the next Instructional Unit (IU). Upon completion of each formative assessment, learners will receive auto-graded results Learners must review the feedback, redo the assessment as necessary, and secure competency in each formative assessment. This process must be repeated until full competency is achieved.	Before Sync Session	3
5	FC- Sync	Data transformations and data modelling using Power BI • This is synchronous session conducted by the instructor which learners are required to attend. • During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. • An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. • This is a mandatory session, and attendance is required to meet the 75% attendance criteria where applicable	1-3	3
6	AS -Sync	• This is a live synchronous session conducted by the mentor to support learner queries on the concepts and assignments **Assignment 2: Design and Implement an Enterprise Retail Analytics Data Model** (Refer details of this assignment in the assignment brief document) The mentor will review **During this session:**	2-4	3

		• Questions posted by learners and the corresponding responses from peers related to the assignments. • The mentor will address queries • The objective of this session is to ensure that learners complete assignments and score minimum 70% in each assignment • Attendance at this session is mandatory to meet the minimum 75% attendance requirement		
7	EL-Async	IU 4: Power BI Data Modelling with DAX **Video & Text** • Introduction to DAX · • DAX data types · • DAX operators • Measures Go through all the above content thoroughly to gain a solid understanding of the concepts. For any clarifications, seek support from the AI-Mentor. Learners are required to complete **formative assessments** (MCQs, short-answer questions, etc.) and achieve **70% marks** before proceeding to the next Instructional Unit (IU). Upon completion of each formative assessment, learners will receive auto-graded results Learners must review the feedback, redo the assessment as necessary, and secure competency in each formative assessment. This process must be repeated until full competency is achieved.	Before Sync Session	3
8	FC- Sync	Data modelling • This is synchronous session conducted by the instructor which learners are required to attend. • During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. • An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. • This is a mandatory session, and attendance is required to meet the 75% attendance criteria where applicable	2-5	3
9	AS- Sync	• This is a live synchronous session conducted by the mentor to support learner queries on the concepts and assignments **Assignment 3: Develop Advanced DAX Measures for Global Sales and Profitability Analysis** (Refer details of this assignment in the assignment brief document) The mentor will review **During this session:**	2-6	3

		• Questions posted by learners and the corresponding responses from peers related to the assignments. • The mentor will address queries • The objective of this session is to ensure that learners complete assignments and score minimum 70% in each assignment • Attendance at this session is mandatory to meet the minimum 75% attendance requirement		
10	EL-Async	IU 5: Power BI Formatting, Reports and Dashboards **Video & Text** • Data Visualizations • Tables and matrix visualization in Power BI reports • Card visualizations. Data slicers and filters. • Dashboard Interactions, Drill down, and Conditional formatting. Go through all the above content thoroughly to gain a solid understanding of the concepts. For any clarifications, seek support from the AI-Mentor. Learners are required to complete **formative assessments** (MCQs, short-answer questions, etc.) and achieve **70% marks** before proceeding to the next Instructional Unit (IU). Upon completion of each formative assessment, learners will receive auto-graded results Learners must review the feedback, redo the assessment as necessary, and secure competency in each formative assessment. This process must be repeated until full competency is achieved. •	Before Sync Session	3
11	FC -Sync	Data modelling with DAX • This is synchronous session conducted by the instructor which learners are required to attend. • During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. • An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. • This is a mandatory session, and attendance is required to meet the 75% attendance criteria where applicable	3-7	3
12	AS -Sync	• This is a live synchronous session conducted by the mentor to support learner queries on the concepts and assignments **Assignment 4: Design an Executive Power BI Reporting and Dashboard Solution** (Refer details of this assignment in the assignment brief document) The mentor will review **During this session:**	3-8	3

		• Questions posted by learners and the corresponding responses from peers related to the assignments. • The mentor will address queries • The objective of this session is to ensure that learners complete assignments and score minimum 70% in each assignment • Attendance at this session is mandatory to meet the minimum 75% attendance requirement		
13	EL-Async	IU 5: Power BI Formatting, Reports and Dashboards **Video & Text** • Power BI Service • Publish and share reports • Dashboards Go through all the above content thoroughly to gain a solid understanding of the concepts. For any clarifications, seek support from the AI-Mentor. Learners are required to complete **formative assessments** (MCQs, short-answer questions, etc.) and achieve **70% marks** before proceeding. Upon completion of each formative assessment, learners will receive auto-graded results Learners must review the feedback, redo the assessment as necessary, and secure competency in each formative assessment. This process must be repeated until full competency is achieved.	Before Sync Session	3
14	FC-Sync	Power BI reports and visualizations. • This is synchronous session conducted by the instructor which learners are required to attend. • During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. • An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. • This is a mandatory session, and attendance is required to meet the 75% attendance criteria where applicable	3-9	3
15	AS- Sync	• This is a live synchronous session conducted by the mentor to support learner queries on the concepts and assignments Assignment 5- **Publish and Operationalize an Executive Power BI Solution** (Refer details of this assignment in the assignment brief document) The mentor will review **During this session:** • Questions posted by learners and the corresponding responses from peers related to the assignments.	4-10	3

		• The mentor will address queries • The objective of this session is to ensure that learners complete assignments and score minimum 70% in each assignment • Attendance at this session is mandatory to meet the minimum 75% attendance requirement		
16	PM- Sync	During this session Mentor will explain the Project Brief, tasks to be completed. • Task 1: Transform and Clean Data Using Power Query • Task 2: Create Data Models, Relationships and Hierarchies • Task 3: Generate Informative Reports • Task 4: Develop an Interactive Executive Dashboard • Task 5: Showcase Key Metrics and Trends Refer the project brief document Learners will start doing the project and seek the support from the mentor	4-11	3
17	PI- Async	During this self-paced session, Learners will start completing the project tasks 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 peers or mentors support.	Before Sync Session	3
18	PM-sync	During this Synchronous session, Learners discuss with mentor and peers about the progress of the project. Mentor will address all the questions posted in the team's channel in which the learners have posted their questions.	4-12	3
19	PI-Async	During this self paced session, Learners will start completing the project tasks 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 peers or mentors support. 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.	Before Sync Session	3
20	PI-Async	During this self-paced session, Learners will start completing the project tasks 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 peers or mentors	Before assessment	3

		support.		
21	SA-Sync	Summative Assessment (Per learner) Project Presentation Oral Questioning	5-13	30 min

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