

2.4. TUITION FARM

2.4.1. INTRODUCTION

The Tuition Farm is supposed to act as the laboratory ground for students and more specifically for those taking Agriculture. During the year, the pilot farm was completed and handed over in February. Not much activities were carried out during the year due to water problem until the time of the short rains.

It is now hoped that the full farm operation will start because there is now water which has been our handicap.

2.4.2. PERSONNEL

During the year, one person (general worker) was recruited and four members of staff resigned. Those who resigned included the Farm Manager and three demonstrators. The figures are as follows:

Farm Manager	- resigned	Mechanic	- 1
Asst. Farm Manager	- 1	Cleaners	- 2 (from estate)
Demonstrators	- 3	Stores	- 1
Study leave	- 1 demo.	General workers	- 17

One demonstrator was transferred to Horticulture Department.

2.4.3. ACCOMPLISHMENTS DURING THE YEAR

The Pilot farm project was completed during the year in the month of February.

The storage pond was however found to be leaking and hence, repair works had to be done. These were completed by the end of October. The following

fruits were planted during the year:

Passion fruits	- 0.2 hectares
Mangoes	- 0.1 .. "
Avocado	- 0.2 .. "
Citrus	- 40 seedlings

The nursery shed also was built and enlarged to accommodate more seedlings.

In the animal section, ten in-calf heifers were bought from Kitale at a total cost of KShs.44,375.00. One of them died of pneumonia at the close of the year.

On the field crops, a half hectare was put under beans and about 1 hectare under maize.

The animals kept are mainly cattle and pigs. Few problems were experienced during the year. The livestock numbers, births, deaths and sales are presented in the following tables:

CATTLE

<u>Month</u>	<u>Number Beginning of month</u>	<u>Births</u>	<u>Deaths</u>	<u>Sales</u>	<u>Total End of Month</u>	<u>Products Sold</u>	<u>Value of Sales</u>
Jan.	20	1	-	-	21	1176 lt milk	3,534.00
Feb.	21	-	-	1 st*	20	1427 lt Milk Beef	4,261.00 2,406.50
March	20	-	-	1 st	19	1234.5 lt milk Beef	4,153.00 3,033.00
April	19	-	-	1 st	18	1491 Lt Milk Beef	4,473.00 2,000.00
May	18	-	-	1 st	17	1474 lt Milk Beef	4,422.00 2,732.00
June	17	4	-	-	21	13924 lt Milk	4,176.00
July	21	1	-	-	22	1965 lt Milk	5,895.00
Aug.	22	1	-	1 st	22	2202 lt Milk Beef	6,046.00 2,028.00
Sep.	22	-	-	-	22	2479 lt Milk	7,257.00
Oct.	22	1	-	-	23	2562 lt Milk	7,685.00
Nov.	33 (10 bought from Kitale)	1	-	1 st	33	27895 lt Milk Beef	3,360.50 2,109.00
Dec.	34	1	3	1 st	31	29355 lt Milk Beef	5,616.00 8,995.50
Total		(10)	(3)	(7)			<u>85,413.50</u>

* st = Steer

PIGS

<u>Month</u>	<u>Number Beginning of Month</u>	<u>Births</u>	<u>Deaths</u>	<u>Sales</u>	<u>Total End of Month</u>	<u>Products sold</u>	<u>Value of Sales</u>
Jan.	55	-	6 p*	2	47	Pork: 83 kgs	1,312.00
Feb.	47	-	-	2	45	Pork 74 kgs	1,474.00
March	45	-	-	8	37	Pork	5,705.00
April	37	-	-	6	31	Pork	4,433.00
May	31	2 sow - (22 p)	-	-	53	-	-
June	53	2 sow - (17 p)	1 p	8	62	Pork	4,676.00
July	62	-	3 p	4	55	Pork	2,268.00
Aug.	55	-	3 p	45	7	Womers + Fats	7,932.00
Sept.	47	-	-	-	7	-	-
Oct.	7	-	-	-	7	-	-
Nov.	7	1 sow - (9 p)	-	-	16	-	-
Dec.	16	3 sow - (27 p)	-	-	43	-	-
Total		(75)	(13)	(75)			<u>27,900.00</u>

