

CSI3017	Business Intelligence	L	T	P	J	C
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Pre-requisite	Nil	Syllabus version				
		1.0				
Course Objectives:						
<div>1. Understand and Acquire the skills of BI lifecycle & its architecture to plan and implement the ETL processes.</div> <div>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.</div> <div>3. Apply Business Performance Management and IT/strategic frameworks that are enabled by Business Intelligence tools and practices</div>						
Course Outcome:						
<div>1. Take initiatives to use BI for Organizational Decision making.</div> <div>2. Plan and execute a BI industrial Project.</div> <div>3. Perform Meta Data Repository Analysis.</div> <div>4. Articulate examples of how businesses are using Business Intelligence tools to enhance competitiveness and profitability.</div> <div>5. Adopt Business Intelligence tools and practices that align with business strategies based on a case analysis.</div>						
Student Learning 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 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 business intelligence – Emerging Technologies, Predicting the Future, – 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”, 1 st edition, Springer, 2015.		
Reference Books			
1.	Gordon Linoff and Michael Berry , “ Data Mining Techniques: For Marketing, Sales, and Customer Relationship Management” , 3 rd edition , Wiley 2011.		
2	Joseph H. Silverman , “ Introduction to Number Theory, 4 th Ed. Boston”, Pearson, 2012		
3	Ramesh Sharda, Dursun Delen, and Efraim Turban., “Business Intelligence and Analytics: Systems for Decision Support” , 10 th edition, Pearson 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