

Master of Science Programme in Postharvest Technology
Postharvest Technology Chiangmai University

Plan A Type A1

1. Plan A Type A1 : normal, multidisciplinary

Degree Requirements

Course work	: none
Thesis	: 36 credits
Total	: 36 credits

2. Curriculum Structure

A. Course work	:	none
B. Thesis		36 credits
902798 GSPT798 M.S. Thesis		36 credits

C. Academic Activities

1. Student considered to possess insufficient knowledge to conduct thesis research must enroll in some additional course(s) assigned by the Graduate Program Administrative Committee or student's advisor. The enrolled course(s) will not be counted as cumulative credits.

2. A student must arrange and present a technical seminar at least once a semester.

3. A student must arrange that a full paper of thesis result is published or accepted for publication in a recognized academic journal.

D. Non-credit course

1. Graduate School requirement	- a foreign language-
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Plan A Type A2

1. Plan A Type A2 : normal, multidisciplinary

Degree Requirements

Course work : a minimum of 24 credits

Thesis : 12 credits

Total : a minimum of 36 credits

2. Curriculum Structure

A. Course work	a minimum of	24 credits
1. Graduate courses	a minimum of	24 credits
1.1 Field of concentration courses	a minimum of	24 credits
1.1.1 Required courses		12 credits
902704 GSPT704 Operation Management of Postharvest System		3 credits
902707 GSPT707 Grain Postharvest Systems		3 credits
902708 GSPT708 Postharvest Systems of Perishable Crops		3 credits
902709 GSPT709 Applied Statistics for Postharvest Technology		2 credits
902791 GSPT791 Seminar in Postharvest Technology I		1 credit
1.1.2 Elective courses	a minimum of	12 credits
1. <u>Elective course for every track</u>		
902702 GSPT702 Postharvest Engineering		3 credits
902705 GSPT705 Postharvest Laboratory		3 credits
902706 GSPT706 Field Study		1 credit
902769 GSPT769 Selected topics I		1 credit
902779 GSPT779 Selected topics II		2 credits
902789 GSPT789 Selected topics III		3 credits
902795 GSPT795 Special Problem		3 credits
and other electives courses in (902).....		

2. Durable products track

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

353713	AGRO713	Storage of Field Crop Produce	3 credits
353761	AGRO761	Seed Physiology	3 credits
353762	AGRO762	Seed Conditioning and Storage	3 credits
357712	ENT712	Insect Behavior Mechanisms	3 credits
357713	ENT713	Insect Toxicology	3 credits
357783	ENT783	Postharvest Insect Pest Management	3 credits
360722	PLP722	Storage Molds and Mycotoxins	3 credits
360751	PLP751	Seed Pathology	3 credits
360783	PLP783	Chemical Control of Plant Diseases	3 credits
366721	AGS721	Modeling and Simulation of Agricultural Systems	3 credits

3. Perishables products track

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

	202748	BIOL748	Postharvest Physiology	3 credits
<i>or</i>	359705	HORT705	Postharvest Physiology of Horticultural Crops	3 credits
	202843	BIOL843	Advances in Pomology	3 credits
<i>or</i>	359753	HORT753	Physiology of Economic Fruit Plants	3 credits
	202848	BIOL848	Postharvest Technology of Fruits	3 credits
	202849	BIOL849	Senescence and aging in plants	3 credits
	359711	HORT711	Physiology of Flowerbulbs	3 credits
	359713	HORT713	Physiology of Flowers and Ornamental Crops	3 credits
	359716	HORT716	Advanced Postharvest Physiology of Floricultural Crops	3 credits
	359723	HORT723	Physiology of Vegetables Crops I	3 credits

4. Agricultural Engineer and Agro-Industry track

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

Agro-Industry Faculty

601723	FST723	Minimally Processed Fruits and Vegetables	3 credits
604751	FE751	Fresh Produces Handling Systems	3 credits
604761	FE761	Drying Technology	3 credits

Engineering Faculty

260701	AE701	Physical Properties of Agricultural Materials	3 credits
260702	AE702	Postharvest Process Engineering	3 credits
260703	AE703	Design of Postharvest Equipment	3 credits
260704	AE704	Design and Management of Storage Structure	3 credits
263700	ENE700	Energy Resources and Energy System Technology	3 credits

5. Agricultural Economic /Management track

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

351720	AEC720	Advanced Agricultural Marketing	3 credits
351721	AEC721	Agricultural Marketing Management	3 credits
351722	AEC722	Advanced Agribusiness Management	3 credits
351723	AEC723	Financial Management for Agribusiness	3 credits
351731	AEC731	Effectiveness of Agricultural Organizations	3 credits
351742	AEC742	Advanced Research Methods for Agricultural Economics	3 credits
351743	AEC743	Operational Research for Agricultural Planning	3 credits
351769	AEC769	Selected Topics in Agricultural Economics I	1 credits
351779	AEC779	Selected Topics in Agricultural Economics II	2 credits
351789	AEC789	Selected Topics in Agricultural Economics III	3 credits

Business Administration Faculty

703731 MGMT731	Quantitative Analysis for Business	3 credits
703733 MGMT733	Business Organization and Management	3 credits
703738 MGMT738	Production and Operation Management	3 credits
703741 MGMT741	Management Information System	3 credits
703744 MGMT744	Business Research	3 credits
703745 MGMT745	Entrepreneurship: New Venture Creation	3 credits
703747 MGMT747	International Business	3 credits
705723 MKTG723	International Marketing Management	3 credits

Economy Faculty

751724 ECON724	Managerial Economics	3 credits
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1.2 Other courses - none

2. Advance undergraduate course - none

B. Thesis 12 credits

902799 GSPT799 Thesis 12 credits

C. Academic Activities

A student must arrange that a full paper of thesis result is published or accepted for publication, either in a recognized academic journal or in a proceeding of a technical conference at the national level.

D. Non-credit course

Graduate School requirement - a foreign language

Total a minimum of 36 credits

Note : Courses in the field of concentration are courses in 1.1

Plan B

Degree Requirements

Course work	:	a minimum of	30 credits
Independent Study:			6 credits
Total	:	a minimum of	6 credits

Curriculum Structure

A. Course work	a minimum of	30 credits
1. Graduate courses	a minimum of	30 credits
1.1 Field of concentration courses	a minimum of	30 credits
1.1.1 Required courses		12 credits
902704 GSPT704 Operation Management of Postharvest System		3 credits
902707 GSPT707 Grain Postharvest Systems		3 credits
902708 GSPT708 Postharvest Systems of Perishable Crops		3 credits
902709 GSPT709 Applied Statistics for Postharvest Technology		2 credits
902791 GSPT791 Seminar in Postharvest Technology I		1 credit
1.1.2 Elective courses	a minimum of	18 credits
1. Durable products track	a minimum of	3 credits

A student may select from the following courses or other courses with approval of the

Graduate Program Administrative Committee.

353713 AGRO713 Storage of Field Crop Produce	3 credits
353761 AGRO761 Seed Physiology	3 credits
353762 AGRO762 Seed Conditioning and Storage	3 credits
357712 ENT712 Insect Behavior Mechanisms	3 credits
357713 ENT713 Insect Toxicology	3 credits
357783 ENT783 Postharvest Insect Pest Management	3 credits
360722 PLP722 Storage Molds and Mycotoxins	3 credits
360751 PLP751 Seed Pathology	3 credits
360783 PLP783 Chemical Control of Plant Diseases	3 credits
366721 AGS721 Modeling and Simulation of Agricultural Systems	3 credits

2. Perishables products track a minimum of 3 credits

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

	202748 BIOL748	Postharvest Physiology	3 credits
<i>or</i>	359705 HORT705	Postharvest Physiology of Horticultural Crops	3 credits
	202843 BIOL843	Advances in Pomology	3 credits
<i>or</i>	359753 HORT753	Physiology of Economic Fruit Plants	3 credits
	202848 BIOL848	Postharvest Technology of Fruits	3 credits
	202849 BIOL849	Senescence and aging in plants	3 credits
	359711 HORT711	Physiology of Flowerbulbs	3 credits
	359713 HORT713	Physiology of Flowers and Ornamental Crops	3 credits
	359716 HORT716	Advanced Postharvest Physiology of Floricultural Crops	3 credits
	359723 HORT723	Physiology of Vegetables Crops I	3 credits