* p = Piglet(s)

For the Field Crops, the leaking dam caused a lot of delay in planting such crops. This being a marginal area, very little can be done without irrigation. The only crop which was planted during the long rains was potatoes. These did not do well and the harvest was not encouraging at all. The potatoes yielded 1,000 kgs, valued at KShs.839.00. Beans and maize were planted during the short rains. The yield could not be given since the crops were still in the field at the end of the year. Some vegetables were grown on demonstration plots and were sold to members of staff. The income raised from the sales can only be given from the Finance Office.

The Farm benefitted much from its machinery e.g. ploughs, harrows, tractors, bull dozer, wheel loader or dump truck etc., which remained in good working order during the year.

2.4.4. PROBLEMS

The only problems experienced were the dry spell and a number of theft cases at the farm.

3. FACULTY OF ENGINEERING

3.1. DEPARTMENT OF BUILDING & CIVIL ENGINEERING

3.1.1. STAFFING POSITION

TEACHING STAFF (LOCAL)

M.S. Ibrahim	-	Head of Department (From September, 1985)
H.G. Mwaure	..	Ag. HOD upto August, 1985 (on study leave)
Abogi Akumu	-	Deputy HOD/Course Tutor (Architectural)
J.K.Z. Muatazah	-	Surveying and Mathematics Section
D.M. Munyi	-	Concrete and Soil Mechanics Laboratories
T.G. Muturi	-	Assistant Course Tutor - Irrigation (on study leave)
S.N. Mborothi	-	Workshop Practice (Plumbing)
N.W. Wambugu	-	Workshop Practice - Carpentry (on study leave)
P.M. Wanderi	-	Course Tutor (Building Construction)
N. Karuma	-	Workshop Practice (Carpentry)
E.M. Wanyaga	-	Workshop Practice (Masonry)
D.G. Waweru	-	Mechanics of Structures
F.W. Simba	-	Assistant Course Tutor - Architectural (on study leave)
F.M. Rwanda	-	Quantity Surveying
S.B.A. Otera	-	Mechanics of Structures
G.J. Kamaru	-	Building Construction
G. Wanyona	-	Quantity Surveying (on study leave)
P.N. Kamau	-	Workshop Practice (Masonry)
S.K. Mugera	-	Irrigation Engineering
J.W. Kimani	-	Building Construction/Economics

JAPANESE STAFF -- EXPERTS

S. Kimura	-	Architectural Design and Drawing
N. Arai	-	Concrete and Soil Mechanics
Y. Okada	..	Architectural Design and Drawing
Dr. I. Kyu	..	Public Health Engineering

VOLUNTEERS

T. Watanabe	..	Irrigation Engineering and Hydraulics
Y. Furuki	..	Land Surveying

TECHNICIANS

F.M. Kamami	-	Incharge of Concrete and Soil Mechanics Laboratories
J.M. Gichira	-	Plumbing Workshop
J.G. Muangi	-	Surveying Section
P.K. Muruga	-	Hydraulics and Building Science Laboratories
A.K. Muiru	-	Masonry Workshop (artisan)
M.N. Muhia	-	Carpentry Workshop "
R. Ogeto	-	Masonry Workshop "
J.K. Ngugi	-	Carpentry Workshop "
J.N. Kareithi	-	Concrete and Soil Mechanics Lab./Drawing Office

STAFF WHO JOINED THE COLLEGE IN 1985 (LOCAL)

S.B.A. Otera, J.G. Kameru, F.M. Rwanda, and Y. Furuki.

STAFF DEPARTURES

D.M. Munyi	-	Kenya Polytechnic (on promotion)
James Wakaba	-	Unpaid study leave of two years
S.K. Mugeru	-	Left for The National Environmental Secretariat.

