

## II 日本の協力の経緯

### 1. 新キャンパス建設

カセサート大学は農業省の管理下から分離独立し、タイ国の農業分野に多大な貢献をしている大学である。

同大学はバンコック近郊バンケンに本部をもつが、大学の施設、機能の発展・拡充のため世銀の援助を受け、バンコック北西約80kmのカンペンセンに新キャンパスを建設した。79年9月第1期計画終了。(世銀借款15.4百万ドル、総額35.3百万ドル)

### 2. 無償資金協力

我が国には、76年より以下の施設建設の無償資金協力の要請があった。

- (1) 総合研究所及グリーンハウス
- (2) 農業普及研修センター
- (3) 土壌肥料研究センター
- (4) 農機具センター
- (5) 淡水魚業研究センター
- (6) 農業関連産業技術研究センター

このうち日本国政府は、(1)、(2)、(4)を取り上げ下記のように無償資金協力を行った。

- |                    |    |          |         |
|--------------------|----|----------|---------|
| (1) 総合研究所及びグリーンハウス | …… | 53年度13億円 | 80年6月完成 |
| (2) 農業普及研修センター     | }  | 54年度23億円 | 81年6月完成 |
| (3) 農業機械センター       |    |          |         |

### 3. 技術協力

上記施設の機能の十二分の活用、「教育する大学」から「研究を通じ教育する大学」への転換及び農業技術振興に寄与することを目的として、同3センターに対する協力が行われた。

当初カセサート大学技術協力ということで、3センター同時に行う予定であったが、施設の完成がずれることから以下の通り協力を行った。

#### (1) カセサート大学研究協力計画

R/D 昭和55年4月10日～60年4月9日

リーダー 川口桂三郎(京都大学名誉教授)55年7月25日～60年4月9日

#### (2) カセサート大学農業普及機械化計画

R/D 昭和56年7月1日～61年6月30日

(普及) 長井次雄(元京都府) 56年9月3日～61年6月30日

(機械化) 今泉七郎(農林水産省草地試験場)56年11月12日～59年3月30日

小川浄寿(元農業機械化研究所) 59年3月21日～61年6月30日

### III CLGCの概要

プロジェクトサイトであるCLGC(Central Laboratory and Greenhouse Complex)はAMC(農業機械センター)などとともにKURDIの下部機関である。

建物は日本の無償資金協力(約13億円)で建てられ、1980年6月に建設業者から大学側へ引渡された。

CLGCという名前はカセサート大学の研究に対する理念に基づいている。農学の研究では室内実験は必ず圃場と固く結び付くべきであり、その前提として実験室とグリーンハウスとは複合体として一体を為すべきだという考えによっている。現実には建設中のインフレーションによりグリーンハウスの方の建設が削られ、実験室に比べてComplexというには貧弱すぎる結果となっている。

所長の下に研究面では7研究部門と1管理部門がある。研究部門は現在下記のように固定されたものではなく、必要に応じて増減、変更ができる。

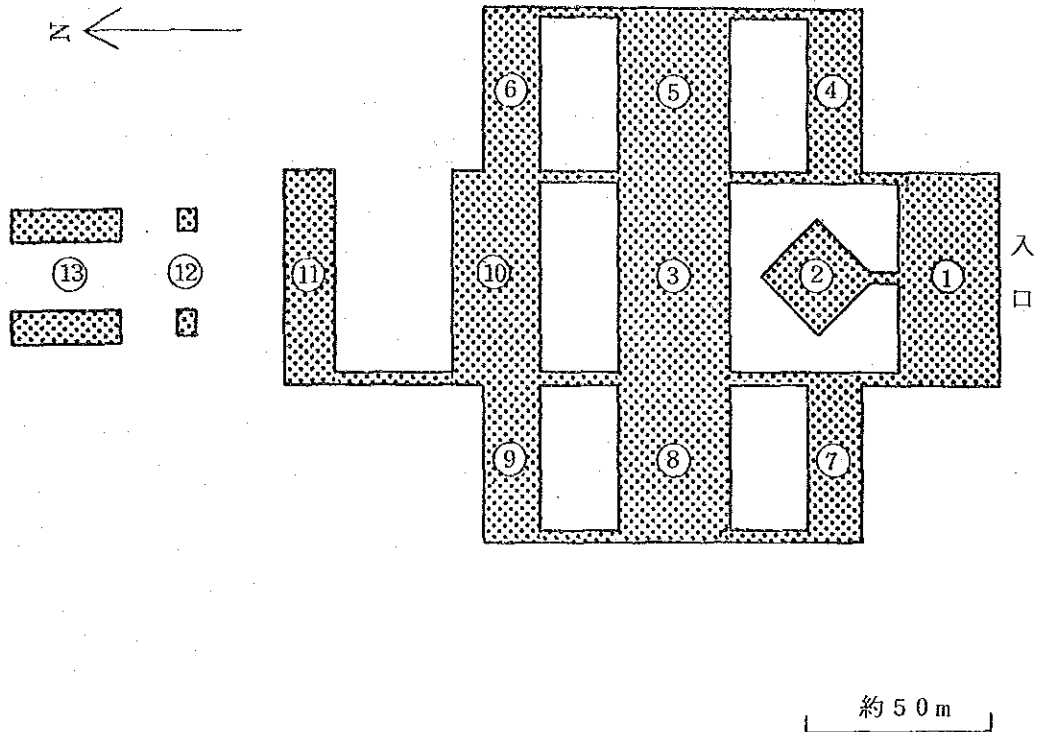
1. 生化学
2. 環境科学
3. ポスト・ハーベスト
4. 応用微生物
5. 植物防御・検疫
6. 土壌・肥料
7. 種子学

所長は学長の委嘱によってきまる。各部門の長は部門内で自治的にきめられている。

建物に関する2, 3のデータは次のようである。

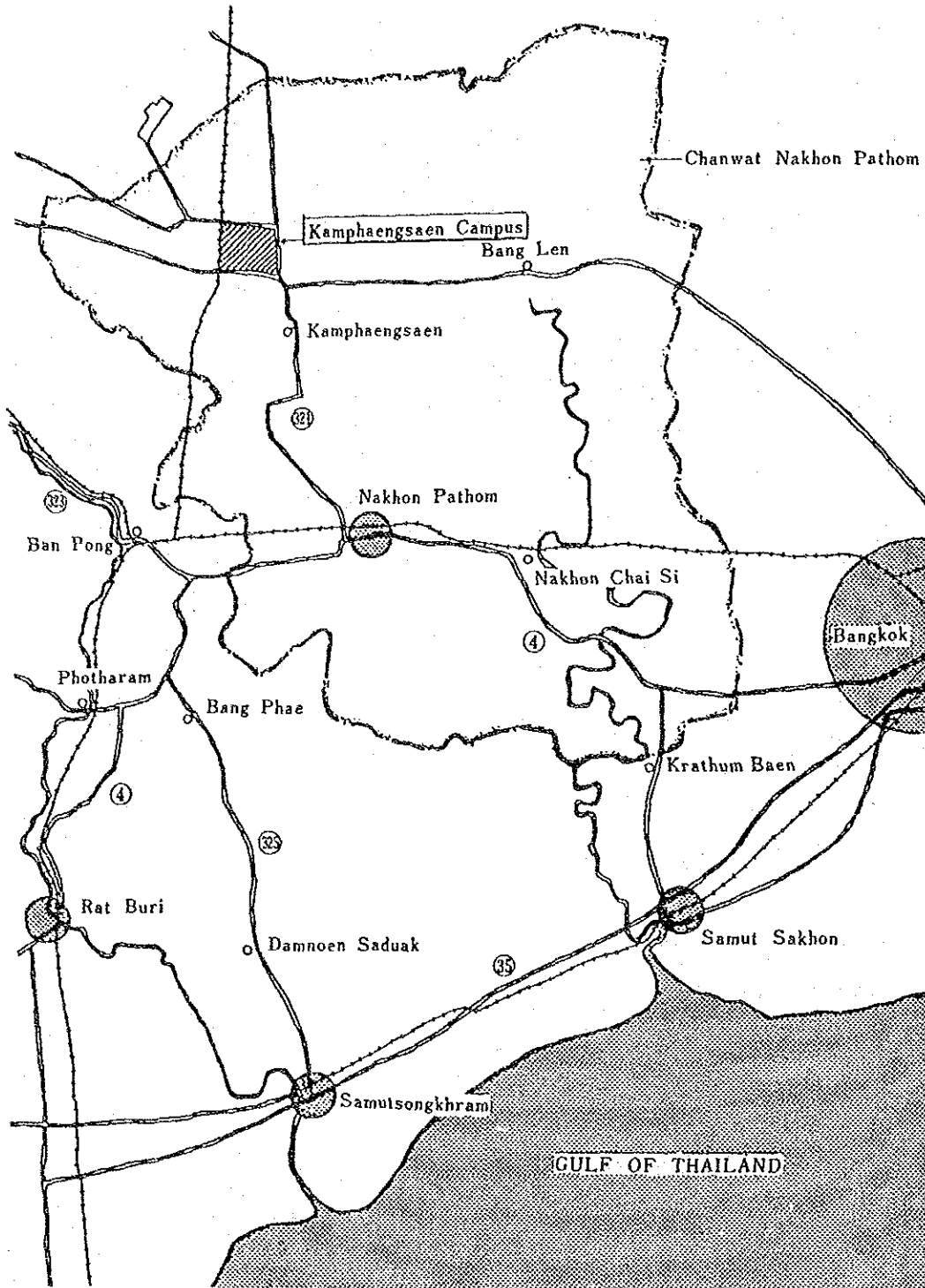
全床面積	10,293 m <sup>2</sup>
全建物面積	12,037 m <sup>2</sup>
建物の最高の高さ	7.89 m (一階建)
鉄筋コンクリート建	

CLGCの概略図



1. 事務室, 会議室, ゼミ室等
2. 図書室
3. 生化学ラボ
4. 環境科学ラボ
5. ポスト・ハーベストラボ
6. 応用微生物ラボ
7. 植物防衛・検疫ラボ
8. 土壌・肥料ラボ
9. 種子学ラボ
10. 管理室
11. 準備室
12. 制御ガラス室
13. 網室

IV プロジェクト位置図



LOCATION OF KAMPHAENSAEN CAMPUS



VI 関連報告書リスト

No	報告書名	作成月	資料番号	頁数	版	概要(チーム構成, 調査期間, 調査結果)
1.	タイ国カセサート大学施設整備計画事前調査報告	52. 8	農林52-55		A 4	無償事前調査, 有松団長他6名 52. 7. 7~52. 7. 31
2.	同上 (資料編)	"	"	134	"	"
3.	タイ国カセサート大学施設整備計画, 総合研究所及びグリーンハウス建設工事基本設計報告書	53. 2	農林75	137	"	基本設計, 有松団長他10名 52. 10. 17~52. 10. 31
4.	Preliminary Design for the Central Laboratory and Greenhouse Complex of Kasetsart University, Kamphangsaeen Campus in the Kingdom of Thailand	"	農林52-76	83	"	"
5.	タイ国カセサート大学技術協力調査報告書	53. 8	農計技JR78-06	527	"	技術協力調査, 鈴木団長他7名 53. 7. 5~53. 7. 22
6.	タイ国カセサート大学技術協力(案)について	55. 1	農開技JR80-22	70	"	長期調査, 川口調査員 54. 6. 8~54. 12. 7
7.	タイ国カセサート大学研究協力実施協議チーム調査報告書	55. 6	農開技JR80-32	112	"	実施協議, 川口団長他4名 55. 3. 31~55. 4. 11
8.	Report on Implementation Survey at Kasetsart University	56. 1	ADLJR81-10	41	"	"
9.	タイ国カセサート大学試験圃場かんがい及び圃場整備実施設計報告書	56. 1	農開畜JR81-07	80	"	実施設計, 川上団長他3名 55. 10. 30~55. 11. 11
10.	炭水化物資源からの連続アルコール醸酵についての研究報告書	57. 3		48	"	共同研究報告書, 田口専門家他3名
11.	Report of Continuous Ethanol Production by Flocculating Thai Yeast	"		63	"	"

№	報告書名	作成月	資料番号	頁数	版	概要(チーム構成, 調査期間, 調査結果)
12.	昭和57年度農林業協力プロジェクト運営指導調査報告書	58. 3	農計JR83-23	41	A 4	運営指導, 村田団長他4名 58. 2. 20~58. 2. 27
13.	タイ国カセサート大学研究計画エバリュエーション報告書	60. 3	農開畜JR85-48	96	"	エバリュエーション, 遠藤団長他4名 59. 8. 18~59. 8. 30
14.	Summarized Report for Kasetsart University Research and Development Project	60. 4		126	"	英文総合報告書, 川口リーダー他 (カセサート大学にて出版)

VI 討議議事録

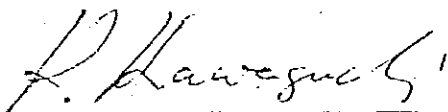
THE RECORD OF DISCUSSIONS BETWEEN  
THE JAPANESE IMPLEMENTATION SURVEY TEAM AND  
THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF THAILAND  
ON THE JAPANESE TECHNICAL COOPERATION  
FOR THE RESEARCH AND DEVELOPMENT PROJECT  
IN KASETSART UNIVERSITY

The Japanese Implementation Survey Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as JICA) and headed by Dr. Keizaburo Kawaguchi, Professor Emeritus, Kyoto University, visited Thailand from March 31 to April 11, 1980 for the purpose of working out the details of the technical cooperation program concerning the Research and Development Project in Kasetsart University, Thailand.

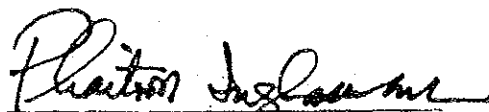
During its stay in Thailand, the Team exchanged views and had a series of discussions with the Thai authorities concerned in respect of the desirable measures to be taken by both Governments for the successful implementation of the above-mentioned Project.

As a result of the discussions, the Team and the Thai authorities concerned agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Bangkok, April 10, 1980.

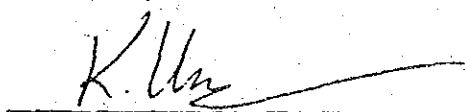


Dr. Keizaburo Kawaguchi  
Leader, Japanese Implementation  
Survey Team,  
Japan International Cooperation  
Agency



Prof. Dr. Phaitoon Ingkasuwan  
Rector, Kasetsart University

in the presence of



Mr. Kasem Unahasuan  
Deputy Director-General,  
Department of Technical and  
Economic Cooperation



## THE ATTACHED DOCUMENT

### I. COOPERATION BETWEEN THE TWO GOVERNMENTS

1. The Government of Japan and the Government of Thailand will cooperate with each other in implementing the Research and Development Project in Kasetsart University (hereinafter referred to as "the Project") for the purpose of promoting self-sufficient production of vegetable seeds and effective utilization of carbohydrates. The Project will be carried out in the facilities, of Kasetsart University, which have been established with the cooperation referred to in the Exchange of Notes dated October 4, 1978 between the two Governments.

2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

3. The Project will be carried out in close contact with the Agricultural Extension and Training Center and the Agricultural Machinery Center which will be established with the cooperation referred to in the Exchange of Notes dated July 23, 1979 between the two Governments.

### II. DISPATCH OF JAPANESE EXPERTS

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense services of the Japanese experts as listed in Annex II through the normal procedures under the Colombo Plan Technical Cooperation Scheme.

2. The Japanese experts referred to in 1. above and their families will be granted in Thailand the privileges, exemptions and benefits no less favourable than those accorded to experts of third countries working in Thailand under the Colombo Plan Technical Cooperation Scheme.

### III. PROVISION OF MACHINERY AND EQUIPMENT

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense such machinery, equipment and other materials necessary for the implementation of the Project as listed in Annex III, through the normal procedures under the Colombo Plan Technical Cooperation Scheme.

2. The articles referred to in 1. above will become the property of the Government of Thailand upon being delivered c.i.f. to the Thai authorities concerned at the ports and/or airports of disembarkation, and will be utilized exclusively for the implementation of the Project in consultation with the Japanese experts referred to in Annex II.

#### IV. TRAINING OF THAI PERSONNEL IN JAPAN

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to receive at its own expense the Thai personnel connected with the Project for technical training in Japan through the normal procedures under the Colombo Plan Technical Cooperation Scheme.

2. The Government of Thailand will take necessary measures to ensure that the knowledge and experience acquired by the Thai personnel from technical training in Japan will be utilized effectively for the implementation of the Project.

#### V. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THAILAND

1. In accordance with the laws and regulations in force in Thailand, the Government of Thailand will take necessary measures to provide at its own expense:

(1) Services of the Thai counterpart personnel and administrative personnel as listed in Annex IV;

(2) Land, buildings and facilities as listed in Annex V;

(3) Supply of replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than those provided through JICA under III above;

(4) Transportation facilities and travel allowance for the Japanese experts for the official travel within Thailand;

(5) Suitably furnished accommodations for the Japanese experts and their families.

2. In accordance with the laws and regulations in force in Thailand, the Government of Thailand will take necessary measures:

(1) To meet expenses necessary for the transportation within Thailand of the articles referred to in III above as well as for the installation, operation and maintenance thereof;

(2) To exempt customs duties, internal taxes and any other charges, imposed in Thailand on the articles referred to in III above;

(3) To meet all running expenses necessary for the implementation of the Project.

#### VI. ADMINISTRATION OF THE PROJECT

1. The Rector of Kasetsart University will be responsible for the administration and the implementation of the Project, and the Japanese experts will provide necessary technical guidance and advice for the implementation of the Project.

2. There will be close consultations between the Japanese experts and the officials concerned of the Government of Thailand for the effective implementation and smooth progress of the Project. For this purpose, a Joint Committee which decides important matters for the implementation of the Project will be established as specified in Annex VI. The Joint Committee will meet at least twice a year.

#### VII. CLAIMS AGAINST JAPANESE EXPERTS

The Government of Thailand undertakes to bear claims, if any arises, against the Japanese experts engaged in the Project resulting from, occurring in the course of, or otherwise connected with, the discharge of their official functions in Thailand except for those arising from the willful misconduct or gross negligence of the Japanese experts.

#### VIII. MUTUAL CONSULTATIONS

There will be mutual consultations between the two Governments on any major issues arising from, or in connection with, this Attached Document.

IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be five (5) years from the date of signature of the Record of Discussions.

## ANNEX I : MASTER PLAN

### 1. Objectives

The project is designed to promote agricultural research and development and to enhance research capabilities of Thai staff in Kasetsart University.

In the Project, following activities will be carried out to attain the above objectives in an effective manner.

### 2. Activities

The Project envisages research and development programs concerning:

- (1) Sweet-corn and yard-long bean seed production
  - (a) Basic cultural experiments
  - (b) Disease and insect control
  - (c) Multiplication of foundation seeds, and
  - (d) Others
  
- (2) Fermentation for energy resources
  - (a) Ethanol fermentation from sugar canes, cassava and other carbohydrates,
  - (b) Production of biogas and other energy resources from by-products of sugar industry, and
  - (c) Others including enzyme production.

Note: Details of the above activities will be worked out in due course soon after Japanese experts arrive in Thailand.

ANNEX II : JAPANESE EXPERTS

	CATEGORY	FIELD
1.	Team Leader	
2.	Experts	Vegetables Fermentation
3.	Liaison Officer	

- Notes:
1. Experts mentioned in 2. above may be dispatched in short-term assignment.
  2. Short-term experts in other fields will be dispatched as necessity arises.

ANNEX III : LIST OF THE ARTICLES

1. Equipment, machinery, instruments, tools, spare parts and other materials for laboratory and field works,
2. Fertilizers, pesticides and chemicals,
3. Audio-visual aids and related articles,
4. Vehicles,
5. Books and other necessary printed matters, and
6. Other necessary equipment and materials.

ANNEX IV : LIST OF THAI STAFF

1. Project Leader
2. Coordinator of the Project
3. Research Group Leaders
4. Researchers
5. Counterpart officials to the Japanese experts
6. Laboratory assistants
7. Clerical and service staff, and
8. Field staff and workers



ANNEX V : LIST OF LAND, BUILDINGS AND FACILITIES

1. Central Laboratory Building,
2. Green houses,
3. Store-houses for machinery and other materials,
4. Facilities for seed storage,
5. Garages,
6. Experimental fields and their incidental facilities, and
7. Other necessary land and buildings.



## Ⅷ 中間報告のためのメモ

59. 5. 5 作成

プロジェクトリーダー

川 口 桂三郎

### 報 告 内 容

#### 1. タイの国立大学の概要と特色

- (1) 建学の目的と精神
- (2) 予算, 学生数の規模 (付 1, 2)
- (3) 入学試験制度
  - a. 主体は共通試験による (10 大学) (付 3)
  - b. 地方の 3 大学は入学者の約半数は当該地方から選抜する。
  - c. 特殊の奨学金をつけた入学者あり
  - d. 短大卒業後実務経験をした者を一定数を限り 3 回生に編入学させる (教育, 普及関係 だけ)
- (4) 1970年代に入って以来の研究志向 (付 4)
- (5) 女性優位 (大学だけでなく国立, 公団等の研究機関も)

#### 2. カセサート大学の場合 (付 , 6)

- (1) 研究志向の実績
  - a. 1970年代に入って後, 世銀からの借款による教官の海外留学 (レベルアップ)  
(付 7)
  - b. 1976年に職種としての "Resercher" の設定
- (2) カムベンセンキャンパスの新設

世銀からの借款額と日本の無償等との比較 (付 8)

#### 3. プロジェクトの R/D の内容と現在までの実施状況

- (1) プロジェクトの概要 (付 9 ~ 12)
- (2) 派遣チーム (付 13 ~ 15)
- (3) 専門家, 研修員の数, 機材供与等の額 (付 16)
- (4) 専門家一覧 (付 17 ~ 19)
- (5) 研修員一覧 (付 20 ~ 21)

#### 4. 主な研究成果

- A 醱酵部門 (付 22 ~ 26)
- B 野菜部門 (付 27 ~ 35)

5. 研究成果の発表
  - A 醸酵部門(付36~39)
  - B 野菜部門(付40~46)
6. セミナー, トレーニングコース等
  - A 醸酵部門(付47)
  - B 野菜部門(付48~49)
7. CLQCの概要とその充実(付50~53)
8. CLQCのレベルアップとプロジェクトとの関係(付54)

14 国立大学予算  
(大学省所管)

付1

1.~5.は医学部を持つ

単位バーツ

	1980	1981	1982	1983
1. Mahidol	703,555,300	874,900,600	992,754,080	1,076,783,950
2. Chulalongkorn	511,651,200	702,886,400	920,952,300	967,193,800
3. Chiangmai	418,850,000	518,279,300	659,203,300	624,393,800
4. Khonkaen	486,965,500	368,424,200	423,453,800	424,729,280
5. Songkla	332,334,800	365,538,200	480,594,500	442,135,210
6. Kasetsart	248,115,110	241,629,200	336,337,500	351,610,350
7. King Mongkut	180,807,500	236,102,300	291,580,000	315,621,850
8. Srinakarin ※	153,560,700	180,975,000	233,194,400	238,038,250
9. Thammasart	123,507,500	144,598,300	212,908,840	218,349,100
10. Ramkhamhaeng (公開大学)	109,386,600	138,236,300	144,267,000	147,257,300
11. Silpakorn	60,658,800	76,305,800	118,435,100	135,916,190
12. Sukhothai (放送大学)	17,731,800	46,857,900	69,647,800	89,573,700
13. NIDA ※※	27,925,300	34,755,300	44,434,500	46,811,250
14. IAT (Maejo) ※※※	29,777,900	33,297,000	72,886,400	62,495,350

※ Srinakarintharaviroj

※※ National Institute of Development Administration (大学院大学)

※※※ Institute of Agricultural Technology

14 国立大学の学生数

付2

1984. 4. 26

Name	Total	Diploma	Bachelor	Cert.	Master	Ph.D.
<u>Academic Year 1983</u>						
<u>(1983. 6-1984. 3)</u>						
1. Mahidol (1943, 1969改名)	7,060	19	5,382	302	1,302	55
2. Chulalongkorn (1916)	17,337	636	12,580	179	3,889	53
3. Chiang Mai (1964)	10,210	-	9,737	-	473	-
4. Khon Kean (1964)	4,969	130	4,672	-	167	-
5. Prince of Songkla (1965)	4,401	-	4,347	-	54	-
6. Kasetsart (1943)	10,596	-	8,741	-	1,812	43
7. King Mongkut Institute of Technology(1971)	6,141	1,905	3,838	-	398	-
8. Srinakarin	23,754	-	22,381	-	1,325	48
9. Thammasart (1934)	10,128	-	8,649	61	1,418	-
10. Ramkhamhaeng (1969)(公開大学)	546,277*	-	546,277*	-	-	-
11. Silpakorn (1943)	2,968	-	2,568	-	400	-
12. Sukhothai (1978)(放送大学)	111,569*	-	111,569*	-	-	-
13. NIDA(1966)	1,455	-	-	-	1,442	13
14. IAT(Maejo) (1975)	878	-	878	-	-	-
合 計	757,743	2,690	741,619	542	12,680	212

( )内は創立年または現在の名称となった年を示す。  
 ※ 少数の科目だけを受講する社会人多数を含んでいる。  
 前身の有無、その歴史の長短の違いはある。

Number of students who passed the entrance examination, by the order choice  
(Record in 1981)

付3

Name of university	Number of students	1st choice	2nd choice	3rd choice	Sum of 1st-3rd choice	4th choice	5th choice	6th choice
University of Common Examination								
Chulalongkorn	3,148	1,112(35.3) %	551(17.5) %	534(17.0) %	(698)	437	286	228
Khonkhaen	576	11( 1.9)	43( 7.5)	72(12.5)	(21.9)	140	175	135
Chiangmai	1,138	171(15.0)	194(17.0)	218(19.2)	(51.2)	200	203	152
Thammasart	1,903	456(24.0)	472(24.8)	313(16.5)	(65.2)	266	258	138
Mahidol	887	146(16.5)	186(21.0)	173(19.5)	(56.9)	208	131	43
Srinakarintharaviroj	1,533	60( 3.9)	78( 5.0)	114( 7.4)	(16.4)	219	401	661
Silpakorn	544	112(20.6)	88(16.2)	72(13.2)	(50.0)	81	101	90
Prince of Songkha	658	16( 2.4)	48( 7.3)	71(10.8)	(20.5)	129	168	226
King Mongkut Institute of Technology	648	60( 9.3)	136(21.0)	138(21.3)	(51.5)	167	100	47
Kasetsart	2,253	132( 5.9)	221( 9.8)	374(16.6)	(32.3)	472	536	518
Total number	13,288	2,276(17.1)	2,017(15.2)	2,079(15.6)	(48.0)	2,319	2,359	2,238

注: Khonkhaen, Chiangmai, Prince of Songkhla の3地方大学では上表とは種同数のものをそれぞれの地方出身者だけから選抜して入学させている。  
また大学により特殊の奨学金を与える学生を別途に選考したり, 3回生へ編入学させる場合がある。  
表の10大学の入試は共通試験で行われ, 第6志望まで認められる。

## 最初の授与年次と専攻科目

マヒドン大学	基礎医学	1975
シーナカリン大学※	カリキュラム研究	1976
チュラロンコン大学	教育心理学, タイ語	1978
カセサート大学	昆虫学	1981

## 1982 学年度までの Ph.D. 授与数

	計	男	女
マヒドン大学	35	14	21
シーナカリン大学	35	28	7
チュラロンコン大学	18	7	11
カセサート大学	2	2	0
	90	51	39

注 1. ※シーナカリン大学とは正しくは

Srinakarintharaviroj Prasarnmitr Campus

注 2. 以上の 4 大学の他に NIDA に Ph.D. コースができています。



## カセサート大学卒業生数

付6

Year (Academic)	B. S.	M. S.	Year	B. S.	M. S.	Ph. D.
1947	8	—	1965	423	4	—
1948	13	—	1966	422	1	—
1949	13	—	1967	818※	8	—
1950	12	—	1968	466	17	—
1951	18	—	1969	559	38	—
1952	39	—	1970	736	54	—
1953	41	—	1971	910	56	—
1954	63	—	1972	1,036	65	—
1955	84	—	1973	1,499	99	—
1956	116	1	1974	1,460	121	—
1957	125	—	1975	1,252	107	—
1958	164	1	1976	1,130	112	—
1959	190	—	1977	1,243	171	—
1960	227	1	1978	1,348	269	—
1961	219	1	1979	1,436	297	—
1962	241	—	1980	1,575	376	—
1963	332	1	1981	1,761	355	1
1964	342	1	1982	1,892	385	1
			Total	22,213	2,541	2

※This figure is correct and includes two classes, one was enrolled in 1962 for a 5-year course, and the other in 1963 for a 4-year course.

世銀の資金によるカセサート大学教官  
の学位取得留学の成果

人 数：

取得した 学 位	Ph.D.	M. S.	落 伍	M.S.取得後他の fund により	
				Ph.D.取得	Ph.D.コース在学中
	69	39	3	3※	9※
計	111				

※ 1984. 4. 25 現在

学位取得年次：

Ph.D. ; 大部分は 1973-1979, 1980 に 2 人, 1982 に 1 人

M.S. ; 1973-1977

カセサート大学拡充・強化計画  
 の資金関係（1971年以降）  
 （JICAによる技協費を除く）

資	金	高	
	世銀より	320.3	百万パーツ
	タイ国政府より	269.0	
		<hr/>	
		589.3	
使	途		
	カムベンセンキャンパス用	318.2	
	バンケンキャンパス用	194.5	
	教官のレベルアップ（留学）	76.6	
		<hr/>	
		589.3	
参	考		
	3センターに対する日本の無償（小型を含む）	410.0	
	カセサート大学の年間通常予算		
	1980	248.1	
	1981	241.6	
	1983	351.6	
			1ドル = 20.8パーツ
	換算率：		100円 = 10パーツ

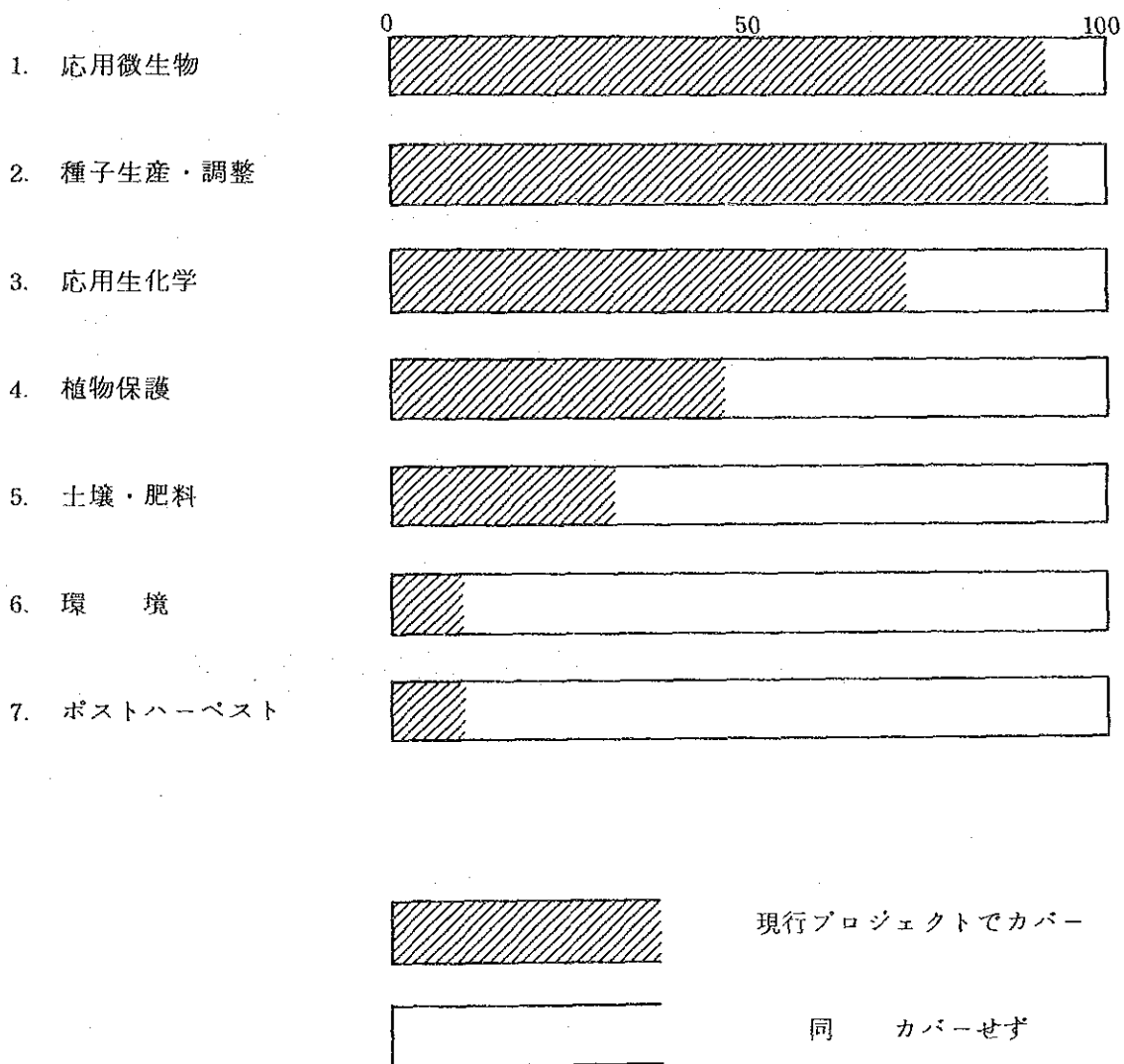
現行プロジェクト（カセサート大学研究  
協力プロジェクト）の歩み  
（タイ側の記録による）

51. 7 1億円程度の小型無償供与の話ができる。
51. 9 副学長 Dr. Sutham の日本大使館訪問とそれによる日本側の意向の激変。
51. 12 Dr. Sutham の訪日
52. 3 約20億円の無償が非公式に日本側からタイ側に伝えられる。
52. 7 第1回有松ミッション（事前調査団）の派遣
52. 10 CLGC（Central Laboratory and Greenhouse Complex, 中央研究所）に対する基本設計調査団の派遣
54. 2 CLGCの建築開始
54. 6. 8-54. 12. 7 長期調査員の派遣
55. 4. 10 現行プロジェクトのR/D署名と発効
55. 6 CLGCの建物のタイ側への引渡式
55. 7 プロジェクトリーダーの派遣
55. 12. 20 CLGC開所式, H. R. H. Princess Maha Chakri Sirindornご臨席
- 57～58 小型無償（AMCと合わせて5億円, CLGCは約3.3億円）
59. 4. 4 小型無償の贈呈式

注：AMC（Agricultural Machinery Center）とNAETC（National Agricultural Extension and Training Center）はCLGCに比べてすべて1カ年ずれている。

CLGCの7つの研究セッションに対する  
 現行プロジェクトによる協力、援助の度合

プロジェクト終了時(60.4.9)における想定



K カセサート大学 Concise Information 1985. 5

# **KASETSART UNIVERSITY**

## **CONCISE INFORMATION**

(AS OF MAY, 1985)

**CONCISE INFORMATION ABOUT  
KASETSART UNIVERSITY**  
*(as of May, 1985)*

**GENERAL**

- Date of Foundation :** February 2, 1943
- Postal Address :** 50 Paholyothin Road  
Bangkhen, Bangkok 10900  
Thailand
- Cable :** UNIKASE 10900
- Telephone :** 5790113 (300 lines ext.)  
Rector's Office : 5792291, 5792292, 5792293  
Kamphaengsaen campus : 034 - 24239
- Type :** A government institution of higher learning under the Ministry of University Affairs
- School Sessions :** First semester - June to October  
Second semester - November to March  
Summer session - April to May
- Medium of Instruction :** Thai is the medium of instruction in practically all courses. English is also used in certain upper-division and graduate courses, but to a very limited extent.

**BRIEF HISTORY**

Kasetsart University emerged initially as College of Agriculture offering a 3-year non-degree-curriculum under the Ministry of Agriculture. On February 2, 1943, it was conferred a university status through amalgamation of the existing Colleges of Agriculture and Forestry of the Ministry of Agriculture at that time and creation of two additional faculties, namely, Faculty of Cooperative Science (now Economics and Business Administration) and Faculty of Fisheries. Subsequent legislation in 1955 brought about the inclusion of two other faculties, namely, Faculty of Veterinary Medicine from the University of Medical Science (now Mahidol University) and Faculty of Engineering from the Royal Irrigation Department of the Ministry of Agriculture. In 1966, Faculty of Science and Arts, and Graduate School, a coordinating unit for graduate study program of all disciplines, were established; and in 1969, 1974 and 1980, Faculties of Education, Social Sciences and Agro-Industry came into existence, respectively. In 1981, the Faculty of Science and Arts was split into Faculty of Science and Faculty of Humanities. Thus, at present, there are altogether 12 faculties in the University, namely, Agriculture, Economics and Business Administration, Education, Engineering, Fisheries, Forestry, Humanities, Science, Social Sciences, Veterinary Medicine, Agro-Industry and Graduate School.

Kasetsart University is the first university in Thailand to offer degree programs in agricultural sciences. Such offering was dictated primarily by the large demand for well-trained manpower for the development of agriculture and related fields in the country. The ensuing large increase in the need for degree holders in many other fields in addition to agriculture and related sciences as a result of the on-going intensive effort in national development has led Kasetsart University to develop into a full-fledged university during recent years. Additional faculties and units of faculty rank have consequently been instituted to take charge of the newly developed programs. Such units are Institute of Food Research and Product Development, Office of Extension and Training, Office of University Library, Research and Development Institute and Office of University Computer. On the basis of the history of its development, it may be noted that in many aspects Kasetsart University fits well with the "Land Grant" model of universities in The United States.

Recognizing the need to provide a leading role in manpower training for agriculture and rural development that Kasetsart University must contribute, it has conducted, with assistance from various appropriate sources --the Rockefeller Foundation, the University of California, the Oregon State University, and Cornell University teams, --the feasibility studies of university development and expansion to meet this need with an effective but flexible approach. Another compelling factor for the university expansion is the rapid enlargement of highschool graduates during 1960's and 1970's who must seek and compete for rather limited seats available at the country institutions of higher learning. This fact was more than confirmed when Kasetsart student enrolment surpassed the original projected target for 1980 of 5,800 by 1970. With the original campus at Bangkhen Kasetsart-University could not expect to make any substantial development in terms of accommodation and seating capacity, for it must share the premise with the Ministry of Agriculture and Cooperatives leaving an area of approximately 125 hectares for its exclusive use. With this prospect and constraints, the University finally adopted a development project, with the blessing of the Thai Government and with the financial assistance of the IBRD loan to develop the second campus on a 1,250-hectare site in Kamphaengsaen district, Nakorn Pathom province, 80 kilometres west of Bangkok. The Project called for the new establishment of strong teaching and research facilities in agricultural sciences. The original Bangkhen campus would be developed in such a manner that it would strengthen instruction and research on both campuses. The project was officially started in May 1972 and completed in July 1980. Excellent additional research and extension facilities have been added through the grant-aid program of the Government of Japan that has greatly accentuated the service capability of the Kamphaengsaen Campus when employed in joint effort with other government agencies and universities.

Instruction on the new campus was started in November 1979 to some 1,000 junior students in agriculture, agricultural education, agricultural and irrigation engineering and veterinary medicine. The newly completed facilities provide the first phase of the second campus development which is to be continued stepwise in order to accommodate freshmen and sophomores in certain appropriate disciplines to bring the enrolment up to 3,000, 4,500, 6,000 until the full development is reached providing for 12,000 students. The Bangkhen



campus is now serving some 10,500 undergraduates and graduates. It is also anticipated that Bangkok facilities shall, in addition to strengthening the Kamphaengsaen development, also serve the new requirements that Kasetsart University must expand and strengthen services in the fields of business, education, industry and health.

## FUNCTIONS AND ORGANIZATION

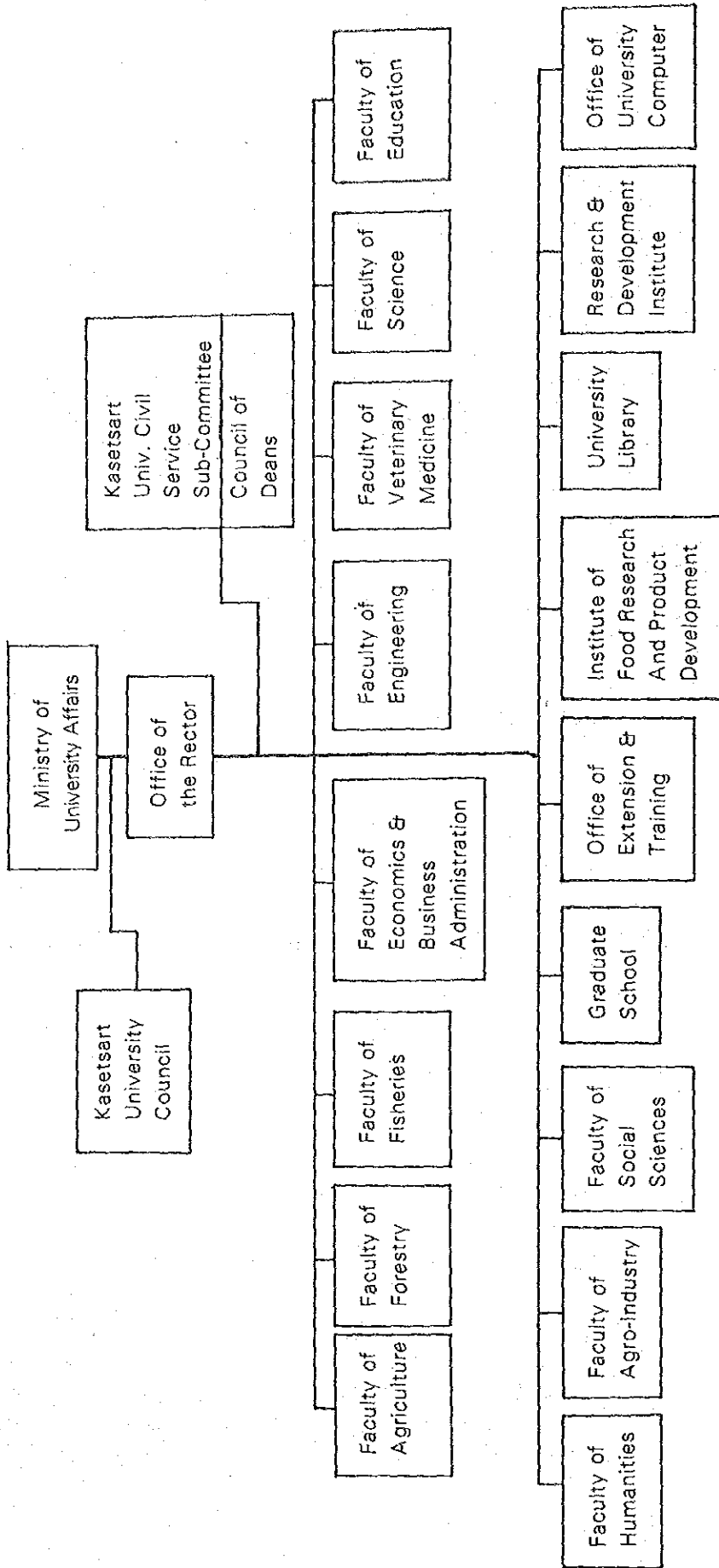
Kasetsart University is a government institution attached to the Ministry of University Affairs. Academic, budgetary and personnel matters of the University are under the supervision of the Ministry of University Affairs. The University Council is the governing body empowered to formulate academic policies and to issue rules and regulations on university administrative matters. With a membership of 34, including its Chairman, the University Council comprises two categories of members: *ex-officio* and appointed. The *ex-officio* members are the Secretary-General of the National Education Commission, the Rector, Vice - Rectors, Deans and Directors. The chairman and a varying number of members (*at least 4 but not more than 9*) are appointed by the Crown on grounds of merit and upon the recommendation of the Cabinet. The term of office for the appointed Council members is two years. The four primary functions of Kasetsart University as well as other state universities in Thailand are :-