3. Agricultural Engineer and Agro-Industry track a minimum of 3 credits

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

Agro-Industry Faculty

	601723 FST723	Minimally Processed Fruits and Vegetables	3 credits
	604751 FE751	Fresh Produces Handling Systems	3 credits
	604761 FE761	Drying Technology	3 credits

Engineering Faculty

	260701 AE701	Physical Properties of Agricultural Materials	3 credits
	260702 AE702	Postharvest Process Engineering	3 credits
	260703 AE703	Design of Postharvest Equipment	3 credits
	260704 AE704	Design and Management of Storage Structure	3 credits
	263700 ENE700	Energy Resources and Energy System Technology	3 credits

4. Agricultural Economic /Management track a minimum of 3 credits

A student may select from the following courses or other courses with approval of the Graduate Program Administrative Committee.

	351720 AEC720	Advanced Agricultural Marketing	3 credits
	351721 AEC721	Agricultural Marketing Management	3 credits
	351722 AEC722	Advanced Agribusiness Management	3 credits

351723 AEC723	Financial Management for Agribusiness	3 credits
351731 AEC731	Effectiveness of Agricultural Organizations	3 credits
351742 AEC742	Advanced Research Methods for Agricultural Economics	3 credits
351743 AEC743	Operational Research for Agricultural Planning	3 credits
351769 AEC769	Selected Topics in Agricultural Economics I	1 credits
351779 AEC779	Selected Topics in Agricultural Economics II	2 credits
351789 AEC789	Selected Topics in Agricultural Economics III	3 credits

Business Administration Faculty

703731 MGMT731	Quantitative Analysis for Business	3 credits
703733 MGMT733	Business Organization and Management	3 credits
703738 MGMT738	Production and Operation Management	3 credits
703741 MGMT741	Management Information System	3 credits
703744 MGMT744	Business Research	3 credits
703745 MGMT745	Entrepreneurship: New Venture Creation	3 credits
703747 MGMT747	International Business	3 credits
705723 MKTG723	International Marketing Management	3 credits

Economy Faculty

751724 ECON724	Managerial Economics	3 credits
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1.2 Other courses - none -

B . Independent Study 6 credits

902797 GSPT797	Independent Study	6 credits
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C. Non-credit course

Graduate School requirement - a foreign language

Total a minimum of 36 credits

Note : Courses in the field of concentration are courses in 1.1

STUDY PLAN

I. Plan A Type A1

First Year

First Semester

Seminar and submission of thesis proposal		0 credit
	Total	0 credit

Second Semester

902798 GSPT798 Thesis		12 credits
Seminar and submission of a progress-report		
	Total	12 credits

Second Year

First Semester

902798 GSPT798 Thesis		12 credits
Seminar and submission of a progress-report		
	Total	12 credits

Second Semester

902798 GSPT798 Thesis		12 credits
Seminar and arrangement of complete report of thesis		
	Total	12 credits
	Grand total	36 credits

II. Plan A Type A2

First Year

First Semester

902704 GSPT704 Operation Management of Postharvest System	3 credits
902707 GSPT707 Grain Postharvest Systems	3 credits
902708 GSPT708 Postharvest Systems of Perishable Crops	3 credits
Total	9 credits

Second Semester

902709 GSPT709 Applied Statistics for Postharvest Technology	2 credits
902791 GSPT791 Seminar in Postharvest Technology I	1 credit
..... Electives	6 credits
Total	9 credits

Second Year

First Semester

902799 GSPT799 Thesis	6 credits
..... Electives	6 credits
Total	12 credits

Second Semester

902799 GSPT799 Thesis	6 credits
Total	6 credits
Grand total	36 credits

III. Plan B

First Year
First Semester

902704 GSPT704 Operation Management of Postharvest System	3 credits
902707 GSPT707 Grain Postharvest Systems	3 credits
902708 GSPT708 Postharvest Systems of Perishable Crops	3 credits
Total	9 credits

Second Semester

902709 GSPT709 Applied Statistics for Postharvest Technology	2 credits
902791 GSPT791 Seminar in Postharvest Technology I	1 credit
..... Electives	6 credits
Total	9 credits

Second Year
First Semester

..... Electives	9 credits
Total	9 credits

Second Semester

902797 GSPT797 Independent Study	6 credits
..... Electives	3 credits
Total	9 credits
Grand total	36 credits