

ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2023-24

COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

SIXTH SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
DS605T(i)	Open Elective II :Business	3	-	-	3	CA	ESE	Total
	Intelligence					30	70	100

Course Objectives	Course Outcomes			
This course is intended To enhance the ability of a student for examining Business Intelligence (BI) as a broad category of applications and technologies for gathering, storing, analyzing, sharing and providing access to data to help enterprise users make better managerial decisions				

Unit I [8Hrs]

Introduction : Introduction to Business Intelligence & Analytics (BIA), drivers of BIA, types of analytics: descriptive to prescriptive, Technical architecture of BIA, case analysis of AT&T Long distance, fundamentals of data management, OnLine Transaction Processing (OLTP), design process of databases

Unit II [8Hrs]

Basic Analysis Techniques: Technical architecture of BIA, case analysis of AT&T Long distance, fundamentals of data management, OnLine Transaction Processing (OLTP), design process of databases, Descriptive analytics, and visualization, customer analytics, survival analysis, customer lifetime value

Unit III [8Hrs]

Case studies and projects: Data mining process, introduction to statistical learning, data pre-processing, data quality, overview of data mining techniques, classification techniques, scoring models, classifier performance, ROC and PR curves, decision trees, tree induction, measures of purity, tree algorithms, pruning, ensemble methods

Unit IV [8Hrs]

Decision Making and Decision Support Systems: A BI perspective, Foundation and Technologies for decision Making,Information gathering ,Managing BI,BI User Segmentation,Gathering BI Requirements, Introduction to Tableau.

Unit V [8Hrs]

Modeling and Analysis, Knowledge Management and Collaborative Systems, Strategic Approach to BISocial media, big data and data mining, Business Analytics: Emerging Trends and Future Impacts

Text Books

S.N	Title	Authors	Edition	Publisher
1	Business Intelligence: The Savvy	David Loshin		Newnes
	Manager's Guide			
2	Business Intelligence: Practices,	1. Rajiv Sabherwal,		Wiley & Sons.
	Technologies, and Management	Irma Becerra-		-
		Fernandez.John		

Reference Books

S.N		Title		Authors	Edition	Publisher
1	Business	Intelligence:	Making	Jerzy Surma,		Business Expert Press
	Decisions Through Data Analytics, ,					

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Chairman - BoS	Dean – Academics	Date of Release	Version	2023-24	