Introduction to Databases Using MS Access

CSE 1114

Credit Hours:
1.50 - 1.50

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture
Lab

Course Description:
Database concepts and techniques for efficient/effective data handling, computational analysis and decision support.

Course Goals / Objectives:
- Be familiar with concepts of relational databases.
- Be familiar with solving problems using MS Access Query tools including selection queries, sorts, aggregation, calculations, inner/outer joins, and situations with datasets containing many-to-many relationships using multiple queries.
- Be familiar with using MS Access to create data tables, reports, and forms.
- Be competent using macros.
- Be exposed to SQL.
- Be exposed to tools that facilitate lifelong learning of technology.

Course Topics:
- Relational database management systems
- Table Design, including primary/foreign keys, and referential data integrity
- Table Relationships (inner and outer joins)
- Use the query tool to find/organize information
- Access Macros
- SQL
- Forms and Reports
Designation:
Elective