CSI3017	Business Intelligence			T	P	J	С
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Pre-requisite	Nil	Syllabus version					
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Course Objectives:

- 1. Understand and Acquire the skills of BI lifecycle & its architecture to plan and implement the ETL processes.
- 2. Acquire the skills to understand the Decision Support System (DSS) technologies and organizational issues related to Business Intelligence (BI) required to implement a BI strategy for an organization.
- 3. Apply Business Performance Management and IT/strategic frameworks that are enabled by Business Intelligence tools and practices

Course Outcome:

- 1. Take initiatives to use BI for Organizational Decision making.
- 2. Plan and execute a BI industrial Project.
- 3. Perform Meta Data Repository Analysis.
- 4. Articulate examples of how businesses are using Business Intelligence tools to enhance competitiveness and profitability.
- 5. Adopt Business Intelligence tools and practices that align with business strategies based on a case analysis.

on	a case analysis.		
Student Le	earning Outcomes (SLO):	1,7, 14	
Module:1	BI Fundamentals		4 hours
Business Intelligence and its impacts: Factors driving BI - BI and related techniques - obstacles			
to BI - BI in Contemporary organizations and BI capabilities.			
Module:2	BI Life Cycle		6 hours
Introduction Business Intelligence Lifeguele Enterprise Derformance Life Cycle (EDLC)			

Introduction, Business Intelligence Lifecycle, Enterprise Performance Life Cycle (EPLC) Framework Elements, Life Cycle Phases, Human Factors in BI Implementation, BI Strategy, Objectives and Deliverables, Transformation Roadmap, Building a transformation roadmap, BI Development Stages and Steps, Parallel Development Tracks, BI Framework

Module:3 BI Technical Architecture

6 hours

Introducing the Technical Architecture: Technical Architecture overview, Back room Architecture, Presentation Server Architecture, Front room Architecture

Module:4 BI Modeling Process

7 hours

Modeling process overview - Getting organized - Four step modeling process - Design the dimensional model –Embrace data stewardship - Extract, Transform and Load overview - Extract, Transform and Load requirements and steps - Data extraction - Data transformation - Data loading.

Module:5 | Analytics in BI

7 hours

Types of Analytics - Predictive analytics - classification - Regression Analysis - Decision tree - Case studies: social media analytics, Prescriptive analytics.

Module:6 | Implementing BI

7 hours

Introduction, Business Intelligence Platform, Business Intelligence Platform Capability Matrix, BI Target Databases, Data Mart, BI Products and Vendor, The Big Four Business Intelligence vendors.

Module:7	Future of BI	6 hours		
Future of l	ousiness intelligence - Emerging Technologies, Predicting the Futu	are, – Advanced		
Visualization – Rich Report, Future beyond Technology				

Module:8	Contemporary issues	2 hours
Total Lecture hours		45 hours

Text Book(s)

- 1. Ramesh Sharda, Dursun Delen, Efraim Turban and David King, "Business Intelligence, Analytics, and Data Science: A Managerial Perspective", 4th Edition, Pearson Education, 2019.
- 2. Grossmann W, Rinderle-Ma, "Fundamental of Business Intelligence", 1st edition, Springer, 2015.

Reference Books

- 1. Gordon Linoff and Michael Berry , "Data Mining Techniques: For Marketing, Sales, and Customer Relationship Management", 3rd edition, Wiley 2011.
- 2 Joseph H. Silverman, "Introduction to Number Theory, 4th Ed. Boston", Pearson, 2012.
- Ramesh Sharda, Dursun Delen, and Efraim Turban., "Business Intelligence and Analytics: Systems for Decision Support", 10th edition, Pearson Education, 2014.

Systems for Decision support, 10 edition, rearson Education, 2014.				
Mode of Evaluation: CAT / Assignment / Quiz / FAT / Lab				
Recommended by Board of Studies 11-02-2021				
Approved by Academic Council	No. 61	Date	18-02-2021	