College

M.Sc. Computer Science Syllabus Second Year (2019-24) (Sem - IV) **Business Intelligence**

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Objectives:

The syllabus aims in equipping students with,

- the role of BI in enterprise performance management and decision support.
- the applications of data mining and intelligent systems in managerial work.
- data warehousing and online analytical processing (OLAP) concepts, including dimensional modeling, star and snowflake schemas, attribute hierarchies, metrics, and cubes.
- data analysis and reporting using an available BI software.

Unit 1: Introduction to Business intelligence	
Chapter 1: Introduction to Business intelligence	04
 Definition and History of BI, 	4 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10
 Transaction processing versus analytical processing, 	
• BI implementation,	
 Major tools and techniques of BI 	

Chapter 2 : Data warehousing	
Definition and concepts	
Data warehouse architecture	
• ETL process, data warehouse development	10
Top down vs. Bottom up, Data Mart vs. EDW	# 10 mm m m m m m m m m m m m m m m m m m
• Implementation issues,	
• Real-time data warehousing	

Sr. No.	BOS member		Sign
1	Dr. Razak Sayyed	Subject Expert	
2	Prof. Abhijit Sathe	Subject Expert	202
3	Prof. Sonali Deshmukh	Subject Expert	Part.
4	Mr. Sumeet Kakroo	Industry Expert	Sumelt
5	Ms. Jyoti Sharma	Alumni	(The t
6	Prof. Ashwini Kulkarni	Chairman	du
7	Prof. Swati Pulate	Internal Faculty	300
8	Prof. Smita Borkar	Internal Faculty);; \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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Unit 2: Business performance management	
Chapter 3: Business performance management	14
 Key performance indicators and operational metrics 	***************************************
Balanced scorecard	
• Six Sigma	
 Dashboards and scorecards 	
Chapter 4: Data Mining for Business Intelligence	10
 Data mining process 	
 Data mining methods 	
• ANN for Data Mining	•

Unit 3: Text and Web mining and Integration and emerging trends		
Chapter 5 - Text and Web mining for Business intelligence	8	
 Text mining Applications 		
 Process and Tools 		
• Web content		
• structure and usage mining		
Chapter 6: BI implementation, Integration and emerging trends		
• Implementing BI, BI Application Life Cycle		
 Connecting BI to Enterprise systems 		
• On- demand BI, Issues of legality		
• privacy and Ethics		
• Emerging topics in BI		
• Social Networking and BI, RFID and BI		
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*Contact hours=04

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1	Dr. Razak Sayyed	Subject Expert	W
2	Prof. Abhijit Sathe	Subject Expert	Ser:
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8	Prof. Smita Borkar	Internal Faculty	1 × 1

Reference Books:

 EfraimTurban, Ramesh Sharda, Dursun Delen, and David King: Business Intelligence: A Managerial Approach, 2nd Edition, PEARSON 2012

ISBN-10: 0-13-610066-X ISBN-13: 978-0-13-610066-9

2. Simon Miller, William Hutchinson :Oracle Business Intelligence Applications, McGraw Hill Education 2013

ISBN-10: 93-5134-153-4

ISBN-13: 978-93-5134-153-6

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