Syllabus for Master of Business Administration, 2nd Semester Subject Name: Business Analytics (BA) Subject Code: 4529201 With effective from academic year 2018-19

1. Learning Outcomes:

Learning Outcome Component	Learning Outcome (Learner will be able to)			
Business Environment and Domain Knowledge (BEDK)	 Develop understanding of various information technologies and their application to facilitate business intelligence. Examine the application of data analytics for a given business support function in a given industry. 			
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	• <i>Perform</i> a need assessment of a given business function and propose a framework for business reporting.			
Global Exposure and Cross-Cultural Understanding (GECCU)	• Analyze the current global business analytics practices and deduce the applicability of these practices in providing solutions to organization problems / decision making requirements.			
Social Responsiveness and Ethics (SRE)	• <i>Judge</i> the critical managerial and ethical issues in using business analytics.			
Effective Communication (EC)	• Evaluate and communicate results of analysis and technical information to both technical and non-technical audiences through verbal, written and graphical reporting.			
Leadership and Teamwork (LT)	• <i>Collaborate</i> with team members to design a framework for a given business problem using business analytics solutions.			

LO – PO Mapping: Correlation Levels:

1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High), "-"= no correlation

Sub. Code: 4529201	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1: Develop understanding of various information technologies and their application to facilitate business intelligence.	3	3	2	-	2	-	-	-	2
LO2: Examine the application of data analytics and related technological systems for a given business support function in a given industry.	3	3	2	-	2	2	-	2	2
LO3: <i>Perform</i> a need assessment of a given business function and	3	2	3	-	3	1	-	1	1



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C 1	1								
propose a framework									
for business reporting.									
LO4: Analyze the									
current global business									
analytics practices and									
deduce the									
applicability of these	2	3	3	-	3	1	-	1	2
practices in providing									
solutions to									
organization problems									
/ decision making									
requirements.									
LO5: <i>Judge</i> the critical									
managerial and ethical	_	-	_	-	1	-	3	1	_
issues in using									
business analytics.									
LO6: Evaluate and									
communicate results of									
analysis and technical									
information to both		2	2	2		1	2		
technical and non-	-	2	3	3	-	1	2	-	-
technical audiences									
through verbal, written									
and graphical									
reporting.									
LO7: Collaborate with									
team members to									
design a framework for	-	-	1	2	-	2	-	3	1
a given business									
problem using business									
analytics solutions.									



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Course Duration: The course duration is of 40 sessions of 60 minutes each.

2. Course Contents:

Module No:	Module Content	No. of Sessions	70 Marks (External Evaluation)
I	Business Intelligence: Definitions and Examples in Business Intelligence Need, Features and Use of Business Intelligence (BI) BI Components Data Warehouse Business Analytics Business Performance Management User Interface Business Analytics: Introduction to Business Analytics (BA) − Need. Components (Business Context, Technology, Data Science). Types (Descriptive, Predictive and Prescriptive). Business Intelligence versus Business Analytics. Transaction Processing v/s Analytic Processing OLTP v/s OLAP OLAP Operations Data models for OLTP (ER model) and OLAP (Star & Snowflake Schema)	10	18
II	 Types of Digital Data: Definition, Sources, Storage and Characteristics of Structured, Unstructured and Semi Structured Data Data Warehouse: Definition, characteristics, framework Data lake Business Reporting, Visual Analytics: Definition, concepts Different types of charts and graphs Emergence of data visualization and visual analytics 	10	18
Ш	 Data Mining: Concepts and applications Data mining process Text & Web Analytics: Text analytics and text mining overview Text mining applications Web mining overview Social media analytics Sentiment analysis overview Big Data Analytics: Definition and characteristics of big data Fundamentals of big data analytics 	10	17



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	Business Performance Management:		
	Business performance management cycle		
	KPI, Dashboard		
	Analytics in Business Support Functions:	10	17
137	Sales & Marketing Analytics		
IV	 HR Analytics Financial Analytics 		17
	 Production and operations analytics 		
	Analytics in Industries:		
	Telecom, Retail, Healthcare, Financial Services		
	Practical:		(20 marks
V	Students should prepare a detailed report on applications of		(30 marks
	analytics in different industries.		CEC)

3. Pedagogy:

- ICT enabled Classroom teaching
- Case study
- Practical / live assignment
- Interactive class room discussions

4. Evaluation:

Students shall be evaluated on the following components:

	Internal Evaluation	(Internal Assessment- 50 Marks)
A	 Continuous Evaluation Component 	30 marks
	 Class Presence & Participation 	10 marks
	• Quiz	10 marks
В	Mid-Semester examination	(Internal Assessment-30 Marks)
С	End –Semester Examination	(External Assessment-70 Marks)

5. Reference Books:

No.	Author	Name of the Book	Publisher	Year of Publication / Edition
1	Ramesh Sharda, Dursun Delen, Efraim Turban	Business Intelligence: A Managerial Perspective on Analytics	Pearson	3 rd
2	R.N.Prasad and Seema Acharya	Fundamentals of Business Analytics	Wiley	2016
3	U. Dinesh Kumar	Business Analytics – The Science of Data Driven Decision Making	Wiley	2017
4	Anil Maheshwari	Data Analytics	McGraw Hill	2017
5	Jesper Thorlund & Gert H.N. Laursen	Business Analytics for Managers: Taking	Wiley	Latest



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		Business Intelligence Beyond		
6	Sahil Raj	Business Analytics	Cengage	Latest
7	James R. Evans	Business Analytics	Pearson	Latest

Note: Wherever the standard books are not available for the topic appropriate print and online resources, journals and books published by different authors may be prescribed.

6. List of Journals / Periodicals / Magazines / Newspapers / Web resources, etc.

- 1. International Journal of Business Analytics
- 2. International Journal of Business Analytics and intelligence
- 3. International Journal on Consumer and Business Analytics
- 4. Analytics India Magazine