COURSE	Name	:	Distributed Database Management System
	Code	:	EE185550
	Credit(s)	:	2
	Semester	:	(Elective Course)

Description of Course

This course explains the basics of distributed database systems which include architecture, design, query processing and optimization and transactions.

Learning Outcomes

Knowledge

(P01) Mastering the concepts and principles of science in a comprehensive manner, and to develop procedures and strategies needed for the analysis and design of systems related to the field of power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics as a preparation for further education or professional career.

Specific Skill

(KK01) Being able to formulate engineering problems with new ideas for the development of technology in power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

General Skill

(KU11) Being able to implement information and communication technology in the context of execution of his/her work.

Attitude

(S09) Demonstrating attitude of responsibility on work in his/her field of expertise independently.
(S12) Working together to be able to make the most of his/her potential.

Course Learning Outcomes

Knowledge

Mastering the concept of business intelligence based on mathematical models, the concept of decision making and the concept of data warehouse.

Specific Skill

Able to begin processing to eliminate outliers, design business intelligence systems and build data mining applications and business intelligence.

General Skill

Able to median and build a data warehouse for business intelligence projects.

Attitude

Demonstrating attitude of being responsible for the work in his area of expertise independently.
Working together to be able to make the most of their potential.

Main Subjects

1. Introduction to DDBS
2. Distributed Database Management System Architecture
3. Distributed Database Design
4. Semantics Data Control
5. Query Processing Issues
6. Distributed Query Optimization
7. Transaction Management
8. Concurrency Control
9. Reliability
10. Parallel Database Systems

Reference(s)

[1] Jiawei Han and Micheline Kamber, Data Mining: Concepts and Techniques, Morgan Kaufmann, Second Edition, 2006.
[2] Ian H.Witten and Eibe Frank, Data Mining: Practical Machine Learning Tools and Techniques, Morgan Kaufmann, Second Edition, 2005.
[3] Nong Ye, The handbook of data mining, Lawrence Erlbaum Associates, Inc., 2003.

Prerequisite(s)

--