

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
DECISION SUPPORT SYSTEMS & INTELLIGENT DSS

Objective: To provide in depth knowledge about significance of Decision systems in growth of organization.

Contents:

Unit 1 Decision Making & computerization

- A Framework & Concept for Decision Support
- A Preview of the Modeling Process
- Decision Making & its Phases
- Evaluation: Multiple Goals, Sensitivity Analysis, What-If, and Goal Seeking
- Characteristic and Capabilities of DSS
- Component of DSS
- Introduction to Group Support Systems, Executive Support Systems, Enterprise Information Systems
- Introduction to Knowledge Management Systems, Expert Systems, Artificial Neural Networks, Intelligent DSS

Unit 2 Decision Support System Development

- Introduction
- Development Methodologies
- Change Management
- Development Platforms and Tools

Unit 3 Intelligent DSS

- Introduction to Knowledge Management
- Basic Concepts of Expert Systems
- Structure of Expert Systems
- Working of Expert System
- Benefits, Capabilities and Limitations of Expert System
- Types of Expert Systems
- Knowledge Engineering
- Scope and Types of Knowledge
- Knowledge Acquisition
- Knowledge Representation
- Knowledge Verification & Validation

Unit 4 Advanced Intelligent Systems

- Neural Network Fundamentals
- Benefits and limitations of Neural network.
- Fuzzy Logic
- Intelligent software agents

Reference: