Course Description:

This course teaches the scientific concept of decision support systems and components. It gives knowledge of the decision-making models under different circumstances, as well as to identify the intelligent systems and their role in the process of decision support. It also teaches how to deal with crises and disasters using decision support systems.

Course Contents:

1. Scientific methods of decision-making.
2. Frameworks to support decision-making techniques.
3. The basic elements of the process of decision support systems.
4. Models of decision-making under conditions of full knowledge, risk or uncertainty.
5. The relationship between the decision and the level of performance.
6. The basic components of helping systems in decision-making: the computer - specialized databases to support decision-making - intelligent systems to aid in decision support systems - expert systems support in decision-making.

Course Outcomes:

1. To understand various frameworks for decision support systems techniques.
2. To know elements and techniques of the basic components of decision support systems.
3. To deal with crises and disasters using decision support systems.
4. To design scientific simulator models based on decision support multiple examples.

Textbook:

Extra Reference: