

## Business Intelligence and Data Analytics Practical

<b>B. Sc. (Information Technology)</b>		<b>Semester – VI</b>	
<b>Course Name: Business Intelligence and Data Analytics Practical</b>		<b>Course Code: USIT6P3</b>	
<b>Periods per week (1 Period is 50 minutes)</b>		<b>3</b>	
<b>Credits</b>		<b>2</b>	
		<b>Hours</b>	<b>Marks</b>
<b>Evaluation System</b>	<b>Practical Examination</b>	<b>2½</b>	<b>50</b>
	<b>Internal</b>	<b>--</b>	<b>--</b>

<b>List of Practical</b>	
<b>1.</b>	<b>Perform the analysis for the following:</b>
a.	Import the data warehouse data in Microsoft Excel and create the Pivot table and Pivot Chart.
b.	Import the cube in Microsoft Excel and create the Pivot table and Pivot Chart to perform data analysis.
<b>2.</b>	Apply the what – if Analysis for data visualization. Design and generate necessary reports based on the data warehouse data. Use Excel.
<b>3.</b>	Perform the data classification using classification algorithm using R/Python.
<b>4.</b>	Perform the data clustering using clustering algorithm using R/Python.
<b>5.</b>	Perform the Linear regression on the given data warehouse data using R/Python.
<b>6.</b>	Perform the logistic regression on the given data warehouse data using R/Python.
<b>7.</b>	Write a Python program to read data from a CSV file, perform simple data analysis, and generate basic insights. (Use Pandas is a Python library).
<b>8.</b>	<b>Perform data visualization</b>
a.	Perform data visualization using Python on any sales data.
b.	Perform data visualization using PowerBI on any sales data.
<b>9.</b>	Create the Data staging area for the selected database using SQL.
<b>10.</b>	Create the cube with suitable dimension and fact tables based on ROLAP, MOLAP and HOLAP model.

<b>Sr. No.</b>	<b>E-references</b>
1.	<a href="https://www.tutorialspoint.com">https://www.tutorialspoint.com</a>
2.	<a href="https://www.excel-easy.com">https://www.excel-easy.com</a>
3.	<a href="https://dl.ebooksworld.ir/motoman/Packt.Practical.Business.Intelligence.www.EBooksWorld.ir.pdf">https://dl.ebooksworld.ir/motoman/Packt.Practical.Business.Intelligence.www.EBooksWorld.ir.pdf</a>