



## CARITAS COMMUNITY AND HIGHER EDUCATION SERVICE

**Lecturer:** NG Chi Chung Francis

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**Objective(s):**

Upon completion of this subject, students should be able to:

- have fundamental concepts of information systems;
- identify different types of information systems facilitating business operations, communication and decision making;
- describe the procedures of systems development, implementation, evaluation and maintenance;
- acquire the basic concepts of systems management and control.

**Number of hours:** 60

**Contact Hours/Week:** 2 hours

**Proposed text and reference book(s):**

- Stair, R.M., Reynolds, G.W. (2001). Principles of Information Systems. (8<sup>th</sup> Edition). Thomson Learning.

**Modes of assessment and their relative weighting:**

|                       |     |             |
|-----------------------|-----|-------------|
| Continuous Assessment |     | 40%         |
| Assignment x 2        | 10% |             |
| Test x 1              | 20% |             |
| Class Participation   | 10% |             |
| Examination           |     |             |
| Final Examination     |     | <u>60%</u>  |
|                       |     | <u>100%</u> |

**Passing criteria:**

1. Not less than 50% of the assessed value of the course; and
2. Not less than 80% of the attendance rate

**DETAILED SYLLABUS**

| Topic   | Mode of delivery* | No. of contact hours |
|---|-------------------|----------------------|
| 1. Foundation of information systems<br>1.1 Definition of information systems<br>1.2 The organisation as an information processing Entity<br>1.3 The expanding roles of information systems in business and management<br>1.4 The interdisciplinary nature of the field   | 1                 | 10                   |
| 2 Information<br>2.1 Information needs in organization<br>2.2 Information costs and benefits<br>2.3 Strategic information, tactical information and operational information<br>2.4 Simon's decision making model and its managerial implications on systems design<br>2.5 Organizations as systems consisting of business processes | 1                 | 10                   |
| 3. The uses of Information systems for business operations<br>3.1 Marketing information systems<br>3.2 Manufacturing information systems<br>3.3 Human resource information systems<br>3.4 Accounting information systems<br>3.5 Financial information systems   | 1                 | 10                   |
| 4. Information systems for managerial decision making and support<br>4.1 Artificial intelligence technologies in business<br>4.2 Transaction processing systems<br>4.3 Decision support systems<br>4.4 Executive information systems  | 1                 | 15                   |
| 5 Basic concepts of systems development life-cycle<br>5.1 Systems analysis, design, and development<br>5.2 Systems implementation<br>5.3 Systems evaluation<br>5.4 Systems maintenance  | 1                 | 15                   |
| <b>Total number of hours</b>  |                   | 60                   |