Program	BS Business Education		
Semester	8 <sup>th</sup>		
Credit Hours	3		
Pre-requisite	None		
Course Title	Data Analytics for Business		
Introduction	The course will start with understanding the basic concepts of Data Analytics. During the first phase of the course, students will focus on the science of analysing data and making conclusions for effective business decisions. Students will also learn basic data techniques in Microsoft Excel and create dashboards for managing the data. During the second phase of the course, students will focus on getting hands-on experience with SQL and creating the databases using Microsoft SQL Server 2016. This will enable students to format and design databases for organizations.		
	Lastly, we will focus on visualizations using PowerBI. This will help students analyse the data and get relevant findings. The course will conclude with an overview of Data Analysis Expression (DAX).		
Learning Outcome	<ul> <li>Introduction to the Fundamentals of Data</li> <li>Building a dashboard in Excel using different data format techniques</li> <li>Introduction to Database Management Solutions</li> <li>Addressing SQL queries and exploring details (DDL vs DML)</li> <li>Using PowerBI for visualization</li> </ul>		
Course Content	Introduction to the Fundamentals of Data Analytics		
	<ul> <li>Understand     Data Analytics     Reviewing     Data</li> <li>Format the data     in Excel Key     Excel Concepts</li> <li>Creating a Dashboard in Excel</li> </ul>		
	Introduction to Database Management Solution		
	<ul> <li>What is a Database</li> <li>How to create a database using SQL Server</li> <li>Introduction to SQL language</li> <li>Introduction to Database: Getting on board with Scripting</li> </ul>		
	• Using SQL Joins		
	• DML vs DDL		

<ul> <li>Normalization of the Databases (Theory)</li> <li>Writing SQL Queries and formatting the Data</li> </ul>			
<u> </u>			
Overview of Microsoft Power    Platform			
<ul><li> Understanding Power BI</li><li> Connecting Power BI to differen</li></ul>	at data sources		
Visualization: Advance			
<ul> <li>Filters, variables, and bookmarks in PowerBI</li> </ul>			
<ul> <li>Overview of DAX and data formatting in PowerBI</li> <li>Publishing the dashboard on Workspace</li> <li>Creating our first dashboard for Management</li> <li>Wrap Up</li> <li>Revising the concepts studied during the course</li> </ul>			
		Lecture	
		Multimedia presentations	
•			
5			
	25		
	25 35		
	40		
Total	100		
	<ul> <li>(Theory)</li> <li>Writing SQL Queries and formatting the Data</li> <li>Visualization</li> <li>Overview of Microsoft Power Platform</li> <li>Understanding Power BI</li> <li>Connecting Power BI to different</li> <li>Visualization: Advance</li> <li>Filters, variables, and bookmark PowerBI</li> <li>Overview of DAX and data form in PowerBI</li> <li>Publishing the dashboard on Wood Creating our first dashboard for Wrap Up</li> <li>Revising the concepts studied dure Lecture</li> <li>Multimedia presentations</li> <li>Cooperative Learning</li> <li>Non creditor workshops and seminars.</li> <li>Active Learning</li> <li>Course Evaluation</li> <li>Sessional</li> <li>Mid Semester Test</li> <li>Final Test</li> </ul>		