FEDERICO SANTA MARÍA TECHNICAL UNIVERSITY DEPARTMENT OF COMPUTING

SUBJECT: TECHNOLOGICAL BASES FOR BUSINESS INTELLIGENCE		ACRONYM: INF330
PREREQUISITES:	Credits: 3	Exam: Does not have
Weekly Lecture Hours: 4	Weekly Assistantship Hours: 0	Weekly Laboratory Hours 0

OBJECTIVES: (between 3 and 6)
Upon passing the subject the student will be able to:

- Understand the importance of decision making in the work of an organization, and the role of information systems in it.
- Know the concepts and activities present in the life cycle of a Data Warehouse, as a basic component of a decision-making support system.
- Understand the different ways of accessing data from a Data Warehouse, emphasizing OLAP analysis and Data Mining, and analyzing their application to real situations.

CONTENTS: (Name of chapters or topics listed, between 4 and 10) 1. Introduction to Decision Making and Business Intelligence.

2. Conceptual aspects of Data Warehousing: Basic Concepts. Life Cycle of a Data Warehouse. Design and Management of a Data Warehouse.
3. Physical aspects of the Data Warehouse: Multidimensional Data Model. Implementation of a Data Warehouse.
4. Data Mining: Information Discovery Process. Data Mining Techniques. Data Mining Applications (CRM, Web Mining, others).

WORK METHODOLOGY: (eventual)

1. Expository classes, with the use of didactic and audiovisual support elements.
2. Development of Practical Cases with the support of Software Tools.

BIBLIOGRAPHY: (maximum 4)

- Jarke M., Lenzerini M., Vassiliou Y. and Vassiliadis P.: "Fundamentals of Data Warehouses", 2nd. Edition, Springer, 2003.
- Hernández J, Ramírez MJ and Ferri C.: "Introduction to Data Mining", Prentice-Hall, 2003.

ELABORATED APPROVED DATE	JL Martí. C.Reyes	OBSERVATIONS: