

APPENDICES

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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Appendix A

Modern Management and Information Technology (MMIT) curriculum (Year 2006)

Name of the Curriculum: Bachelor of Arts Program in Modern Management and Information

Technology

Name of the Degree: (Full) Bachelor of Arts (Modern Management and Information
Technology)

(Abbr.) B.A. (Modern Management and Information Technology)

1. General Education		33	Credits
1.1 Social Sciences		6	Credits
159101 SAGE 101	Fundamentals of Sociology and Anthropology	3	Credits
751100 ECON 100	General Economics	3	Credits
1.2 Humanities		6	Credits
013103 PSY 103	General Psychology		
or 011157 PHIL 157	Social Philosophy	3	Credits
050100 HUGE 100	Usage of the Thai Language	3	Credits
1.3 Language and Communication		12	Credits
001103 ENGL 103	Foundation English I	3	Credits
001104 ENGL 104	Foundation English II	3	Credits
001203 ENGL 203	English for Academic Purpose	3	Credits
001206 ENGL 206	English for Humanities and Social Sciences	3	Credits
1.4 Science and Mathematics		9	Credits
201100 SC 100	Integrated Science	3	Credits
206100 MATH 100	Survey of Mathematics	3	Credits
208100 STAT 100	Introduction to Statistical Concepts	3	Credits
2. Field of Specialization: a minimum of		93	Credits
2.1 Core Courses		24	Credits
157101 LAW 101	Introduction to Law	3	Credits
174201 CMT 201	Community Enterprise	3	Credits
255342 IE 342	Industrial Organization And Production Management	3	Credits
701101 ACC 101	Elementary Accounting I	3	Credits
703103 MGMT 103	Introduction to Entrepreneurship and Business	3	Credits
703301 MGMT 301	Business Ethics	3	Credits
954140 INX 140	Information and Communication Technology	3	Credits
2.2 Major: a minimum of		69	Credits
Plan I Co-operative Education			
2.2.1 Required Courses		33	Credits
157227 LAW 227	Commercial Law I	3	Credits
157321 LAW 321	Labor Law	3	Credits

255323	IE	323	Introduction to Quality Assurance	3	Credits
703202	MGMT	202	Principles of Management	3	Credits
705211	MKTG	211	Marketing Principles	3	Credits
954243	INX	243	Rapid Application Development	3	Credits
954380	INX	380	Co-operative Education I	3	Credits
954481	INX	481	Co-operative Education II	6	Credits
954482	INX	482	Co-operative Education III	6	Credits

2.2.2 Major Elective: a minimum of 36 Credits

Select from the following courses

Information Technology Fields

954241	INX	241	Computer Programming	3	Credits
954242	INX	242	Web Programming	3	Credits
954260	INX	260	Knowledge Management System	3	Credits
954341	INX	341	Structural Analysis and Design	3	Credits
954342	INX	342	Data Management	3	Credits
954441	INX	441	E-Commerce	3	Credits
954443	INX	443	Multimedia Programming	3	Credits
954460	INX	460	Introduction to Manufacturing	3	Credits
954491	INX	491	Selected Topics In Modern Management And Information Technology	3	Credits

Industrial Field

253300	ENV	300	Introduction to Environmental Management	3	Credits
255335	IE	335	Organization Safety	3	Credits

Social Sciences and Business Administration Fields

159346	SA	346	Urbanization	3	Credits
160413	SOC	413	Industry and Labor	3	Credits
160472	SOC	472	Industrial Sociology	3	Credits
702100	FINA	100	Introduction to Entrepreneurial Finance	3	Credits
703331	MGMT	331	Human Resource Management	3	Credits
703431	MGMT	431	Human Resource Development in Business	3	Credits

Plan II Independent Study

2.2.1 Required Courses 24 Credits

157227	LAW	227	Commercial Law I	3	Credits
157321	Law	321	Labor Law	3	Credits
255323	IE	323	Introduction to Quality Assurance	3	Credits
703202	MGMT	202	Principles of Management	3	Credits
705211	MGMT	211	Marketing Principles	3	Credits
954243	INX	243	Rapid Application Development	3	Credits
954389	INX	389	Job Training	3	Credits
954499	INX	499	Independent Study	3	Credits

2.2.2 Major Elective: a minimum of 45 Credits

Select from the following courses

Information Technology Fields

954241	INX	241	Computer Programming	3	Credits
954242	INX	242	Web Programming	3	Credits
954260	INX	260	Knowledge Management System	3	Credits
954341	INX	341	Structural Analysis and Design	3	Credits
954342	INX	342	Data Management	3	Credits
954441	INX	441	E-Commerce	3	Credits
954443	INX	443	Multimedia Programming	3	Credits
954460	INX	460	Introduction to Manufacturing	3	Credits
954491	INX	491	Selected Topics in Modern Management And Information Technology	3	Credits

Industrial Fields

253300	ENV	300	Introduction to Environmental Management	3	Credits
255335	IE	335	Organization Safety	3	Credits

Social Sciences and Business Administration Fields

159346	SA	346	Urbanization	3	Credits
160413	SOC	413	Industry and Labor	3	Credits
160472	SOC	472	Industrial Sociology	3	Credits
702100	FINA	100	Introduction to Entrepreneurial Finance	3	Credits
703331	MGMT	331	Human Resource Management	3	Credits
703406	MGMT	406	Office Management	3	Credits
703431	MGMT	431	Human Resource Development in Business	3	Credits

2.2.3 Of all major courses (2.2.1 and 2.2.2), at least 36 credits from 300-400 level must be completed; and out of these 36 credits must be included at least 18 credits of 400 level.

3. Free Elective: a minimum of 6 Credits
At least 6 credits of free elective courses, taken outside the major and minor (if any) fields are required.

4. Total: a minimum of 132 Credits

**Recommend Study Program Leading to the B.A.
(Modern Management and Information Technology)**

First Year**FIRST SEMESTER**

Course Code			Credits	
001103	ENGL	103	Foundation English I	3
159101	SAGE	101	Fundamentals of Sociology and Anthropology	3
050100	HUGE	100	Usage of the Thai Language	3
201100	SC	100	Integrated Science	3
954140	INX	140	Information Technology Literacy	3
			Total	<u>15</u>

SECOND SEMESTER

Course Code			Credits	
001104	ENGL	104	Foundation English II	3
013103	PSY	103	General Psychology	3
Or 011157	PHIL	157	Social Philosophy	3
206100	MATH	100	Survey of Mathematics	3
751100	ECON	100	General Economics	3
954141	INX	141	Information and Communication Technology	3
			Total	<u>15</u>

Second Year

FIRST SEMESTER

Course Code				Credits
001203	ENGL	203	English for Academic Purpose	3
157101	LAW	101	Introduction to Law	3
208100	STAT	100	Introduction to Statistical Concepts	3
701101	ACC	101	Elementary Accounting I	3
703103	MGMT	103	Introduction to Entrepreneurship and Business	3
954243	INX	243	Rapid Application Development	3
Total				<u>18</u>

SECOND SEMESTER

Course Code				Credit
001206	ENGL	206	English for Humanities and Sciences	3
157227	LAW	227	Commercial Law I	3
157321	LAW	321	Labor Law	3
174201	CMT	201	Community Enterprise	3
703202	MGMT	202	Principles and Management	3
705211	MKTG	211	Marketing Principles	3
Total				<u>18</u>

Third Year (PLAN I)

FIRST SEMESTER

Course Code				Credits
255342	IE	342	Industrial Organization And Production Management	3
703301	MGMT	301	Business Ethics	3
			Major Electives	12
Total				<u>18</u>

SECOND SEMESTER

Course Code				Credit
255323	IE	323	Introduction to Quality Assurance	3
954380	INX	380	Co-operative Education I	3
			Major Electives	12
Total				<u>18</u>

Third Year (PLAN II)

FIRST SEMESTER

Course Code				Credits
255342	IE	342	Industrial Organization And Production Management	3
703301	MGMT	301	Business Ethics	3
			Major Electives	12
Total				<u>18</u>

SECOND SEMESTER

Course Code				Credits
255323	IE	323	Introduction to Quality Assurance	3
			Major Elective	15
Total				<u>18</u>

**Fourth Year
(PLAN I)**

FIRST SEMESTER

Course Code			Credits
954481 INX	481	Co-Operative Education II	6
		Major Electives	6
		Free Elective	3
		Total	<u>15</u>

SECOND SEMESTER

Course Code			Credits
954482 INX	482	Co-Operative Education III	6
		Major Electives	6
		Free Elective	3
		Total	<u>15</u>

**Fourth Year
(PLAN II)**

FIRST SEMESTER

Course Code			Credits
954389 INX	389	Job Training	3
		Major Elective	9
		Free Elective	3
		Total	<u>15</u>

SECOND SEMESTER

Course Code			Credits
954499 INX	499	Independent Study	3
		Major Elective	9
		Free Elective	3
		Total	<u>15</u>

Appendix B

Questionnaire for competencies gap analysis



Questionnaire: The competency requirements of industrial sectors
from Chiang Mai University's new graduates

Part 1 General Information about company

1.1 Company name.....
 Address.....
 Telephone..... Fax.....
 E-mail..... Website.....

1.2 Type of business/manufacture.....

1.3 Age of company (year).....

1.4 Number of employees.....

1.5 Responder Name..... Position.....
 Department.....
 Number of working year.....

Part 2 Competencies requirements from new university graduates

Please mark x in the appropriate using the rating scale below which reflects the competencies level of CMU new graduates and industry demands

Rating Scale: 0 = none 1 = poor 2 = sufficient 3 = good 4 = excellent

Basic knowledge

University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Basic knowledge</i>	0	1	2	3	4
					Math					
					Science					
					Language (Thai)					
					Language (English)					

Specific knowledge

University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Specific knowledge</i>	0	1	2	3	4
					Information Technology					
					Quality Systems					
					HR management					
					Business administration					

Basic general work

University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Basic general work</i>	0	1	2	3	4
					Communication with supervisor					
					Communication with colleagues					
					Communication with subordinates					
					Coordinating across department					
					Coordinating within department					
					Team work					
					Writing a paper/report					
					Presentation to supervisor					
					Presentation to colleagues					
					Presentation in public					

Basic industrial work

University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Basic industrial work</i>	0	1	2	3	4
					5s activity					
					Kaizen activity					
					QCC activity					
					ISO9001 procedure					
					ISO14001 procedure					
					TIS18000/OHSAS18000					
					Production process					
					Production support system					
					Basic industrial accounting					
					Technology support production					

Workplace competencies












University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Workplace</i>	0	1	2	3	4
					Work overview understanding					
					Work process understanding					
					Work improvement capability					
					Planning capability					
					Follow plan capability					
					Job assessment capability					
					Identify cause of problem					
					Identify people related problem					
					Problem solving					
					Theory adaptation					

Behavioral competencies

University provides					Competencies	Industry needs				
0	1	2	3	4	<i>Behavioral</i>	0	1	2	3	4
					Responsibility					
					Enthusiasm					
					Willingness					
					Leadership					
					Dare to propose opinion					
					Punctual					
					Adaptability with company rules					
					Adaptability with colleagues					
					Patience (under pressure)					
					Patience (working environment)					

Appendix C

The EU Experts of ETHICS-FED Project

Work package	Title	Main activities	EU experts
WP1	PROJECT MANAGEMENT TEAM	Management, To make links with different projects	  Asst. Prof. Dr. Michel Le Nir Prof. Dr. Ulrich Zömmmer
WP2	METHODOLOGY AND REFERENCE MODEL	Competency model, Review of training program contents	  Dr. Paul Rousset Prof. Rudolf Mann
WP3	COOPERATIVE EDUCATION FRAMING	Cooperative education expertise transfer, Creating appropriate tools	 Asst. Prof. Dr. Laurent Veillard
WP4	NEW TEACHING MODULES	EU regulations, norms and standards, modern management, supply chain management, and enterprise resources planning	  Assoc. Prof. Gilles Neubert Prof. Dr. Thomas Haring   Dr. Ridha Derrouiche Prof. Dr. Michael Bungert
WP5	FOLLOW-UP SYSTEM FOR MMIT GRADUATES	Career path of students, Market trends, Analyze of competencies requested	 Asst. Prof. Dr. Michel Le Nir
WP6	DISSEMINATION	Documents: minutes, reports, WEB site, KM, Cross links with others projects	 Dominique Manalt

Appendix D

Student assessment and report book

D.1 Student assessment book



MMIT Cooperative Education Assessment Book

Student's Name	Mentor's Name
Student's ID	Company Name
Student's Position	
Advisor's name	

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Job descriptions and agreement on Cooperative education

Starting date:

Company Mentor

Company's name:

Name-Surname:

Job position:

Department:

Telephone no.:

Fax no.:

E-mail:

University Advisor

Name-Surname:

Telephone no.:

Fax no.:

E-mail:

Student

Name-Surname:

Student ID:

Address:

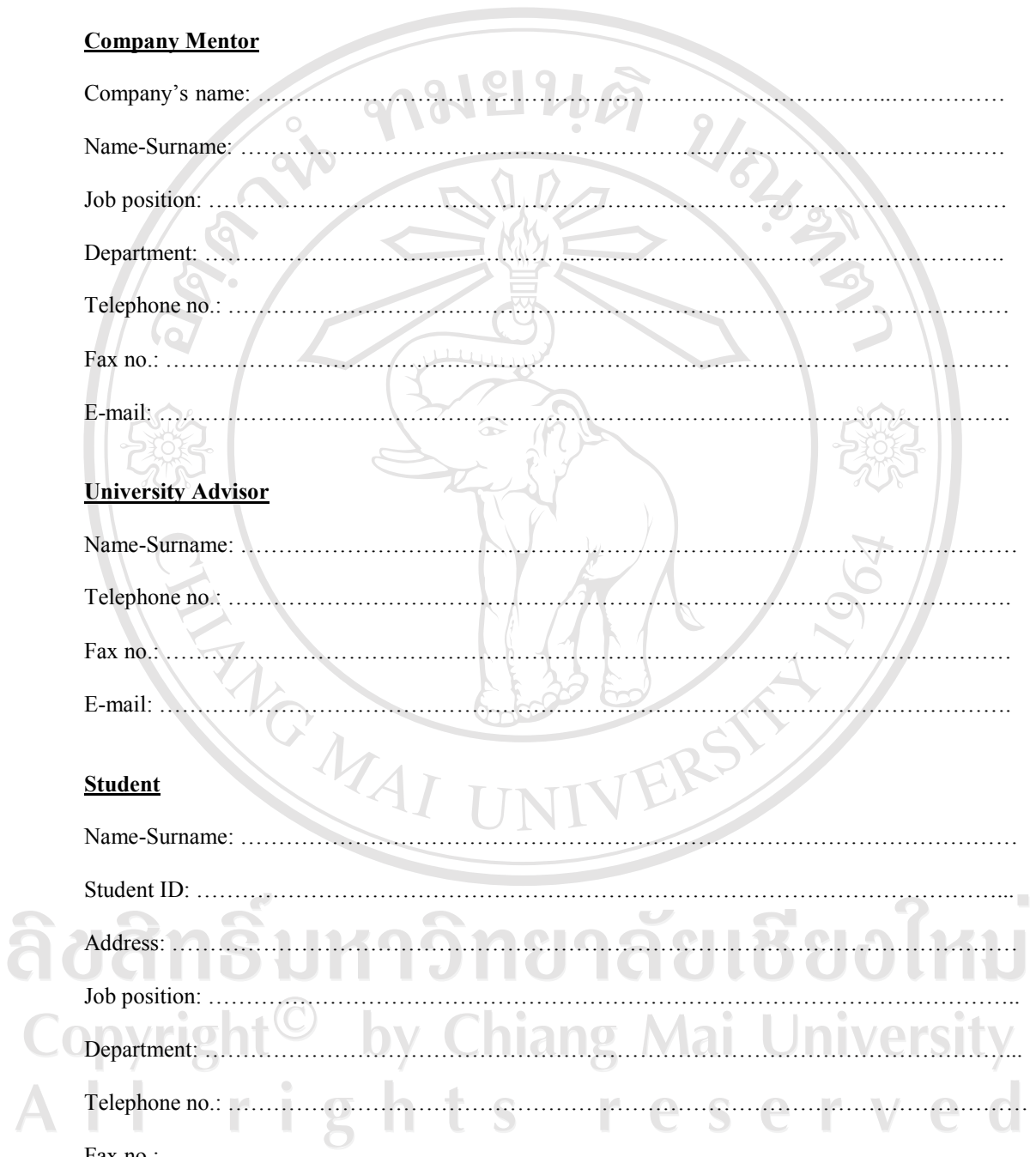
Job position:

Department:

Telephone no.:

Fax no.:

E-mail:



1. Job descriptions

.....
.....
.....

2. Job details

.....
.....
.....

3. Student's expectation

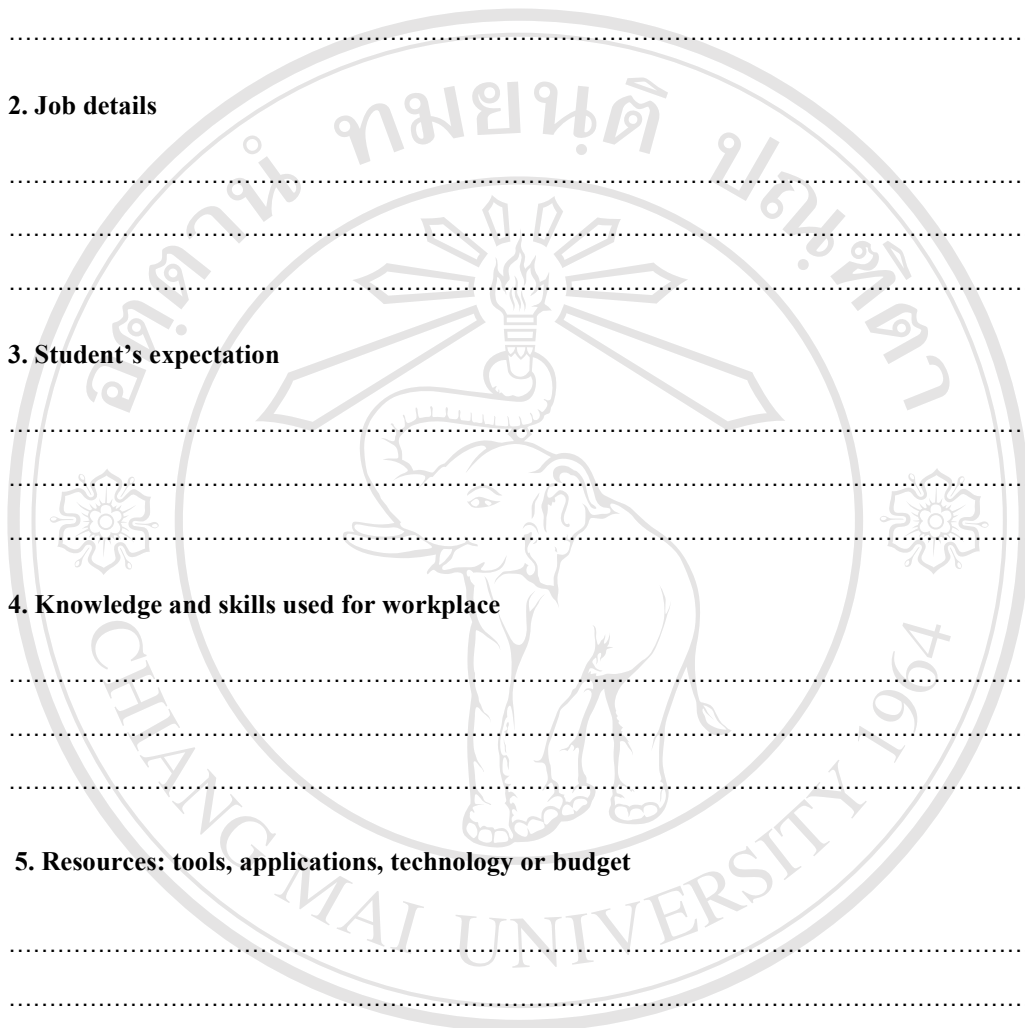
.....
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4. Knowledge and skills used for workplace

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5. Resources: tools, applications, technology or budget

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(Student's signature)

(Advisor's signature)

(Mentor's signature)

dd/mm/yy

2-3 Months Assessment

Month/Year:

Student's name

Adviser's name.....

Mentor's name

Level of Competencies:

1 = Unsatisfactory 2 = Needs improvement 3 = Good 4 = Excellence

Objective	Results
Plan	
Additional	

Overall assessment level.....

Comments:.....

Student presentation

Presentation	1	2	3	4
• Student can clearly identified the main issues				
• Student presents information in logical, interesting sequence which audience can follow with interest				
• Student demonstrates clear understanding of the material presented				
• Student maintains eye contact with audience, seldom read				
• Student presents with good pronunciation with clear voice so all audience can hear without shouting or mumbling				
• Student leads a discussions				

Behavioral competencies assessment

1. Enthusiasm / Pay attention

.....

Grade

2. Punctual and shows responsibilities on assigned tasks

.....

Grade

3. Workplace adjustment and teamwork

.....

Grade

4. Student can conduct themselves in good manner

.....

Grade

5. Good Communication skill

.....
.....

Grade

6. Assertiveness and listening skill

.....
.....

Grade

7. Maturity and tolerant

.....
.....

Grade

Total grade.....

Work Performance competencies assessment

1. Learning and understanding

.....
.....

Grade

2. Planning capability and management skill

.....
.....

Grade

3. Apply knowledge to work

.....
.....

Grade

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4. Creativity for work improvement

.....
.....

Grade

5. Ability to apply tool / approach to analyze and resolve problem

.....
.....

Grade

6. Follows work instruction

.....
.....

Grade

7. Ability to handle emergent problems

.....
.....

Grade

Total grade.....

.....

(Student's signature)

(Advisor's signature)

(Mentor's signature)

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dd/mm/yy

D.2 Student report book



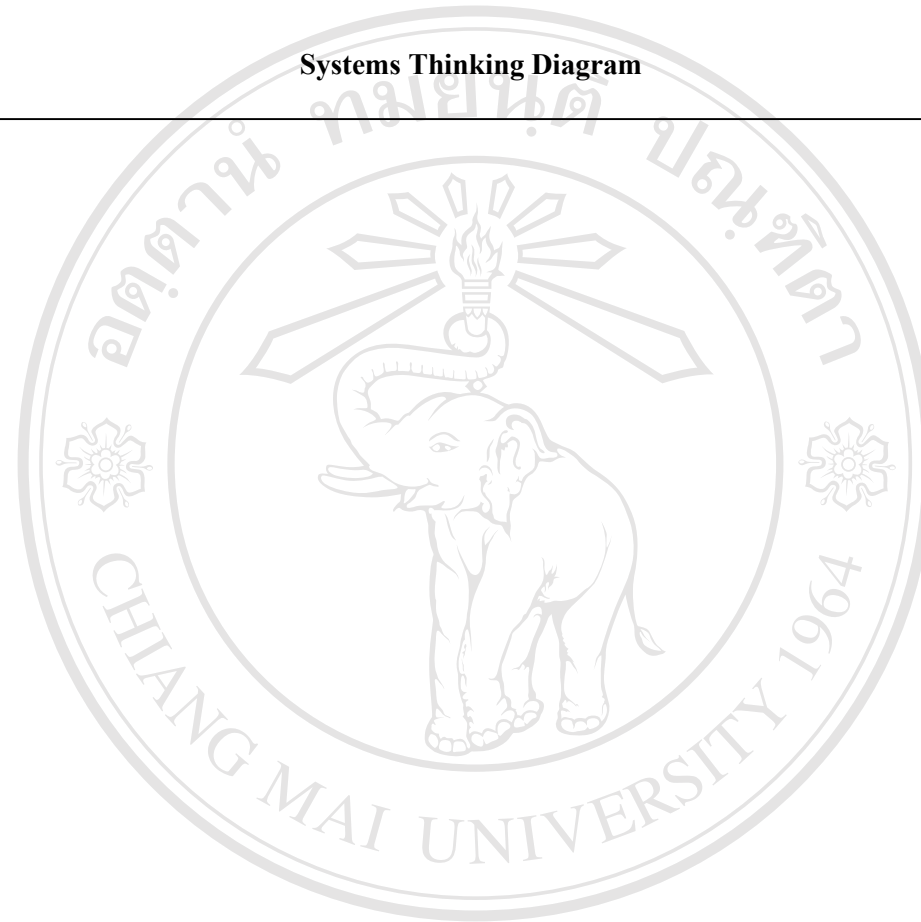
Cooperative Education Report Book

Student's Name
Student ID
Student position

Mentor's Name
Company's Name

Advisor's Name

Systems Thinking Diagram



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Daily Report

Student's name.....

Student's ID.....

Date/Month/Year.....

Activities description

Problems and difficulties

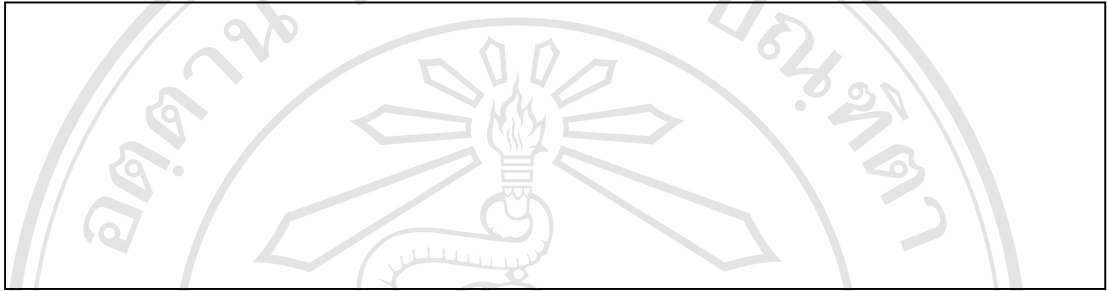
Weekly / Monthly Report

Student's name.....

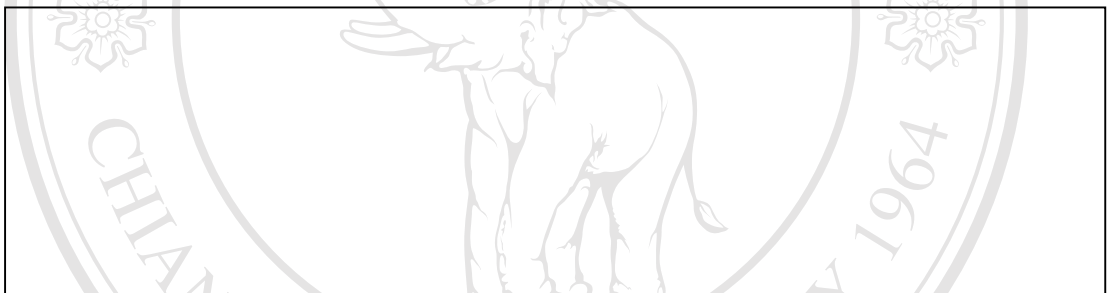
Student's ID.....

Week/Month.....

What did you learn and get from the workplace?



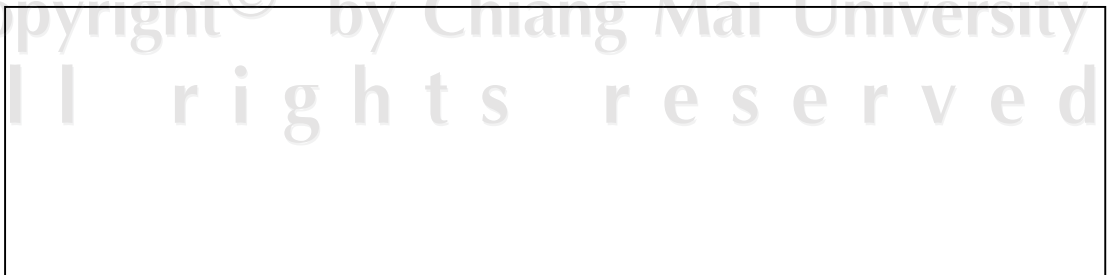
What are your problems and difficulties?



What have you already solved and How?



What are the problems which are not resolved and Why?



What will you plan to do next?

Mentor's suggestion

..... Mentor's signature

Advisor's suggestion

..... Advisor's signature

Appendix E

Questionnaire of the 2nd batch

E.1 Questionnaire for company mentor

Company mentor's name.....position.....

Company's name.....No. of working year.....

Student's name.....position.....

No. of working period.....

1. Student has sufficient knowledge/skill before coming to work in the company

Yes

No

If no, what knowledge/skills are required:.....

2. How the MMIT co-op program affected student behaviors and work performance?

Behavior

No.	Topics	very worse	worse	no effect	better	very better
1	Enthusiasm					
2	Sense of responsibility					
3	Adaptability					
4	Manner					
5	Communication					
6	Leadership					
7	Patience					

Work performance

No.	Topics	very worse	worse	no effect	better	very better
1	Learning & Understanding					
2	Planning & Managing					
3	Knowledge application					
4	Creativity					
5	Problem solving					
6	Following work instructions					
7	Handling emergent problems					

3. After co-op apprenticeship, which student competency has improve the most? Why?

.....

4. Suggestions about MMIT co-op program

.....

E.2 Questionnaire for co-op student

Student's name.....position.....

No. of working period.....

Company's name.....

1. What is your job description?
.....
.....
2. What are the problems when you first start work in a company?
.....
.....
3. How the MMIT co-op program affected your behavior and work performance?

Behavior

No.	Topics	very worse	worse	no effect	better	very better
1	Enthusiasm					
2	Sense of responsibility					
3	Adaptability					
4	Manner					
5	Communication					
6	Leadership					
7	Patience					

Work performance

No.	Topics	very worse	worse	no effect	better	very better
1	Learning & Understanding					
2	Planning & Managing					
3	Knowledge application					
4	Creativity					
5	Problem solving					
6	Following work instructions					
7	Handling emergent problems					

5. After co-op apprenticeship, which competency do you think has improved the most? Why?
.....
.....
6. What knowledge/skills do you still require? Why?
.....
.....
7. Are you expected to get a job in the same position/career of co-op apprenticeship? Why?
.....
.....
8. Suggestions about the MMIT co-op program
.....
.....
.....

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Appendix F

Documents for PPP activities of MMIT

F.1 Guideline for finding an interesting job (job fair) activity

1. Please provide the organization profile you are interested in:
 - 1.1. Name of the organization
 - 1.2. Nationality of the organization
 - 1.3. Products, and/or services
 - 1.4. Location of organization's headquarters
 - 1.5. Number of countries where the organization operates
 - 1.6. Types of customers
 - 1.7. Number of employees
 - 1.8. Awards/Standard received
2. Why are you interested in working with this organization?
3. Position you are interested in
 - 3.1. Position
 - 3.2. Salary
 - 3.3. Qualifications
4. To work in your position of interest, what knowledge and skills do you need to improve?
5. How will you improve your knowledge and skills to meet those requirements?
6. What are the steps and document(s) required in applying for a position with this company such as interview and resume?
7. What have you learned from this activity?
8. Suggestions

F.2 Guideline for site visit activity

1. Organization name in both Thai and English
2. Organization mission and vision
3. Operational structure of the organization, including main divisions, operating companies, subsidiaries, and joint ventures
4. Location of organization's headquarters
5. Address in other city or countries where the organization operates
6. Nature of ownership, legal form, and outsource
7. Markets served and types of customers
8. Primary brands, products, and/or services
9. Technology applications
10. Raw materials used
11. The nature of its role in providing these products and services, and the degree to which it utilizes outsourcing
12. Size of organization
 - 12.1 Number of employees
 - 12.2 Total capitalization, assets, debt and equity
 - 12.3 Net sales (for private sector organizations) net revenues (for public sector organizations)
 - 12.4 Quantity of products or services provided
 - 12.5 Significant changes during the reporting period regarding size, structure, or ownership including: The location of, or changes in operations, including facility openings, closings, and expansions; and changes in the share capital structure and other capital formation, maintenance, and alteration operations (for private sector organizations)
13. Awards received
14. What job positions are available in these **three** different areas: Human Resources Management and Development, Quality System Management, and Information Technology Management?
15. What Information and Communication Technology (ICT) and applications are being implemented in these three areas?
16. What have you learned from this activity?
17. Suggestions

Knowledge and experience gain from study in 1st and 2nd year

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2

8. Work experiences

Periods		Places	Positions	Job details
Since	Until			

Knowledge and experience gain from work

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3

9. Training experiences

Periods		Topics	Host organizations
Since	Until		

Knowledge and experience gain from training

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4

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10. Languages abilities

Languages	Listening			Speaking			Reading			Writing		
	Excel.	Good	Fair	Excel.	Good	Fair	Excel.	Good	Fair	Excel.	Good	Fair
English												
Japanese												
Chinese												
Others												

5

11. Special abilities, hobbies, and other interests

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6

12. What is your interest job area?

- Human Resources Management
- Quality System Management
- Information Technology Management

Reason:

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7

13. Reason to participate in MMIT co-op program

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(Student's signature)

CURRICULUM VITAE

Name Mr. Worawit Janchai

Date of Birth 23rd May, 1978

Education Background

- 1999 Bachelor degree of Applied Science, Applied Statistics,
King Mongkut's University of Technology North Bangkok,
Bangkok, Thailand
- 2002 Master degree of Engineering, Industrial Management
Engineering, King Mongkut's University of Technology
North Bangkok, Bangkok, Thailand

Professional Position

2002-2003: Thai-French Innovation Center, Bangkok, Thailand
Position: Assistant Consultant

2006-Present: College of Arts, Media and Technology, Chiang Mai
University, Chiang Mai, Thailand

Position: Lecturer

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