

### 4.2.3. Information Systems Courses (CIS)

#### Introduction to Information Systems

#### CIS1000

##### COURSE INFORMATION

| Prerequisites | Academic Year & Level |          | Teaching Methods |          |            | Credit Hrs. |
|---------------|-----------------------|----------|------------------|----------|------------|-------------|
|               | Year                  | Semester | Lecture          | Tutorial | Laboratory |             |
| None          | 1                     | 1        | 2                | 2        | 0          | 3           |

##### COURSE AIM

1. Overview the five basic areas of information systems knowledge needed by business professionals, including the conceptual system components and major types of information systems
2. Introduce fundamental concepts of competitive advantage through information technology.
3. Review history, trends, and developments in microcomputer, midrange, and mainframe computer systems; basic computer system concepts; and the major types of technologies used in peripheral devices for computer input, output, and storage.
4. Review the basic features and trends in the major types of application software and system software used to support enterprise and end-user computing.
5. Introduce key database management concepts and applications in business information systems.
6. Present an overview of the Internet and other telecommunication networks, business applications, and trends and reviews technical telecommunications alternatives.
7. Understand the role of e-business, e-commerce and decision support systems.

##### COURSE WEEKLY CONTENTS

- 1 Course Description and Introduction
- 2 Foundations of Information Systems in Business
- 3 Organizational strategy, Competitive advantage and IS
- 4 Ethics and Privacy
- 5 Information Security
- 6 Multimedia Information Systems part 1
- 7 Multimedia Information Systems part 2
- 8 Data and Knowledge Management
- 9 E-business and E-commerce
- 10 Systems Analysis and Design
- 11 Social Computing part 1
- 12 Social Computing part 2
- 13 Information systems within the Organization
- 14 Business Analytics part 1
- 15 Business Analytics part 2

##### STUDENT GRADING & ASSESSMENT

| Weeks    | Exams | Assign. | Quizzes | Reports | Present. | Lab. | Total |
|----------|-------|---------|---------|---------|----------|------|-------|
| 1 to 7   | ←     |         | 30      | MARKS   |          | →    | 30    |
| 8 to 12  | ←     |         | 20      | MARKS   |          | →    | 20    |
| 1 to 15  | ←     |         | 10      | MARKS   |          | →    | 10    |
| 16 or 17 | 40    | Final   |         |         |          |      | 40    |

##### REFERENCES

|          |                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------|
| Textbook | Ralph M. Stair, Thomas Chesney, George Walter Reynolds, Principles of Business Information Systems, Cengage Learning. |
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