3.1.2. ACADEMIC ACTIVITIES

(a) EXAMINATIONS

The results of KNEC examinations Parts II and III conducted in June/July 1985 were as follows:-

<u>COURSE</u>	<u>Total Number of Candidates</u>	<u>Overall Pass %</u>
<u>Part III</u>		
ART	9	78
IRT	13	93
ECT	12	92
<u>Part II</u>		
AR*	13	100
IRI	15	73
ECT	15	93

(b) RESEARCH CARRIED OUT

The following research were conducted during the year:-

Properties of Sand in Kenya as Construction Material by Messrs. N. Arai and D.M. Muryi. (The expected date of completion is middle of 1986).

Sludge Dewatering by Dr. I. Kyu, A. Hiratsuka and G. Muturi.

Oxidation Pond Sludge characteristics by Dr. I. Kyu and A. Hiratsuka.

Nightsoil for Biogas by Dr. I. Kyu and G. Muturi.

A survey on Teeth Mottling Incidence as related to drinking water source by Dr. I. Kyu.

A household Technique for Fluoride removal from drinking water by Dr. I. Kyu.

Environmental aspect of African Drought and Hunger by Dr. I. Kyu.

(c) STUDENT PROJECTS COMPLETED DURING THE YEAR

- Typing Pool in the Faculty of Engineering block (it is now being used as staff office).
- First Aid Kit boxes.
- Storage water tank for Hydraulics Laboratory.
- Materials and Timber Yerd - Rails are being awaited before fixing the sliding door.

(d) UNCOMPLETED PRACTICAL PROJECTS

- Gas cylinder chambers - fixing of tower bolts is yet to be done.
- Building structure for practice use - window frames are being made by Mechanical Engineering Department. Also, electrical wiring has to be done by the electrical department.

(e) PROPOSED STUDENTS PRACTICAL PROJECT

- Four type 'D' staff houses
- Covering Masonry Workshop with roof
- Covered shed for concrete and Bitumen testing
- Extension of Carpentry and Plumbing Workshop

(F) EDUCATIONAL VISITS DURING THE YEAR

The following educational visits were made which contributed tremendously to the acquisition of appropriate practical knowledge:-

25.1.85	-	Clayworks Ltd. (Thika Road)
30.1.85	-	Kariobangi Sewage Treatment Works
1.2.85	-	Meteorological Department (Dagoret)
4.2.85	-	Kenya National Sports Complex (Kasarani)
5.2.85	-	Kindaruma, Kiambere and Kamburu dams
1.3.85	-	Kariobangi Sewage Treatment Works
8.3.85	-	Kikuyu Steel Rolling Mills
11.3.85	-	Karen Appropriate Technology Centre
15.3.85	-	Mitunguu Irrigation Project
6.6.85	-	Economic Housing Group (Naivasha)
28.6.85	-	Mwea Irrigation Scheme (Embu)
4.7.85	-	Sokoro Fibriboards (Elburgon)
12.7.85	-	Karen Appropriate Technology Centre
26.7.85	-	Kiambere and Kindaruma dams
4.10.85	-	Twiga Paints
7.10.85	-	Kenya National Sports Complex
8.10.85	-	Survey of Kenya
22.10.85	-	Athi River Cement Works
8.11.85	-	Twiga Paints

3.1.3. MAJOR EQUIPMENT RECEIVED

(a) SOIL MECHANICS LABORATORY

- Sand Cone with plate (1 set)
- Marshall Test apparatus (1 set)
- Falling Head Permeability Test apparatus (1 set)

(b) PUBLIC HEALTH LABORATORY

- Hot plate with transformer (2 sets)
- Drying Oven (1 set)
- Electronic Reading Balance (1 set)
- Auto Digital Flame Photometer with transformer (1 set)
- Jar tester (1 set)

