

Course Syllabus

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| 1. Program of Study | Bachelor of Business Administration Program |
| Faculty/Institute/College | Mahidol University International College |
| 2. Course Code | ICIS 482 |
| Course Title | Systems Analysis and Design |
| 3. Number of Credits | 4 (Lecture/Lab) (4-0-8) |
| 4. Prerequisite(s) | ICIS 383, ICIS 384, ICIS 389 |
| 5. Type of Course | Required Course |
| 6. Trimester / Academic Year | Second, Third Trimester/2007-2008 |
| 7. Course Conditions | 20-40 students |
- 8. Course Description**
An introduction to information systems development. Topics include the systems analyst, the system development life cycle, methodologies, development technology, systems planning, project management, systems analysis, systems design, systems implementation and systems support.
- 9. Course Objective(s)**
After successful completion of this course, students will be able to
- 9.1 To present a practical approach to systems analysis and design using a blend of traditional development with current technologies.
 - 9.2 To define and describe in detail the five phases of the systems development life cycle (SDLC); systems planning, systems Analysis, systems design, systems implementation, and systems operation and support.
 - 9.3 To give students an in-depth understanding of how information technology (IT) supports operational and business requirements.
 - 9.4 To teach real world systems analysis and design skill in the context of solving realistic problems and present practical guidelines and tips for career success.

10. Course Outline

Week	Course Outline				Instructor
	Topics	Lecture	Lab	Self-Study	
1	Introduction to Systems Analysis Design and Systems Development Life Cycle (SDLC)	4	0	8	SAP
2	The importance of Strategic Planning Systems Analysis Phase Overview	4	0	8	SAP
3	Data & Process Modeling and Data Flow Diagrams Data Dictionary and Process Description tools	4	0	8	SAP
4	Object Modeling, object oriented terms, and concepts Prototyping and Designing	4	0	8	SAP
5	Using Codes and Review	4	0	8	SAP
6	User Interface, Input, and Output Design Output Design Issues	4	0	8	SAP
7	Data Design Concepts Database Models	4	0	8	SAP
8	Application Architecture, Design Checklist Application Development, Quality Assurance	4	0	8	SAP
9	Object Oriented Application, development and documentation Operational and test Environments, training, data conversion	4	0	8	SAP
10	System Operation and Support, User support activities	4	0	8	SAP
11	Maintenance Project Presentation and conclusion	4	0	8	SAP
	Total	44	0	88	

11. Teaching Method(s)

Lectures and discuss

Field trip
Guest speakers

12. Teaching Media

White Board
A Notebook Computer
Power Point Slides
A LCD projector

13. Measurement and Evaluation of Student Achievement

Students achievement is measured and evaluated by

- 13.1 The ability to present a practical approach to systems analysis and design using a blend of traditional development with current technologies.
- 13.2 The ability to define and describe in detail the five phases of the systems development life cycle (SDLC); systems planning, systems Analysis, systems design, systems implementation, and systems operation and support.
- 13.3 The ability to understand in-depth how information technology (IT) supports operational and business requirements.
- 13.4 The ability to understand real world systems analysis and design skill in the context of solving realistic problems and present practical guidelines and tips for career success.

Student's achievement will be graded according to the faculty and university standard using the symbols: A, B+, B, C+, C, D+, D, and F.

Student must have attended at least 80% of the total class hours of this course.

Ratio of mark

1. Midterm	30%
2. Final	30%
3. Group research and presentation	25%
4. In-class assignments	10%
5. Participations	5%

14. Course Evaluation

- 14.1 Students' achievement as indicated in number 13 above.
- 14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. Reference(s)

Hoffer, J.A, Joey F. George and Joseph S. Valacich. **Modern Systems Analysis & Design**, 3rd Edition, Prentice Hall.

16. Instructor(s)

Sattar Puangpathanachai

17. Course Coordinator

Program Director of Information Systems Major