

## **COP-4xxx Advanced Database Management**

### **New Course Justification**

This advanced database course is an elective for both Computer Science and Information technology majors. Several new topics have evolved in database field over the past decade such as XML, information retrieval, NOSQL, big data, etc. These topics together with standard advanced database topics such as query optimization, transactional processing and concurrency control, form the modules of this course. This course will educate students in emerging technologies and enables them to acquire competitive skills for the industry needs.

The attached detailed syllabus includes appropriate course outcomes relevant to the topics, and a list of projects on advanced database technologies.