PART 2 – Data Visualization & Big Data		
Data Visualization using Power BI (30 hours)		
Introduction to Power BI	- Getting started - Adding data to Power BI - Understanding natural-language queries - Quick Insights - Introducing reports - Understanding Visual Interactions - Designing reports - Saving reports - Report detailing	3
Dashboarding	- Sharing dashboard (internal) - Sharing dashboard (external) - Creating workspace for group - Sharing with Microsoft - Reports and dashboards for mobile devices	3.5
Updating Data	- Understanding "data refresh" - Understanding Power BI refresh architecture - Power BI Desktop - Publishing to Power BI - Installing the Power BI Personal Gateway - Automating refresh	1.5
Power BI Desktop	- Database connections - Using multiple sources - Working with query editor - Understanding tables - Working with time-based periods	3
Building data model	- Loading individual tables - Implementing measures - Creating calculated columns - Report improvisations - Integrating information - Reallocating	5
Working with reports	- Visualizations - Standard visuals - Custom visualizations - Improving with custom visualizations - Identifying conditions for custom visualizations - Using DAX - Upgrading reports	2.5

Using Microsoft Power BI	• Data from existing systems • Understanding data refresh & live connections • Understanding relational databases • Understanding relational databases on cloud • Understanding live connections	6
Office integration	• Publishing Excel data models • Managing security to access data • Row-level security • Extending and customizing • Custom visualizations • Pushing real-time data • Advance scenarios in Power BI	5.5
Tableau (10 hours)		
Integration and Reporting Under Tableau	• Architecture of Tableau • Charts and Graphs • Working with Calculations and Expressions • Integration of Tableau with Various Data Sources	10