**Course Name: Advanced Database Management Systems**

**Course Structure:** Lectures: 3/Labs: 0 **Credit Hours:** 3

**Prerequisites:** Introduction to Database Systems

**Course Outline:**

Object-Oriented Databases,

Object-Relational Databases,

Mobile Databases,

Temporal, Spatial and Geographic Databases,

Distributed Database Design,

Distributed Multimedia Database Systems,

Data Warehouse and OLAP Systems,

Business Intelligence,

XML Data Models,

XML Documents and DTD,

XML Query Languages,

**Current Research and Development Trends of Database Analysis,**

**Design, Modeling and Applications.**

**Recommended Text:**

1. An Advanced Course in Database Systems: Beyond Relational Databases, S.

W. Dietrich and S. D. Urban, Prentice Hall, 2005.