

BIN550 : Business Intelligence Technologies

The Business Intelligence Technologies Course develops students' understanding of data management technologies and processes that support successful business intelligence (BI) systems with an emphasis on the design and creation of a data warehouse. Lessons cover the practical planning and management of data warehouse projects including architecture and physical design. Topics include the basics of extract, transform, and load (ETL) processes as well as the implementation and management of data warehouses. Students will explore common BI systems architecture and the operational dimensions of BI technology including database administration, data warehousing, and data mining. The course will also examine the role of transactional databases and online transactional processing (OLTP) and explore common BI tasks including reporting, performance monitoring, and forecasting. Students will learn how technologies such as data warehouses, data cubes, data marts, and online analytic processing (OLAP) are used to access, analyze, and distribute organizational information. Case analysis and real-world examples will provide students with an introduction to basic statistical and analytic tools used by BI to solve problems and improve decision making in a variety of industries and contexts.

Credits 3