Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF360	Database Management and Security	6	3	0	0	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Elective
Course Level	Bachelor Degree
Objective	The primary goal of the Database Management and Security course is to teach the Computer Engineering students to manage a real time distributed database and to secure the database by using the basic database principles they learned in Relational Databases. At the same time, it is aimed that the learner has information about the security of information systems in general. During the course, the basic principles of database management will be explained, we will focused on more security issues Following each theoretical course, each subject will be applied on one of the commonly used database management systems
Content	Week 1: Introduction to distributed data architects and management Week 2: Schema, Table, Index, Views management and user authorizations Week 3: Database mirroring and replication Week 4: Database backup techniques Week 5: Data recovery techniques Week 6: Fundamental principles of database security (1/2) Week 7: Fundamental principles of database security (2/2) Week 8: Midterm Exam Week 9: Data security policies and life cycle Week 10: Technical Visite to IBM Data Center Week 11: Database violation (1/2) Week 12: Database violation (2/2) Week 13: SQL Injection Week 14: Database security test
References	1. Özsu, M. T. , Valduriez, P. Principles of distributeddatabasesystems. SpringerScience& Business Media, 2011 2. Basta A, Zgola, M. Database Security, Course TechnologyCengage Learning, Boston, MA, USA, 2012 3. Mullins, C. Database Administration: thecompleteguidetopracticesandprocedures. Addison-Wesley Professional. 2002 4. Complete list of Oracle 11g referencebookshttp://www.oracle.com/pls/db112/homepage 5. SQL Server Books on-linehttp://technet.microsoft.com/en-us//library/ms130214(SQL.105).asp

Theory Topics

Week	Weekly Contents