1. *To implement high-level educational curricula in various technological and professional fields,*
2. *To conduct research pertinent to the educational curricula being implemented, the attainment of high-quality academic staff and upkeeping of a dignified of higher learning, and the prevailing technical, economic and social needs of the nation,*
3. *To render technological services to the society and promote application of desirable research findings among members of the various occupational groups of the country, and*
4. *To assist in preserving national culture.*

Administratively, Kasetsart University is made up of a number of academic units called "*faculty*" and other units of faculty rank: the Rector is the chief executive, with Kasetsart University Civil Service Sub-Committee and Council of Deans as executive boards. With the exception of the Graduate School, all faculties are subdivided into academic departments in accordance with the distinct fields of study being offered. The Graduate School functions primarily as the coordinating unit for graduate study programs that are being implemented in various academic departments under its direct jurisdiction. Other units of faculty rank are subdivided into divisions or sections in accordance with the areas of their respective responsibilities.

Each faculty is headed by a dean, who also serves as chairman of the executive board of the faculty. The heads of academic departments constitute *ex-officio* members of the executive board of the corresponding faculty. Likewise, each of the other units of faculty rank is headed by a director who chairs an executive board of nine selected university -

**ORGANIZATION CHART**



wide staff members. The Graduate School is headed by a dean; a group of University-wide graduate staff members constitute its executive board with the dean as chairman.

## UNIVERSITY ADMINISTRATIVE OFFICERS

### Rector :

*Chongrak Prichananda*, B.S.F. (University of the Philippines), M.S. (Oregon State University), Ph.D. (State University of New York); Assistant Professor of Forest Products.

### Vice-Rectors :

*Krisna Chutima* (Mrs.), B.Sc. (1st - class Hons.) (Chulalongkorn), M.S. (University of California at Berkeley), Ph.D. (Purdue University); Professor of Chemistry.

*Kian Eadkeo*, B.S.F. (Kasetsart), M.F. (Yale University), Ph.D. (University of Georgia); Assistant Professor of Forestry.

*Boonsom Suwachirat*, B.Eng. (Kasetsart), M.Eng. (SEATO Graduate School); Associate Professor of Civil Engineering.

*Sam-arng Srinilta*, B.S.A. (cum laude) (University of the Philippines) M.S. (University of California at Berkeley), Ph.D. (Iowa State University); Associate Professor of Soil Science.

*Paiboon Paireepairit*, B.S. Agr. (Kasetsart), M.S. (Kasetsart); Assistant Professor of Horticulture

### University Librarian :

*Piboonsin Watanapongse*, B.A., M.A. (Chulalongkorn University).

### Registrar :

*Vicha Sukit*, B.S. Agr. (Kasetsart), M.S., Ph.D. (University of the Philippines); Assistant Professor of Biology.

## UNIVERSITY ADMINISTRATIVE STAFF

### Director of Medical Service Center :

*Bhinyo Kalayanamitr*, M.D.

### Chief of General Affairs Division :

*Sermsuk Liewlom* (Mrs.), B.A.

### Chief of Personnel Division :

*Pichitchai Pongudom*, LL.B.

### Chief of Finance Division :

*Cheewan Senanarong* (Mrs.), B.S. Agr.; Instructor of Horticulture

**Chief of Planning Division :**

*Paisan Kingpetcharat*, B.S. (Econ.) (Kasetsart); Assistant Professor of Economics

**Chief of Student Affairs Division :**

*Araya Nual-Indra*, M.Eng.; Assistant Professor of Civil Engineering

**Chief of Educational Service Division :**

*Vicha Sukit*, Ph.D.; Assistant Professor of Biology

**Chief of Vehicle, Building and Physical Plant Division :**

*Manat Suchawipan*, M.Sc. Assistant Professor of Biology

## DEANS OF FACULTIES

**Agriculture :**

*Prasan Yingchol*, B.S. Agr. (Kasetsart), M.S. (Dacca University), D.Agr. (University of Vienna); Assistant Professor of Agronomy

**Agro - Industry :**

*Tasanee Sorasuchart*, B.S. (Chulalongkorn), M.S. (Oregon state University); Assistant Professor of Fishery Products

**Economics and Business Administration :**

*Chamnien Boonma*, B.S. (Kasetsart), M.S. (University of Hawaii), Ph.D. (University of Illinois), Assistant Professor of Agricultural Economics

**Education :**

*Yupa Yeravaidhaya* (Miss.), B.Ed. (Chulalongkorn), M.A., Ed.D. (University of Northern Colorado); Assistant Professor of Education

**Engineering :**

*Wanchai Pahnichaputt*, B.Eng. (Chulalongkorn), M.S., Ph.D. (Purdue University), Assistant Professor of Mechanical Engineering

**Fisheries :**

*Wit Tarnchalanukit*, B.S. Fisheries (Kasetsart); Associate Professor of Aquaculture

**Forestry :**

*Somsak Sukwong*, B.S.F. (Hons.) (Kasetsart), M.F., Ph.D. (Colorado State University); Assistant Professor of Forest Biology

**Humanities :**

*Singthong Pornnikom*, B.A. (Mahamongkut), M.A. (BHU); Instructor of Philosophy and Religion

**Science :**

*Sookpracha Vachanonda*, B.S. (Chulalongkorn), M.S., Ph.D. (Oregon State University); Assistant Professor of Chemistry

**Social Sciences :**

*Nipon Kantasewi*, B.S., M.Ed. (University of California), Ph.D. (Pennsylvania State University); Professor of Sociology and Anthropology

**Veterinary Medicine :**

*Pibul Chai-anan*, D.V.M. (Kasetsart), Assistant Professor of Veterinary Surgery

**Graduate School :**

*Yongyut Jiemchaisri*, B.S., M.S., Ph.D. (University of Wisconsin); Assistant Professor of Chemistry

## DIRECTORS OF UNITS OF FACULTY RANK

**Institute of Food Research and Product Development :**

*Bulan Phithakpol* (Mrs.), B.S. (University of California), M.S. (Cal Poly)

**Office of Extension and Training :**

*Phorn Suwanvajokkasikij*, B.S. Agr. (Kasetsart), M.S. (Utah State University); Associate Professor of Agricultural Extension

**Office of University Library :**

*Piboonsin Watanapongse* (Mrs.), B.A. (Chulalongkorn)

**Research and Development Institute (KURDI):**

*Kamphol Adulavidhaya*, B.S. Agr. (Hons.) (Kasetsart), M.S. (Oregon State University), Ph.D. (Purdue University); Associate Professor of Agricultural Economics

**Office of University Computer :**

*Yanyong Boonlong*, B.S. (C.E.), M.S. (Computer Science); Assistant Professor of Civil Engineering

## DIRECTORS OF CENTERS

**National Agricultural Extension and Training Center :**

*Poom Khumgliang*, B.S. Agr., M.A. (C.D.), Assistant Professor of Agricultural Extension

**National Corn and Sorghum Research Center :**

*Porn Rungchang, M.Sc.*

**National Swine Research and Training Center :**

*Charan Chantalakhana, Ph.D., Professor of Animal Science*

**Agricultural Machinery Center :**

*Banchaw Phaholyothin, M. Eng., Assistant Professor of Agricultural Engineering*

**Central Laboratory and Greenhouse Complex :**

*Vichai Korpraditskul, Ph.D., Assistant Professor of Plant Pathology*

**National Biological Control Research Center :**

*Banpot Napompeth, Ph.D., Assistant Professor of Entomology*

**Highland Agriculture**

*Pavin Punsri, M.S., Professor of Pomology*

**The Center for Applied Economics Research**

*Sopin Tongpan, Ph.D., Associate Professor of Agricultural Economics*

**CHAIRMAN OF STANDING COMMITTEES****Education Committee :**

*Charan Chantalakhana, B.S., (Kasetsart), M.S., Ph.D. (Iowa State University), Professor of Animal Science.*

**Student Affairs Committee :**

*Vice - Rector (Boonsom Suwachirat)*

**Public Relations Committee :**

*Chacrit Chulakasewi, B.S. Agr. (Kasetsart)*

**Textbook and Instructional Material Production Committee :**

*Yongyut Jiemchaisri, B.S., M.S., Ph.D. (University of Wisconsin); Assistant Professor of Chemistry*

**Staff Housing Committee :**

*Natee Nilnopkun, D.V.M., Dip.in Vet. Anatomy (F.R.V.A.C., Denmark)*

**Sports Committee :**

*Boonsom Suwachirat, B.Eng. (Kasetsart), M.Eng. (SEATO Graduate School); Associate Professor of Civil Engineering.*

## HEADS OF ACADEMIC DEPARTMENTS

### 1. Faculty of Agriculture :

Department	Head
Agricultural Extension and Communication	<i>Poltip Komarakul</i> , B.S. Assistant Professor
Agronomy	<i>Sanan Chantkam</i> , Ph.D. Assistant Professor
Animal Science	<i>Charan Chantalakhana</i> , Ph.D. Professor
Entomology	<i>Sawarng Charoenying</i> , Ph.D. Assistant Professor
Farm Mechanics	<i>Aram Varanyanont</i> , B.Sc. Assistant Professor
Home Economics	<i>Priya Ketudat</i> , M.S. Assistant Professor
Horticulture	<i>Sompian Kasemsap</i> (Mrs.), M.S. Associate Professor
Plant Pathology	<i>Thira Sutabutra</i> , Ph.D. Associate Professor
Soil Science	<i>Somsak Wangnai</i> , Ph.D. Associate Professor

