City University of Hong Kong

**Information on a Course
offered by Department of MBE
with effect from Summer 2014**

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Part I

Course Title: **Enterprise Technology and Management**

Course Code: **MBE5011**

Course Duration: **One Semester**

No. of Credit Units: **3**

Level: **P5**

Medium of Instruction: **English**

Prerequisites: **Nil**

Precursors: **Nil**

Equivalent Courses: **MEEM5011 Enterprise Strategy and Technology**

Exclusive Courses: **Nil**

Note: Students may repeat a course, or an equivalent course, to improve course grade only if the previous course grade obtained is C or below.

Part II

1.   Course Aims:

The course aims to develop an understanding of the system-level technology and management in setting up enterprise systems for both engineering and service industries.
Upon completing the course, students should be able to:
- Apply technologies to generate creative ethical solutions in setting up business goals and appropriate strategies that turn a dream into a business success ;
- Manage and apply scientific methods for the design, implementation and operation an enterprise for better value creation; and
- Understand the technological integration of applying the principles and techniques to serve the needs of modern enterprises.

2. Course Intended Learning Outcomes (CILOs)

Upon successful completion of this course, students should be able to:

No.	CILOs	Weighting* (if applicable)
1	**Explain** the design concepts and the operations of an enterprise system for a business success	1
2	**Understand** the scientific methods and managerial techniques to customize those generic concepts in meeting the needs of particular requirements	2
3	**Identify** the strategies in satisfying a set of given requirements to an enterprise	3
4	**Design** an Apply scientific techniques and methods to generate creative ethical solutions in setting up business goals and strategies that turn a dream into a business success	4

*Weighting ranging from 1,2,3 to indicate the relative level of importance in an ascending order.

3. Teaching and Learning Activities (TLAs)

(Indicative of likely activities and tasks designed to facilitate students' achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)

Activity Type	Timetabled Activity (Hours per week)
Lecture/Tutorial Mix	Lecture mixed with tutorial (3)

CILO No.	Large class Activities	Group work Activities	Individual work Activities	Total Hours
	Lecture	Tutorial	(Self study)	L+T (+S)
CILO 1	3	1.5	(2.5)	4.5 (+ 2.5)
CILO 2	5	2.5	(4.5)	7.5 (+ 4.5)
CILO 3	8	4	(6)	12 (+ 6)
CILO 4	10	5	(7)	15 (+ 7)
Total	26	13	(20)	**39** (+ 20)

Large class activities:
Lectures on the topics of the keyword syllabus

Group work activities
Group projects are given to students for the investigation in relation to the CILOs. Students will discuss the projects during the tutorial period. The group assessment is based on the group presentation and the peer assessment.

Individual work activities

Students are required to carry out self study on webs and search appropriate information/data in conjunction with the lecturing materials to accomplish a set of given requirements. The work of the self study will be presented as an individual report for assessment.

4. Assessment Tasks/Activities (ATs)

(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)

Assessment Tasks / ILOs	Group presentation & peer assessment	Individual report	Examination (2 hrs)	Total (%)
CILO 1	2	2	7	11
CILO 2	3	3	10	16
CILO 3	7.5	7.5	15	30
CILO 4	12.5	12.5	18	43
Total (%)	25	25	50	100

Group presentation & peer assessment: 25% Marks
20% of the marks is based on the presentation and 5% is based on the peer assessment.

Individual report: 25% Marks
20% of the marks is based on the accomplishment of satisfying the given requirements and 5% is based on the self study of webs.

Examination: 50% Marks
2 hours.

For a student to pass the course, at least 30% of the maximum mark for the examination should be obtained.

5. Grading of Student Achievement:

To reflect the ILOs listed above, the coursework and the final exam will be designed in ways which require the students to demonstrate their understanding of each topic and to solve a specific problem by applying their knowledge in an integrative manner. Grading will be based on the students' ability to demonstrate their skills convincingly.

Grade Table

Letter Grade	Grade Point	Grade Definitions
A+ A A-	4.3 4.0 3.7	Excellent
B+ B B-	3.3 3.0 2.7	Good

C+ C C-	2.3 2.0 1.7	Adequate
D	1.0	Marginal
F	0.0	Failure
P	-	Pass

Please refer to the SGS's website for details.

Part III

Keyword Syllabus:

- Professional management and entrepreneurial management
- Enterprise Design and Modelling Techniques: Systematic design, SATD/IDEF, Object-Oriented Paradigm. Reconfigurability
- Approaches, concepts and techniques of open system architectures in handling the system requirements, design and implementation of setting up an enterprise system
- Team work. Cases studies. Group presentation. Mini-project

Recommended Reading:

J M Myerson "Enterprise Systems Integration", 2nd Edition, Auerbach Publications, A CRC Press Company, Washington, D.C.

P. Schimitzek "The Efficient Enterprise" St. Lucie Press, A CRC Press Company, Washington, D.C.

IEEE Transactions on "Engineering Management"

"Engineering Management Journal" published by the Institution Engineering and Technology, London, UK.

ESPRIT Consortium AMICE (Eds.). "Research reports: CIM-OSA", 2nd, revised and extended edition, Springer-Veriag.