3.2. DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

3.2.1. STAFFING POSITION

Local Staff

F.G.M. Nalwa (SL)
E.W. Mwangi (L)
J.M. Mwangi (AL)
J.K. Gathitu (L)
D. K'andiki (AL)
S. Musvoki (L)
E.M. Mwaniki (AL)
S. Nyaga (L)
J.M. Kabiru (AL)
P.M. Ndunda (AL)
A.N. Manyara (AL)
E.N. Ndung'u (AL)

Japanese Experts & Volunteers

T. Okubo (Expert)
T. Tazuki (Expert)
H. Kanatani (JOCV)
Z. Inoue "

Supporting Staff

J.H. Gachoki (BOB)
E.K. Mbetia "
A.H. Githaiga "
G. Kibunja "
H.I. Kuria "
J.M. Kini "
S.W. Kamangu "
J.M. Maina "
P.K. Njoroge "
R.W. Kinuthia (P/O) (BOB)
E.W. Karogo (Miss) "

STAFF ARRIVALS

From Study Leave

J.O. Owino (AL)
J. Konyango (AL)
C. Wamalwa (AL)

New Staff

P.O. Oketch (AL)
G. Kabucharu (AL)

DEPARTURES

P.K. Kamau (Study Leave) (AL)
M.F. Kisingu " " "
C.O. Otieno " " "
H. Fukada (Volunteer - returned home after his term of service).
B.K. Munyira - Resigned at the end of 1985.

SUMMARY

Establishment: 31 Teaching Staff Vacancies: 5 teaching staff
12 Supporting Staff 1 supporting staff

3.2.2. DEPARTMENTAL PROGRAMMES

The department did not experience any special problems internally in carrying out its programmes. The external problem which has forced the department to change in training programme is the lack of accommodation due to non-construction of the 5th hostel. This has forced the department to attach all its students during the practical terms outside the College contrary to its initial intention of having all the training done internally.

3.2.3. ACADEMIC ACHIEVEMENTS

The syllabi being undertaken by the department for its two courses are adequately covered as evidenced by the performance of students at external examinations. Results released by Kenya National Examinations Council for 1985 are as follows:

Part I: (Taken in Nov/Dec 1984, results released in 1985)

Electrical Installation Technician: 9 candidates, Pass 8, referred 1.
% Pass = 88.9%.

Radio, Television & Electronics Technician: 12 candidates, Pass 12.
% Pass = 100%.

Part II

Electrical Installation Technician: 12 candidates, Pass 11, Referred 1.
No failure, % Pass = 91.7%

Radio, Television & Electronics Technician: 15 candidates, Pass 15.
% Pass = 100%

Part III

Electrical Installation Technician: 13 candidates, Pass 12, Referred 1.
No failure, % Pass = 92.2%.

Radio, Television & Electronics Technician: 8 candidates, Pass 8.
% Pass = 100%.

The results for Part I examination taken on November/December, 1985 are still being awaited.

3.2.4. PROJECTS

Due to the change of programme caused by the accommodation problems in the college, there were no specific projects undertaken by the department. There were minor projects done during workshop practice e.g. transformer winding, motor winding, T.V. assembly, sound mixer etc. These items were exhibited during graduation.

3.2.5. OUTSIDE VISITS

Two types of visits are conducted by the department every year. The first one is educational visit by both staff and students to firms of interest. These firms were:

<u>Name of Firm</u>	<u>Date</u>
1. Kenya Institute of Mass Communication	20th September, 1985
2. Sanyo Amco (Kenya) Ltd.	31st May, 1985
3. Kindaruma Power Station	24th May, 1985
4. Tana River Power Station	27th September, 1985
5. Kenya Posts & Telecommunication	18th October, 1985

The second one is by staff to firms where our students are attached during their practicals. Some of the firms visited are:

<u>Name of Firm</u>	<u>Date</u>
Ministry of Works, Industrial Area & K.N.H. Depot	30th May, 1985
Voice of Kenya	6th June, 1985

3.2.6. STAFF DEVELOPMENT ACTIVITIES

Apart from Overseas study tours, some of the staff were involved in syllabus development at Kenya Institute of Education in February and May, 1985. The Head of Department attended a mini CAPA Workshop as a resource personnel in April at the Mombasa Polytechnic.

