Software Engineering

Data Warehousing and Mining

Databases and Database users, Database systems concepts and Architecture, Data modeling using the Entity-Relationship model, Introduction to Data Mining, Business Intelligence, Data Warehouse and OLAP Technology, Data Preprocessing, Extraction, Transformation and Loading, Data Mining Primitives, Regression, Associations, Classification and Prediction,: Cluster Analysis

Computer Networks and Security

Reference models, Physical Layer, Multiple access protocols, Ethernet, Routing algorithms, Congestion control algorithms, Quality of service, Internet working, Network layer in the Internet, Transport service, Elements of transport protocols, Internet transport protocols: TCP & UDP, Domain Name System

WEB Technologies

World Wide Web, markup language like HTML, XHTML and XML, dynamic content generated languages like ASP, JSP and SERVLETS.