Model No.12
Course Specifications: Management Information System

University: Benha University

Faculty: Faculty of Engineering at Shoubra

Department offering the program: Mechanical Engineering Department

Department offering the course: Mechanical Engineering Department

1- Course Data

Course Code: MDP362

Course Title: Management Information System

Specialization: Mechanical Production Engineering

Course Type: Elective

Study Year: Third Year

Teaching Hours: Lecture: 4   Tutorial: 2   Practical: 0   Total: 6

2- Course Aim

For students undertaking this course, the aims are to:

1. Study the important uses of information technology in organizations. Includes information requirements and flow, system design and analysis methodologies, the generation and accumulation of data for decision making, and the implementation and control of information systems.

3- Intended Learning Outcomes of Course (ILO's)

a. **Knowledge and Understanding Skills:** On completing this course, students will be able to demonstrate the knowledge and understanding of :

a.1 Basics of information and communication technology (ICT). (A.2)

a.2 Techniques for solving of engineering problems using IT. (A.5)

a.3 Business and engineering management. (A.7)

a.4 Management and business techniques based on IT. (A.20)

b. **Intellectual Skills:** At the end of this course, the students will be able to:

b.1 Choose suitable solutions for engineering problems based on analytical thinking. (B.2)

b.2 Solve engineering problems using IT. (B.7)

b.3 Analyze and interpret data for decision making. (B.14)

c. **Practical and Professional Skills:** On completing this course, the students are expected to be able to:

c.1 Use Microsoft Excel to Analyze and interpret data for decision making. (C.6)

c.2 Establish basic organizational and project management skills. (C9)

d. **General and Transferable Skills:** At the end of this course, the students will be able to:

d.1 Successfully manage tasks, time, and resources. (D.6)

d.2 Look for for information and engage in life-long self-learning discipline. (D7)

4- Course Contents

Week no.	Topics
1	Principles of Information Systems
2	Statistical Analysis for Business
3	Introduction to Operations and Supply Chain Management
4	Information Systems Analysis
5	Business Applications Programming
6	Information Systems Technology
7	Data Management Systems
8	Reporting Techniques for Business Professionals
9	Information Systems Design
10	Project Management
11	E-Business/Web Development
12	Information Technology Projects
13	Intermediate Programming for Business Applications
14	Operations and Supply Chain Management

5- Teaching and Learning Methods

5.1- Lectures

5.2- Laboratory

5.3- Class activity

5.4- Case study

5.5- Assignments / homework

6- Teaching and Learning Methods of Disables

- Nothing.

7- Student Assessment

a- Student Assessment Methods

1. Five assignments to assess knowledge and intellectual skills.
2. Two quizzes to assess knowledge, intellectual and professional skills.
3. Midterm exam to assess knowledge, intellectual, professional and general skills.
4. Final exam to assess knowledge, intellectual, professional and general skills.

b- Assessment Schedule

NO.	Assessment	Week
1	Assignments	4, 5, 6, 9 ,11
2	Quiz	5,11
3	Midterm exam	8
4	Oral exam	-
5	Final exam	15

c- Weighting of Assessments

Assessment	Weight (%)
Midterm Examination	20
Final Term Examination	67
Oral Examination	0
Practical Examination	0
Semester Work	8
Other Types of Assessment	5
Total	**100**

8- List of References

   a- Course Notes: 1- Course notes prepared by instructor

b- Recommended Books

1. O'Brien, J (1999). Management Information Systems – Managing Information Technology in the Internetworked Enterprise. Boston: Irwin McGraw-Hill.
2. Laudon, K.,&Laudon, J. (2010). Management information systems: Managing the digital firm. (11th ed.). Upper Saddle River, NJ: Pearson Prentice Hall

Course Coordinator: Prof. Dr. Attia Gomaa

Head of Department: Prof. Dr. Osama Ezzat Abdelatif

Model No.11A
Course Specifications: Management Information System

University: Benha University
Faculty: Faculty of Engineering at Shoubra
Department offering the program: Mechanical Engineering Department
Department offering the course: Mechanical Engineering Department

Matrix of Knowledge and Skills of the Course

no.	Topics	Week no.	Knowledge and Understanding Skills	Intellectual Skills	Practical and Professional Skills	General and Transferable Skills
1	Principles of Information Systems	1	a.1			
2	Statistical Analysis for Business	2	a.2	b.1		
3	Introduction to Operations and Supply Chain Management	3	a.1			
4	Information Systems Analysis	4	a.1		c.1	
5	Business Applications Programming	5	a.2	b.1	c.1	d.1
6	Information Systems Technology	6	a.1			
7	Data Management Systems	7	a.3		c.2	
8	Reporting Techniques for Business Professionals	9		b.1		d.1
9	Information Systems Design	10	a.3			
10	Project Management	11		b.2	c.2	
11	E-Business/Web Development	12				
12	Information Technology Projects	13	a.3	b.3	c.2	d.2
13	Intermediate Programming for Business Applications	14		b.3		d.2

Course Coordinator: Prof. Dr. Attia Gomaa

Head of Department: Prof. Dr. Osama Ezzat Abdelatif

Matrix of Course Aims and ILO's

Course Title: Management Information System

Course Code: MDP362

Teaching Hours: Lecture: 4   Tutorial: 2   Total: 6

Major or minor element of program: Major

Program on which the course is given: B.Sc. Mechanical Production Engineering

Department offering the program: Mechanical Engineering Department

Department offering the course: Mechanical Engineering Department

Academic year / level: 2014-2015 Third Year / First Semester

Date of specifications approval: 2014

Course aims	Basic Knowledge	Intellectual skills	Professional skills	General skills
Studies the important uses of information technology in organizations. Includes information requirements and flow, system design and analysis methodologies, the generation and accumulation of data for decision making, and the implementation and control of information systems.1-Project activities	a1, a3, a2, a4	b1, b2, b3	c1, c2	d1, d2

Course Coordinator: Prof. Dr. Attia Gomaa

Head of Department: Prof. Dr. Osama Ezzat Abdelatif