



Course Title: Information System and Decision Support system for Management

Course Code: CSIT613

Credit Units: 3

L	T	P/S	SW/F W	TOTAL CREDIT UNITS
3				3

Course Objectives:

This course will expose students to use of information technology for decision making in any organization. It will make students understand the basic importance of IS in an organization and also introduce certain basic technologies used for business Intelligence and knowledge Management

Student Learning Outcomes:

1. Develop the understanding and practical exposure to the techniques of Decision Support System
2. Provide the best chance of growth of an organization in the new age.
3. Development of basic skills of Business Intelligence
4. Enhance the analytical and design skills which are applicable in all Business Functional Areas.

Course Contents/Syllabus:

	Weightage (%)
Module I Descriptors/Topics Information Systems in Business and Decision Support Process in Business Business Process, and role of Information Systems in Business Processes , Types of Management Support Systems,(Transaction Processing System, Management Information System, Decision Support Systems, Executive Support Systems and Strategic Information Systems, Components of Information Systems, Centralized and Decentralized Information Systems .Role of Information in Decision Making Process, Steps in Decision Making , Levels of Decision Making , Types of Decision (Structured , Semi structured & Non Structured Decisions) .	25%

Module II	25%
Descriptors/Topics Knowledge Management Concepts Introduction to KM, KM myths, understanding knowledge , Types of knowledge, Knowledge management system life cycle , Introduction to the models of knowledge management . Concept and Characteristics of Knowledge Based Organizations. Managing Knowledge for organizational Knowledge and Role related Technology behind KM, Implementation of KM in an organizations, Various parameters of implementation,Expert Systems, various knowledge capturing techniques. Knowledge transfer in e-world and its related concepts .	
Module III	25%
Descriptors/Topics Business Intelligence Data Mining Concepts and Applications,Process,Methods, software tools; Data mining myths and blunders;Artificial Neural Networks for data mining;Text and web mining;Data Warehousing; Business performance Management	
Module IV	25%
Descriptors/Topics Decision Support System Management support systems: Emerging trends and Impacts;Computerised decision support: Decision making,systems, modeling, and support,RFID and new BI application Opportunities; virtual worlds	

Pedagogy for Course Delivery:

- Lectures**
- Guest Lectures**
- Company Analytics**
- Group Projects**

Lab/ Practicals details, if applicable:

Ms –Excel and MS-Access will be done in labs as they require practical hands-on

Assessment/ Examination Scheme:

Theory L/T (%)	Lab/Practical/Studio (%)	End Term Examination
100%		70

Theory Assessment (L&T):

Continuous Assessment/Internal Assessment					End Term Examination
Components (Drop down)	Case study	Group Project	Mid Term	Attendance	
Weightage (%)	5%	10%	10%	5%	70

Text & References

- Norton P (2010), Introduction to Computers, Tata McGraw-Hill
- Potter T (2010), Introduction to Computers, John Wiley & Sons (Asia) Pvt Ltd
- Morley D & Parker CS (2009), Understanding Computers – Today and Tomorrow, Thompson Press
- Jawadekar, WS (2009); Management Information System; Tata Mc Graw Hill
- Mclead R & Schell G (2009), Management Information Systems; Pearson Prentice Hall
- O’Brein, JA (2009); Introduction to Information Systems; Tata Mc Graw Hill

Papers and articles

- “Trends and Opportunities in the Indian Automotive Sector”; Mr. Deepak Kapuria; 2009
- “Scope for RFID Implementation in the Indian Auto components Industry”, Haritha Saranga, Tejas Dave, A.T.Shubha
- “Realistic Analysis of Data Warehousing and Data Mining Application in Education Domain”, Manjunath T. N., Ravindra S. Hegadi, Umesh I. M., and Ravikumar G. K.