

Type/ Status : Core
Course Code : SOST 32434
Title : **Information System and Database Management**
Learning Outcomes : On completion of this course unit students should be able to understand the importance of Information to Management, understand the concept of Information systems and Database Systems, Design, create, maintain, and manage database systems, designing and coding Visual Basic Projects.

Course Content :

- Information Systems: Definition, Data Processing System, Management Information System, Decision Support System, System Development Life Cycle.
- Database and Database Management Systems (DBMS): Functions of DBMS; Advantages and Disadvantages of DBMS.
- Database: Introduction, Functions of Database, Properties of Database.
- Database Development: Introduction, Data and database Administration, Normalization, Entity relationship diagramming, object modeling, Relational Data Model, Classic Data Model, Object Oriented Data Model.
- Database Protection
- Database management: Database Interface, Structured Query Language (SQL)
- Distributed database systems
- Visual Basic 6: Introduction, Objects and Methods, working with forms, selecting and using controls, creating and using menus and toolbars, storing and retrieving data.

Methods of Teaching and Learning : Lectures, Discussions, Assignments and Group Projects

Assessment Scheme :

Assignments	30%
Group Project	10%
Semester end examination	60%

Recommended Readings :

Hansen, G.W. and Hansen, J.V. (2005), *Database Management and Design*, Prentice-Hall of India Pvt Ltd

Elmasri, R., Navathe, S.B., Somayajulu, D.V.L.N. and Gupta, S.K. (2004), *Fundamentals of Database Systems*. Dorling Kindersley (India) Pvt Ltd.

Davies, P. B. (1996), *Database Systems*, Macmillan Press Ltd.

Bradley, J.C. and Millspaugh, A.G. (2002), *Programming in Visual Basic 6*, McGraw-Hill Irwin Inc.