### 2. Faculty of Agro - Industry :

Department	Head
Biotechnology	<i>Supapong Puwapattanapan</i> , M.Tech. Instructor
Food Science and Technology	<i>Saisanom Praditduang</i> (Mrs.), M.S. Assistant Professor
Packaging Technology	<i>Thanong Pakruspan</i> , Ph.D. Associate Professor
Product Development	<i>Vichai Harutaitanasan</i> , M.Sc. Associate Professor

### 3. Faculty of Economics and Business Administration :

Department	Head
Accounting	<i>Vichitra Poonpermsub</i> (Mrs.), M.B.A. Associate Professor
Agricultural Economics	<i>Chaiwat Konjing</i> , Ph.D. Instructor

Business Administration	<i>Vasana Singhakowinta</i> (Mrs.), M.S. Associate Professor
Cooperative Science	<i>Smarn Tongsimar</i> , M.S. Assistant Professor
Economics	<i>Prajoed Sinsup</i> , Ph.D. Professor
Marketing	<i>Prasit Yamalee</i> , M.B.A. Instructor

#### 4. Faculty of Education :

Department	Head
Education	<i>Kitiya Pornsajja</i> (Miss), M.A. Instructor
Educational Technology	<i>Pranee Nontamas</i> , M.A. Instructor
Physical Education	<i>Sanong Noppasong</i> , B.Ed. Instructor
Vocational Education	<i>Kanjana Chuatongdee</i> (Mrs.), M.A. Assistant Professor

#### 5. Faculty of Engineering :

Department	Head
Agricultural Engineering	<i>Kamnuan Tanpan</i> , M.S. Assistant Professor
Civil Engineering	<i>Sompothi Vivithkeyoonyong</i> , Ph.D. Assistant Professor
Electrical Engineering	<i>Chamnarn Hawkiat</i> , Ph.D. Associate Professor
Industrial Engineering	<i>Pichit Sukchareonpong</i> , D.Eng. Assistant Professor
Irrigation Engineering	<i>Twiwach Samneangprasert</i> , M.S. Associate Professor
Mechanical Engineering	<i>Santi Viriyawit</i> , Ph.D. Instructor
Water Resources Engineering	<i>Chukiatt Suppaisal</i> , M.Eng. Assistant Professor

#### 6. Faculty of Fisheries :

Department	Head
Aquaculture	<i>Wiang Chuapohak</i> , Ph.D. Assistant Professor



Fishery Biology	<i>Rassmee Sroiwattana</i> , M.Sc. Instructor
Fishery Management	<i>Kungwan Juntarashote</i> , M.S. Instructor
Fishery Products	<i>Amnuay Chotiyawong</i> , M.S. Assistant Professor
Marine Science	<i>Chaloemwilai Chuensri</i> , M.S. Assistant Professor

#### 7. Faculty of Forestry :

Department	Head
Conservation	<i>Kasem Chankoe</i> , Ph.D. Professor
Forest Biology	<i>Utid Kudindra</i> , Ph.D. Assistant Professor
Forest Engineering	<i>Chanchai Yarwudhi</i> , Ph.D. Instructor
Forest Management	<i>Lert Chantanaparb</i> , Ph.D. Assistant Professor
Forest Products	<i>Niyom Petchpud</i> , M.A. Instructor
Silviculture	<i>Choob Khemmark</i> , M.S. Associate Professor

#### 8. Faculty of Humanities :

Department	Head
Career Science	<i>Kulasak Chayangam</i> , Ph.D. Associate Professor
Communication Arts	<i>Kanitta Attasampunna</i> , M.A. Assistant Professor
Languages	<i>Chamai Dardarananda</i> (Mrs.), M.A. Assistant Professor
Library Science	<i>Somboon Saichamjunta</i> (Mrs.), M.A. Librarian
Linguistics	<i>Visamai Manomaipiboon</i> , M.A. Assistant Professor
Literature	<i>Montri Umavijani</i> , M.A. Assistant Professor
Philosophy and Religion	<i>Phrom Srivongse</i> , M.A. Instructor

**9. Faculty of Science :**

Department	Head
Botany	<i>Ath Boonitee</i> , M.S. Associate Professor
Chemistry	<i>Sukanda Rojanasoonthon</i> (Mrs.), M.S. Assistant Professor
Genetics	<i>Amara Kampiranon</i> (Mrs.), Ph.D. Instructor
Mathematics	<i>Tasneya Bhatraramongkol</i> (Mrs.), M.S. Instructor
Microbiology	<i>Malee Suwana-Adth</i> (Mrs.), Ph.D. Instructor
Physics	<i>Vidhurn Hongsumalya</i> , M.S. Associate Professor
Applied Radiation and Radioisotopes	<i>Sumin Smutkupta</i> , Ph.D. Associate Professor
Statistics	<i>Songsiri Taesombat</i> (Mrs.), Ph.D. Assistant Professor
Zoology	<i>Lamom Busapavanich</i> (Miss), M.S. Assistant Professor

**10. Faculty of Social Sciences :**

Department	Head
Geography and History	<i>Ruchaniwan Vechaprut</i> , (Mrs.), M.Ed. Assistant Professor
Law	<i>Somsith Wichitpong</i> , LL.B. Assistant Professor
Political Science and Public Administration	<i>Sondhi Tejanant</i> , M.A. Assistant Professor
Psychology	<i>Paungpetch Wacharayoo</i> , (Mrs.), M.A. Assistant Professor
Sociology and Anthropology	<i>Narong Srisawas</i> , Ph.D. Assistant Professor

**11. Faculty of Veterinary Medicine :**

Department	Head
Anatomy	<i>Boontham Chongcharoen</i> , D.V.M. Assistant Professor
Medicine	<i>Chusri Promvaratorn</i> , D.V.M. Assistant Professor

Obstetrics, Gynaecology and Animal Reproduction	<i>Samutra Sirivejpandu, D.V.M.</i> Assistant Professor
Pathology	<i>Pirom Srivoranat, D.V.M.</i> Assistant Professor
Pharmacology	<i>Perapon Yoosawas, D.V.M.</i> Assistant Professor
Physiology	<i>Sopa Sorndee, D.V.M.</i> Assistant Professor
Surgery	<i>Prapan Ketsang, D.V.M.</i> Assistant Professor

## AFFILIATED INSTITUTIONS

### 1. National Corn and Sorghum Research Center

This Center is a joint undertaking since 1966 between Ministry of Agriculture and Cooperatives and Kasetsart University with a primary purpose of intensive utilization of the available technical know-how and resources of the two government agencies in the promotion of corn and sorghum production in the country. It is located at the Suwan Farm of the University - in Pakchong District of Saraburi Province, about 150 kilometers northeast of Bangkok. Its activities have been supported by/in cooperation with many agencies --notably the Rockefeller Foundation, CIMMYT, and ICRISAT. Improved seeds of high yield and good downy mildew resistance together with new management techniques are now giving farmers better production. Training activities for local and international personnels of various levels have been conducted at the Center.

### 2. National Swine Research and Training Center

This is another joint effort between Ministry of Agriculture and Cooperatives and Kasetsart - University with intensive research and non-degree training in the various aspects of swine production as the common interest. The Center aims to provide reliable breeding stocks, improved management for efficient production and coordinated efforts between farmers and government/private sectors in building a stable nationwide swine production. Its headquarters are located at Kamphaengsaen campus of Kasetsart University, with stations for breeding stock and for management research supported by the Ministry.

### 3. National Biological Control Research Center (NBCRC)

Through the agreement of the National Research Council of Thailand and Kasetsart University, the National Biological Control Research Center was established in 1973 to handle all works related to biological control of pests of agricultural as well as public health importance.

NBCRC is operated in initial phase by a subcommittee consisting of representatives from various institutional collaborators. The cooperating agencies include Departments of

Agriculture, Fisheries, and Forestry of the Ministry of Agriculture and Cooperatives; Ministry of Public Health; and other Universities --Mahidol, Chiangmai, Khonkaen, and Prince of Songkha.

Eventually the University will be solely responsible for operation and organization of NBCRC - in close collaboration with cooperating agencies. The national headquarters will be located - on Kamphaengsaen campus with regional subcenters representing various geographical areas of Thailand in Bangkok, Chiang Mai, Khonkaen and Hadyai. With its international context in nature and scope of work, NBCRC is also engaged in cooperative projects with other of institutions outside the country such as BIOTROP, Indonesia, State of Hawaii, Department of Agriculture. US Department of Agriculture. Cooperation is also being sought - and given to other international agencies such as the Commonwealth Institute of Biological Control (CIBC), International Organization of Biological Control (IOBC), and other interested agencies.



## SOME STATISTICS PERTINENT TO INSTRUCTION AND RESEARCH

### 1. Composition of Academic Staff

Position	Highest Degree Earned			Total
	Bachelor's	Master's	Doctorate	
<i>1.1 Faculty of Agriculture</i>				
Professor	-	1	5	6
Associate Professor	-	9	18	27
Assistant Professor	18	46	41	105
Instructor	17	64	30	111
Total	35	120	94	249
<i>1.2 Faculty of Agro - Industry</i>				
Professor	-	-	-	-
Associate Professor	-	2	-	2
Assistant Professor	-	6	5	11
Instructor	-	10	6	16
Total	-	18	11	29
<i>1.3 Faculty of Economics and Business Administration</i>				
Professor	-	-	1	1
Associate Professor	-	7	7	14
Assistant Professor	6	28	11	45
Instructor	5	46	9	60
Total	11	81	28	120
<i>1.4 Faculty of Education</i>				
Professor	-	-	-	-
Associate Professor	-	2	3	5
Assistant Professor	4	21	11	36
Instructor	90	150	10	250
Total	94	173	24	291

Position	Highest Degree Earned			Total
	Bachelor's	Master's	Doctorate	
<b>1.5 Faculty of Engineering</b>				
Professor	-	1	-	1
Associate Professor	-	7	3	10
Assistant Professor	5	25	12	42
Instructor	15	35	3	53
Total	20	68	18	106
<b>1.6 Faculty of Fisheries</b>				
Professor	-	-	-	-
Associate Professor	1	3	2	6
Assistant Professor	2	14	2	18
Instructor	4	7	4	15
Total	7	24	8	39
<b>1.7 Faculty of Forestry</b>				
Professor	-	-	1	1
Associate Professor	1	11	8	20
Assistant Professor	-	6	15	21
Instructor	6	10	2	18
Total	7	27	26	60
<b>1.8 Faculty of Humanities</b>				
Professor	-	-	1	1
Associate Professor	-	4	-	4
Assistant Professor	2	25	5	32
Instructor	6	31	6	43
Total	8	60	12	80

