Course Title	Business Analytics and Information Systems					
Course Code	DBA730					
Course Type	Compulsory					
Level	D.B.A. (3 rd Cycle)					
Year / Semester	1 st Year / 2 nd Semester					
Teacher's Name	ТВА					
ECTS	10	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None	
Course Purpose and Objectives	Business Analytics is not based on rote memorization of equations or facts, but focuses on honing your understanding of key concepts, your managerial judgment, and your ability to apply course concepts to real business problems. This course begins with basic descriptive statistics and progresses to regression analysis. You'll learn course concepts in the context of performing A/B testing on a website, using sampling to check warehouse inventory, predicting home video sales based on box office performance, and forecasting staffing needs. Throughout the course, you will receive clear guidance on how to implement analytical techniques in SPSS. No matter your job function or career aspirations, this course will demystify data analysis and equip you with concrete skills to apply in your work or further studies. Successful organizations must deal effectively with intense global competition, a heightened focus on the bottom line, an increasingly rapid pace of change, and a close scrutiny of their ethical practices. For an organization to thrive in today's business environment, managers and functional specialists in all areas - accounting, finance, marketing, production and operations management, and human resources - must perform their jobs effectively, efficiently, and ethically. Information technology provides the tools that enable all organizational personnel to solve increasingly complex problems and to capitalize on opportunities that contribute to the success of the organization.					
Learning Outcomes	 Evalution formution making Synth 	sful completion of t late the usage and llation and examin ng. hesize and evalua t, and analyze busi	the applicat ation busine te the proc	tion of business a ess problems an	analytics to d decision	

	 Explain and evaluate the terminology and concepts related to hardware, software, and networks. This includes: a. Describe basic information technology concepts b. Define various business information systems, including transaction processing systems, management information systems, decision support systems, group support systems, and enterprise resource planning systems c. Define and distinguish among the Internet, Intranets, and Extranets Judge and recommend ethical issues related to using technology in business contexts Experiment information technology as a tool to do essential business tasks. This includes: a. Create documents, presentations, and spreadsheets b. Use the web to find information and/or create web pages 			
Prerequisites	None	Co-requisites	None	
Course Content	 Introduction to Analytics Visualization/ Data Issues Organization/sources of data Importance of data quality Dealing with missing or incomplete data Data Classification Data Mining Introduction to Data Mining Data Mining Process Data mining tool Market Basket Analysis Regression Trees Decision Modeling Optimization Demonstrate computer literacy by recalling terminology and concepts related to hardware, software, and networks Critically communicate effectively with technical and non-technical colleagues Use MIS to enhance decision making Generate informational reports Build and/or interpret models for planning 			

	 10. Organize, summarize, and analyze data 11. Create meaningful and effective information 12. Critically analyse business Transaction Processing Systems and Enterprise Resource Planning Systems 13. Critically analyse various Business Information Systems and concepts in Information Technology 14. Critically analyse the Internet, Intranets, and Extranets 15. Critically analyse ethical issues in business related to technology. 			
Teaching Methodology	Face to face			
Bibliography	 Kenneth C. Laudon, Jane P. Laudon, Management Information Systems: Managing the Digital Firm (16th Edition). Pearson Ramesh Sharda, Dursun Delen. Business Intelligence, Analytics, and Data Science: A Managerial Perspective. (4th Edition). Pearson Baltzan, P., <i>Business-driven information systems</i>. McGraw Hill Higher Education. Bocij, P., Greasley, A. and Hickie, S., <i>Business Information Systems: Technology, Development and Management</i>. Pearson education. 			
Assessment	Examinations60%Assignments30%Class Participation and Attendance10%100%100%			
Language	English			