COURSE	Name	:	Business Intelligence
	Code	:	EE185563
	Credit(s)	:	2
	Semester	:	(Elective Course)

Description of Course

This course teaches students the principle and concept of Business Intelligence to run good organizational governance. Starting from: basic business intelligence concepts, History and objectives of Business Intelligence, Business Intelligence work scheme, process and decision-making level Organization, Information System in Organization, Data-Mining Techniques, Data Processing for Analysis, Personal Knowledge and Organizational Knowledge, Employment Security, Decision Support System in organization, Expert System and Data Visualization Techniques.

Learning Outcomes

Knowledge

(P02) Mastering engineering concepts and principles to develop the necessary procedures and strategies for systems analysis and design in the areas of power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

Specific Skill

(KK02) Being able to compose problem solving in engineering through depth and breadth of knowledge which adapts to changes in science and technology in power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

General Skill

(KU02) Being able to perform academic validation or studies in accordance with their areas of expertise in solving problems in relevant communities or industries through the development of knowledge and expertise.

Attitude

(S09) Demonstrate a responsible attitude towards the work in the field of his/her expertise independently.

Course Learning Outcomes

Knowledge

Mastering the principles and concepts of Business Intelligence   in organization, the purpose and implementation of Business Intelligence, the business intelligence work scheme, Implementing Information Systems in organization, the process and level of decision making Organization, the conception of Personal Knowledge and Organizational Knowledge in organization, the conception of Employment Security and its prevention techniques, Decision support system using Data mining techniques, Expert System Technique to support the decision making, Data Visualization Techniques in the framework of DCS.

Skill

Able to explain the principles and concepts of Business Intelligence or Business Intelligence to run the organization's governance, the history and purpose of Business Intelligence in the organization, the process and level of decision making Organization, the conception of Personal Knowledge and Organizational Knowledge in the governance of business organizations, the conception of Employment Security and its prevention techniques, applying Decision Support System using Data Mining technique, Data Visualization Techniques

Main Subjects

1. History and conception of Business Intelligence (BI) for the Organizations
2. Organizational Decision Making
3. Conception of Knowledge Management in BI
4. Data Management
5. Decision Support System
6. Expert System
7. Data Visualization Technique

Reference(s)

[1] Business Intelligence and Data Mining., Anil K Maheswari., 2015.
[2] Decision Support and Business Intelligence Systems: 9th Edition., Efraim Turban, Ramesh E Sharda, Dursun Delen
[3] Best Practice in Business Intelligence and Data ware housing., TDWI Vol 24., 2007.
[4] Introduction to the SAS®9 Business Intelligence Platform: A Tutorial., Greg Nelson Thot Wave Technologies, Chapel Hill, North Carolina.
[5] The Bumper Book of Business Intelligence, Matillion Business Intelligence.

Prerequisite(s)

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