Position	Highest Degree Earned			Total
	Bachelor's	Master's	Doctorate	
<b>1.9 Faculty of Science</b>				
Professor	-	2	1	3
Associate Professor	-	8	3	11
Assistant Professor	12	47	23	82
Instructor	23	70	18	111
Total	35	127	45	207
<b>1.10 Faculty of Social Sciences</b>				
Professor	-	-	1	1
Associate Professor	-	9	-	9
Assistant Professor	2	22	4	28
Instructor	3	19	-	22
Total	5	50	5	60
<b>1.11 Faculty of Veterinary Medicine</b>				
Professor	-	-	-	-
Associate Professor	2	1	4	7
Assistant Professor	17	4	15	36
Instructor	8	9	5	22
Total	27	14	24	65
<b>1.12. Graduate School</b>				
Professor	-	-	-	-
Associate Professor	-	-	-	-
Assistant Professor	-	-	-	-
Instructor	2	2	-	4
Total	2	2	-	4

Position	Highest Degree Earned			Total
	Bachelor's	Master's	Doctorate	
<i>1.13 Institute of Food Research and Product Development</i>				
Professor	-	-	-	-
Associate Professor	-	-	-	-
Assistant Professor	-	-	1	1
Instructor	-	-	-	-
Total	-	-	1	1
<i>1.14. Extension and Training Office</i>				
Professor	-	-	-	-
Associate Professor	-	2	1	3
Assistant Professor	1	9	1	11
Instructor	-	5	1	6
Total	1	16	3	20
<i>Grand Total</i>	<i>252</i>	<i>780</i>	<i>299</i>	<i>1,331</i>





## 2. Curricula of Instruction (Academic Year 1985 - 86)

Curriculum	Major Discipline	Duration (Years)	Total Units Required
<i>Faculty of Agriculture</i>			
(1) B.S. (Agriculture)	<i>Agricultural Extension Agronomy Animal Science Entomology Farm Mechanics Horticulture Plant Pathology Soil Science</i>	4	142
(2) B.S. (Home Economics)		4	143
<i>Faculty of Agro - Industry</i>			
(1) B.S. (Food Science and Technology)		4	147
(2) B.S. (Food Science)		4	147
(3) B.S. (Biotechnology)		4	146
(4) B.S. (Product development)		4	147
<i>Faculty of Economics and Business Administration</i>			
(1) B.S. (Accounting)		4	143
(2) B.S. (Agricultural Economics)		4	148
(3) B.S. (Business Administration)		4	143
(4) B.S. (Cooperative Economics)		4	144
(5) B.S. (Economics)		4	145
(6) B.S. (Marketing)		4	143
<i>Faculty of Education</i>			
(1) B.A. (Home Economics Education)		4	142
(2) B.A. (Physical Education)		4	150
(3) B.Ed. (Business Education)		4	141
(4) B.Ed. (Health Education)		4	142
(5) B.S. (Agricultural Education)		4	145
(6) B.S. (Physical Education)		4	142
<i>Faculty of Engineering</i>			
(1) B.Eng. (Agricultural Engineering)		4	150
(2) B.Eng. (Civil Engineering)		4	149
(3) B.Eng. (Electrical Engineering)		4	149

Curriculum	Major Discipline	Duration (Years)	Total Units Required
(4) B.Eng. (Industrial Engineering)		4	150
(5) B.Eng. (Irrigation Engineering)		4	150
(6) B.Eng. (Mechanical Engineering)		4	150
(7) B.Eng. (Water Resources Engineering)		4	150
<b>Faculty of Fisheries</b>			
(1) B.S. (Fisheries)	<i>Aquaculture</i> <i>Fishery Biology</i> <i>Fishery Management</i> <i>Fishery Products</i> <i>Marine Science</i>	4	146
<b>Faculty of Forestry</b>			
(1) B.S. (Forestry)	<i>Forest Biology</i> <i>Forest Products</i> <i>Forest Resources</i>	4	145
<b>Faculty of Humanities</b>			
(1) B.A. (English)		4	149
(2) B.A. (French)		4	149
(3) B.A. (German)		4	149
(4) B.A. (Japanese)		4	149
(5) B.A. (Thai)		4	149
(6) B.A. (Philosophy and Religion)		4	149
(7) B.A. (Hotel Study)		4	149
(8) B.A. (Mass Communication)		4	149
(9) B.A. (Music)		4	149
(10) B.A. (Secretarial Science)		4	149
(11) B.A. (Tourism)		4	149
(12) B.A. (English Literature)		4	149
(13) B.A. (Thai Literature)		4	149
<b>Faculty of Science</b>			
(1) Pre - Medicine		1	44
(2) B.A. (Mathematics)		4	144
(3) B.A. (Biology)	<i>Applied Radiation and Radioisotope</i> <i>Biology</i> <i>Botany</i>	4	144

Curriculum	Major Discipline	Duration (Years)	Total Units Required
	<i>Genetics</i>		
	<i>Microbiology</i>		
	<i>Zoology</i>		
(4) B.S. (Chemistry)		4	144
(5) B.S. (Mathematics)		4	144
(6) B.S. (Physics)		4	144
(7) B.S. (General Science)		4	144
(8) B.S. (Statistics)		4	140
<b><i>Faculty of Social Sciences</i></b>			
(1) B.A. (Geography)		4	142
(2) B.A. (Political Science)		4	148
(3) B.A. (History)		4	143
(4) B.A. (Social Science)		4	143
(5) B.A. (Sociology and Anthropology)		4	143
(6) B.S. (Psychology)		4	144
<b><i>Faculty of Veterinary Medicine</i></b>			
(1) B.S. (Veterinary Science)		4	150
(2) D.V.M.		6	219
<b><i>Graduate School</i></b>			
(1) M.A. (Adult Education)		2	45
(2) M.A. (Cooperative Economics)		2	45
(3) M.A. (Educational Psychology and Guidance)		2	45
(4) M.A. (Social Development)		2	45
(5) M.A. (Teaching - Education)	<i>English Teaching</i>	2	45
	<i>French Teaching</i>		
	<i>Mathematics Teaching</i>		
	<i>Science Teaching</i>		
	<i>Social Studies Teaching</i>		
	<i>Thai Teaching</i>		
(6) M.B.A.		2	45
(7) M.Ed. (Educational Technology)		2	45
(8) M.Eng. (Civil Engineering)		2	45
(9) M.Eng. (Electrical Engineering)		2	45
(10) M.Eng. (Irrigation Engineering)		2	45
(11) M.Eng. (Water Resources Engineering)		2	45

Curriculum	Major Discipline	Duration (Years)	Total Units Required
(12) M.H.E.		2	45
(13) M.S. (Agriculture)	<i>Agricultural Education</i> <i>Agricultural Extension</i> <i>Agronomy</i> <i>Animal Science</i> <i>Entomology</i> <i>Horticulture</i> <i>Plant Pathology</i> <i>Soil Science</i>	2	45
(14) M.S. (Agricultural Economics)		2	45
(15) M.S. (Biology)		2	45
(16) M.S. (Biotechnology)		2	45
(17) M.S. (Botany)		2	45
(18) M.S. (Chemistry)	<i>Analytical Chemistry</i> <i>Organic Chemistry</i>	2	45
(19) M.S. (Economics)		2	45
(20) M.S. (Environmental Science)		2	45
(21) M.S. (Fishery Science)		2	45
(22) M.S. (Food Science)		2	45
(23) M.S. (Forestry)	<i>Forest Biology</i> <i>Forest Management</i> <i>Forest Product</i> <i>Silviculture</i> <i>Watershed Management</i>	2	45
(24) M.S. (Genetics)		2	45
(25) M.S. (Microbiology)		2	45
(26) M.S. (Zoology)		2	45
(27) Ph.D. (Agronomy)		3	40
(28) Ph.D. (Entomology)		3	40
(29) Ph.D. (Soil Science)		3	40

### 3. Number of Courses Offered (Academic Year 1984 - 85)

Faculty	First - Semester Second Semester	
Agriculture	277	294
Agro-Industry	41	43
Economics and Business Administration	163	173
Education	195	215
Engineering	151	159
Fisheries	52	50
Forestry	113	134
Humanities	122	144
Science	219	248
Social Sciences	131	135
Veterinary Medicine	25	18
<b>Total</b>	<b>1,489</b>	<b>1,613</b>

### 4. Student Enrollment (Academic Year 1983 - 84, 1984 - 85)

Faculty	Level	2 nd. Semester 1 st. semester	
		1983 - 84	1984 - 85
Agriculture		1,373	1,513
Agro - Industry		239	238
Economics and Business Administration		1,372	1,531
Education		1,086	1,099
Engineering		995	1,102
Fisheries		294	325
Forestry		575	629
Humanities		326	337
Science		588	634
Social Sciences		587	728
Veterinary Medicine		241	362
Sub - total	Undergraduate	7,676	8,498
Graduate School	Master's degree	1,812	1,909
	Doctorate	32	31
Sub - total	Graduate	1,844	1,940
<b>Grand Total</b>		<b>9,520</b>	<b>10,438</b>

### 5. Number of Graduates (Academic Year 1982 - 83, 1983 - 84)

Degree	Number of Graduates 1982 - 83	Number of Graduates 1983 - 84
<i>Faculty of Agriculture</i>		
Bachelor of Science (Agriculture)	375	339
Bachelor of Science (Home Economics)	20	25
<i>Faculty of Agro - Industry</i>		
Bachelor of Science (Food Science)	36	1
Bachelor of Science (Food Science and Technology)	-	36
Bachelor of Science (Biotechnology)	-	13
Bachelor of Science (Product Development)	-	14
<i>Faculty of Economics and Business Administration</i>		
Bachelor of Science (Accounting)	60	54
Bachelor of Science (Agricultural Economics)	95	80
Bachelor of Science (Business Administration)	65	79
Bachelor of Science (Cooperative Economics)	39	39
Bachelor of Science (Economics)	73	62
Bachelor of Science (Marketing)	36	34
<i>Faculty of Education</i>		
Bachelor of Arts (Home Economics Education)	43	47
Bachelor of Arts (Physical Education)	94	138
Bachelor of Education (Business Education)	-	8
Bachelor of Education (Health Education)	38	30
Bachelor of Science (Agricultural Education)	96	79
Bachelor of Science (Physical Education)	43	38
<i>Faculty of Engineering</i>		
Bachelor of Engineering (Agricultural Engineering)	34	34
Bachelor of Engineering (Civil Engineering)	57	71
Bachelor of Engineering (Electrical Engineering)	52	42
Bachelor of Engineering (Irrigation Engineering)	38	44
Bachelor of Engineering (Mechanical Engineering)	30	20
<i>Faculty of Fisheries</i>		
Bachelor of Science (Fisheries)	69	65
<i>Faculty of Forestry</i>		
Bachelor of Science (Forestry)	105	106

Degree	Number of Graduates 1982 - 83	Number of Graduates 1983 - 84
<b><i>Faculty of Humanities</i></b>		
Bachelor of Arts (Languages)	71	78
Bachelor of Arts (Philosophy and Religion)	1	2
<b><i>Faculty of Science</i></b>		
Bachelor of Science (Biology)	37	37
Bachelor of Science (Chemistry)	29	16
Bachelor of Science (Mathematics)	3	11
Bachelor of Science (Physics)	2	3
Bachelor of Science (General Science)	15	25
Bachelor of Science (Statistics)	45	30
<b><i>Faculty of Social Sciences</i></b>		
Bachelor of Arts (Sociology and Anthropology)	30	32
Bachelor of Arts (History)	28	30
Bachelor of Arts (Geography)	18	13
Bachelor of Arts (Political Science)	57	53
Bachelor of Science (Psychology)	21	22
<b><i>Faculty of Veterinary Medicine</i></b>		
Bachelor of Science	4	1
Doctor of Veterinary Medicine	33	38
<b><i>Graduate School</i></b>		
Master of Arts (Adult Education)	6	5
Master of Arts (Community Development)	-	-
Master of Arts (Cooperative Economics)	4	10
Master of Arts (Economics Development)	1	1
Master of Arts (Educational Psychology and Guidance)	14	18
Master of Arts (Social Development)	15	13
Master of Arts (Teaching - Education)	86	87
Master of Engineering (Civil Engineering)	5	1
Master of Engineering (Electrical Engineering)	4	7
Master of Engineering (Irrigation Engineering)	1	1
Master of Home Economics	1	3
Master of Science (Agriculture)	137	129
Master of Science (Agricultural Economics)	16	26
Master of Science (Biology)	18	5
Master of Science (Botany)	5	2

Degree	Number of Graduates 1982 - 83	Number of Graduates 1983 - 84
Master of Science (Economics)	7	16
Master of Science (Environmental Science)	28	29
Master of Science (Fishery Science)	1	8
Master of Science (Food Science)	8	9
Master of Science (Forestry)	18	12
Master of Science (Genetics)	-	1
Master of Science (Microbiology)	6	6
Master of Science (Zoology)	4	14
Doctor of Philosophy (Agronomy)	-	1
Doctor of Philosophy (Entomology)	1	-
Doctor of Philosophy (Soil Science)	-	1
<b>Total</b>	<b>2,277</b>	<b>2,293</b>





### Research Programs and Research Fund (Fiscal Year 1985)

Master Project	Amount of Fund (Baht)
Office Administration	1,045,000
Agribusiness Management	138,000
Agricultural Biology	137,000
Agro-Industry	279,000
Analytical Technology	134,000
Animal Health and Diseases	497,000
Applied Engineering Technology for Agricultural and Industrial Development	120,000
Aquaculture	300,000
Beef Animals	545,000
Cereal Crop Production	232,000
Competency Based Teacher Education: Teacher and Instructional Development	130,000
Curriculum Development	188,000
Dairy Animals	112,000
Energy Resources	196,000
Industrial Entomology	124,000
Environmental Studies in Agriculture and Forestry	256,000
Feed Crops	209,000
Fiber Crops	140,000
Flower and Ornamental Plant Production	208,000
Forest Management	150,000
Fruit Crops and Usage	290,000
High-Protein Crops	615,000
Oil Crops	313,000
Poultry	93,000
Silviculture and Wood Properties	200,000
Social Sciences	190,000
Subsidies for Graduate and Post-Graduate Thesis Research	400,000
Sugar Crops	450,000
Tuber crops	175,000
Vegetable Seed Production	276,000
Vegetable Production	238,000
Watershed Management on the Highland	80,000
<b>Total</b>	<b>8,342,000</b>

## ANNUAL BUDGET

Category of Expenditure	Budgetary Allocation (Baht) Fiscal Year 1985
Salary and Permanent Wages	210,451,000
Temporary Wages	1,618,000
Public Utility	23,000,000
Materials and Supplies	64,606,200
Equipment, Land and Construction	45,896,100
Subsidies	17,054,000
Others	1,121,000
<b>Total</b>	<b>363,746,300</b>

### LIBRARIES

The Kasetsart Central Library has a total of 90,190 volumes of books in English, 45,848 in Thai, 10,100 volumes of theses, 100 roles of micro-film and 6,000 sheets of micro-fiche. It subscribes to 2,400 periodical titles in English and 2,450 in Thai.

The faculty libraries have approximately 231,848 volumes of books and journals serving their respective fields.

Since 1980, the Kasetsart Central Library has become the AGRIS National Center and International Buffalo Information Center (IBIC) with the assistance from the IDRC. It also serves as an agricultural library and information center.

### LABORATORIES AND RESEARCH FACILITIES

Kasetsart University had adopted a centralized policy for its scientific laboratory system operation in order to maximize the utilization of research facilities.

Kasetsart University Research and Development Institute (KURDI) operates Central Scientific Laboratory on both Bangkok and Kamphaengsaen Campuses. The Central Laboratory on Bangkok Campus covers an electron and research microscope laboratory, tissue culture laboratory, controlled condition unit, chemical and physiological analysis laboratory. On Kamphaengsaen Campus, laboratory and greenhouses are both centralized and subject matter oriented. Among these facilities are central biochemistry laboratory, soil and fertilizer research center, plant pest clinic and quarantine unit, applied microbiology and culture collection unit, seed technology laboratory, postharvest research unit and environmental science unit.

Off campus there are ten experiment stations for agriculture, fisheries and forestry work and student training. Academic departments also are charged with the responsibility to operate specific laboratories, serving faculty members and in most cases, also serving the general public as part of extension activities of Kasetsart.

The Institute of Food Research and Product Development (IFRPD) presently located on the Bangkok campus offers research facilities in food science and technology for new food products development essential to economic, industrial and agricultural growth. It is charged with specific projects such as the development of low cost protein foods for the generally low income consumers, the development of baby food to effectively supplement early weaning or deficient nutrition level, the development of food products from low cost agricultural produces.

The Radio - Isotope Laboratory is established for research utilizing atomic energy in agriculture.

On Bangkok Campus are located laboratories and research facilities of the Ministry of Agriculture and Cooperatives for agriculture, fisheries and livestock. Through mutual agreement, these facilities are also made available to Kasetsart staff and graduate or advanced - undergraduate students. A number of scientists attached to these various units also serve as part-time lecturers, especially at graduate level.

With the grant aid from the Government of Japan in 1978 and 1980 Kasetsart University has established the Central Laboratory and Greenhouse Complex (CLGC), the National Agricultural Extension and Training Center (NAETC) and the National Agricultural Machinery Center (AMC). All those are located at Kamphaengsaen Campus, Nakorn Pathom, 80 km. west of Bangkok. Three master research projects in agricultural science are being conducted - at the CLGC with the assistance from JICA. We are also looking forward to additional joint research projects of mutual interest with any institution, national or international. The NAETC offers its service in technology transfer to youths, farmers, government officials and also serve scientists from our neighboring countries. The AMC is active in testing and doing development work on appropriate farm machinery. It is hoped that those shall contribute its fair share toward agricultural development of our country and the region.

### FEE

Approximate total minimum a student is expected to spend annually for:

Tuition		
Undergraduate	800	Baht
Graduate and Post graduate	2,500	
Non - citizenship fee		
Graduate	3,000	"
Post graduate	10,000	"
Miscellaneous fees	2,200	"
Room and board	5,500 - 9,090	"

## **SCHOLARSHIPS AND FINANCIAL ASSISTANCE**

- Graduate students : 2 scholarships  
 Undergraduate students : 290 scholarships  
 Part - time employment : part-time work are available for students as laboratory assistants, farm helpers, gardeners, field supervisors, etc.

## **STUDENT SERVICES**

The university maintains 14 units of dormitory capable of housing some 1,950 students on Bangkok campus and 16 units with capacity of 1,550 residents at Kamphaengsaen campus. These Bangkok facilities can accommodate most of the first year students who are encouraged to live on campus and other upper-class students who wish to do so. All students at Kamphaengsaen campus live in dormitories.

The University Infirmary provides minor medical and dental care. A registered nurse is on duty all day. At night and on holidays a medical personnel is available on call. The university physician maintains regular hours for consultation and treatment.

## **COMMUNITY SERVICES**

Kasetsart University has been playing a key role in serving the Thai community in many forms. It strives to assist through research and dissemination of knowledge that may be useful to many professions, for example, the Institute of Food Research and Product Development has taken the lead in producing textured and low cost vegetable protein, low cost infant food for nutrition and health of the low-income group of people, and processing local products for greater cash income. All these, together with marketing trials, are aimed at promoting private enterprises to carry on any promising work initiated by Kasetsart.

Our Highland Agriculture Project has been cooperating with the Royal Project in an effort to replace opium poppy cultivation normally practised by hilltribesmen in Northern Thailand - by other suitable cash-crops and occupation, to conserve soil and water resources through discontinuance of excessive land loss resulted from such slash-and-burn practice, and to introduce new livelihood to those hilltribesmen.

Besides, in order to raise agricultural productivity of the country, Kasetsart University has distributed improved varieties of plants and animals resulting from their research works to the public and provided consultancy services to agricultural industry, farmers and local cooperative farming projects.

The Office of Extension and Training of the University is directly responsible for disseminating new knowledge to the public by coordinating programs in the various fields, including vocational short courses. In the year 1984 almost 1,800 persons had participated in 35 vocational training courses ranging from courses in artificial insemination, beef production, mushroom cultivation, fertilizer application, ice-cream and dairy production, bakery,

wheat production, drawing, typing, dancing, gymnastics, photography to television and radio repair and maintenance. It also issues regular newsprints and offers programs through the airwaves, e.g. radio-broadcast of agricultural information through the network of KU stations from four strategic locations in Bangkok, Khon Kaen, Chiang Mai, and Songkhla. This form of community service covers also an effective training program for students as well.

## **INTERNATIONAL COOPERATION**

### **1. Membership**

- The Asian Agricultural Colleges and Universities (AAACU)
- The Association of Southeast Asian Institutions of Higher Learning (ASAIHL)
- The Asian Vegetable Research and Development Center (AVRDC)

### **2. Academic cooperation**

- The Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA)
- International Rice Research Institute (IRRI)
- University of Illinois at Urbana-Champaign
- Nagoya University
- Kyoto University
- Oregon State University
- Virginia Polytechnic Institute and State University
- State University of New York, Syracuse
- Massey University
- University of Karlsruhe
- University of Giessen

## **PUBLICATIONS**

1. Thai National Agricultural Bibliography (monthly)
2. The Buffalo Bulletin (quarterly)
3. Kasetsart Libraries Newsletter (bi-weekly)
4. The Kasetsart Journal (Social Sciences) (yearly)
5. The Kasetsart Journal (Natural Sciences) (yearly or twice a year)
6. Pig Magazine (quarterly)
7. Kasetsart Veterinarians (tertiary)
8. Kasetsart Extension Journal (bi-monthly)
9. Animal Production (quarterly)
10. Kasetsart Research Reports (yearly)
11. Buffalo and Cattle Bulletin (quarterly)
12. Kasetsart Technical Bulletin (specific topic publication)
13. Research and Technology News (monthly)
14. Central Laboratory and Greenhouse Complex News (monthly)

JICA