

Faculty of Computers and Information Technology

Data Warehousing

Information:

Course Code: ISY 442 Level: Undergraduate Course Hours: 3.00- Hours

Department : Department of Information Systems

Instructor Information:		
Title	Name	Office hours
Associate Professor	Manal Abdel Kader Abdel Fattah Youssif	1
Lecturer	Mohamed Attia Mohamed	3

Area Of Study:

This course introduces the basic concepts of data warehouse applications and lifecycle. The Design Concepts of Data Warehouse. Designing a Dimensional Model. Introducing Business Intelligence Applications. Also, the course equips students with some hands-on example of a simple data warehouse implementation.

Description:

Introduction to Data Warehousing, Evolution of DSS, DW General Topics, Data Warehouse Structure: Granularity, Data Warehouse Design, Building Dimensional DW, OLAP tools, Aggregates, ELT Extraction/Transformation/ Load processes and tools, Issues of DW Architecture, Enterprise DW vs. Data Marts, DW and Data Mining

Course out	comes :
a.Knowled	ge and Understanding: :
1 -	Be familiar with Business Intelligence applications
2 -	Be familiar with the basic concepts of designing Dimensional Model
3 -	Be familiar with basic concepts of Data Warehouse design
4 -	Be familiar with the Data Warehouse Lifecycle
5 -	Be conversant in the basic concepts of Data Warehouse
b.Intellectu	al Skills: :
1 -	Describe and evaluate a real Data Warehouse applications in local Business community
c.Professio	onal and Practical Skills: :
1 -	Develop a working application using a commercial data warehouse software tool
d.General a	and Transferable Skills: :
1 -	Think logically, manage time effectively and work independently

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Data Warehouse Concepts	3	2	2



Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Data Warehouse Design Concepts	3	2	2
Data Warehouse Lifecycle	3	2	2
Dimensional Model Concepts	3	2	2
Dimensional Model Design	3	2	2
Midterm Exam I	2	1	2
Designing the Physical Database	3	2	2
Concepts of Extract, Transform	3	2	2
Concepts of Load (ETL)	3	2	2
Concepts of Business Intelligence Applications	3	2	2
Concepts of Business Intelligence Applications	3	2	2
Midterm Exam II	2	1	2
Designing and Developing Business Intelligence Applications	3	3	3
Presentation/Discussion of Case Studies	3	3	3

Teaching And Learning Methodologies	<u>5:</u>
″Á_ectures	
"ÁPractical training	
″ÁSelf-Study	
"ÁOpen Discussion	
″ÁPresentation	
″ÁProject	
″ÁWeb site searches	

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00	15	
Mid-Term Exam1	15.00	6	
Mid-Term Exam2	15.00	12	
Project	20.00	14	
Research/Presentation	10.00	14	