3.2.7. DEPARTMENTAL STAFF MEETING

During the term dates, the department held staff meetings once every month. This was on the first Monday of every month starting at 02.15 p.m.

3.2.8. DEPARTMENTAL INVENTORIES

Every year, the department receives permanent equipment from both locally and Japan. A few of the equipments received in 1985 were: 6 terminal induction motor, transistor, diode tracer/checker, room writer etc.

3.2.9. VISITORS WHO VISITED THE DEPARTMENT

The purpose of the visits was to see training facilities in the department and what the students are capable of doing, some of the visitors came for educational visits. Among many of them were:

1. Public Service Commission - 16th October, 1985
2. Karurumo Village Polytechnic - 26th July, 1985
3. Senior Staff from Egerton College - 27th September, 1985 etc.

3.3. MECHANICAL ENGINEERING DEPARTMENT

3.3.1. STAFFING POSITION

<u>Name</u>	<u>Subject Area</u>	<u>Designation</u>
N. Boro	Engin. Design/Drawing	Dean/HOD (PL)
J.M Gachaki	" " "	Lecturer
A.C. Juma	Construction Plant	"
I.K. Inoti	Agricultural Machinery	"
J.M. Kabira	Welding/Fab	Assistant Lecturer
R.G. Karue	Mathematics	Lecturer
P.N. Kiarie	MV Practice	Assistant lecturer
J.G. Kigia	MV Technology	" "
S. Kamau	Drawing	" "
G.G. Kung'u	Workshop Technology	" "
T.K. Magira	Drawing	" "
S. Mugo	MV Technology	Lecturer
S.N. Mwiru	Agricultural Machinery	Assistant Lecturer
D.K. Mukundi	Construction Plant	" "
J.W. Mutheke	Design	" "
H. Mwai	Mechanical Workshop	" "
S.M. Maina	MV Technology	" "
J.N. Ng'ang'a	Mechanical Workshop	Senior Lecturer
A.C. Njoroge	Construction Plant	Assistant Lecturer
K. Nyaga	Mechanical Workshop	" "
A.O. Odawa	Tractors	Lecturer
G.N. Mwangi	Mechanical Science	Assistant Lecturer
M.F. Oduori	Tractors	" "
I. Wainaina	MV Practicals	" "
J.M. Wanjau	Mechanical Science	Lecturer
S. Wanjii	Mechanical Sc./Maths	Assistant Lecturer
G.G. Wanyoike	Mechanical SC./Maths	" "
G.N. Thoigu	Welding/Fab.	Lecturer
E. Morita	Construction Plant	(Expert) JICA
K. Hasegawa	"	"
Prof. Abe	Agricultural Machinery	"
T. Inoue	"	JOCV
H. Yamamoto	MV/ Practical	"

STAFF ARRIVALS AND DEPARTURES

Messrs. S. Kamau, G.G. Kung'u, T.K. Magira and G.W. Muangi were recruited by the T.S.C. Prof. Abe also joined as an expert.

Messrs. J.G. Kigia, J.M. Kabira and G.M. Wanjau departed for JICA Training in Japan. Mr. P.K. Bonsté resigned.

UNFILLED VACANCIES

Senior Lecturer, Motor Vehicle

Senior Lecturer, Mechanical Laboratories

Assistant Lecturer, Construction plant.

3.3.2. ACADEMIC PROGRAMMES

The students' performance in Examinations were quite good. The table below is a summary of the overall passes.

<u>Subject</u>	<u>Year</u>	<u>D</u>	<u>C</u>	<u>P</u>	<u>R</u>	<u>F</u>
Agricultural Machinery Part II Technician	1984	0	1	0	6	3
	1985	0	1	8	1	0
Motor Vehicle Technician II	1984	0	0	6	4	3
	1985	0	5	6	2	1
Construction Plant Technician II	1984	0	0	2	6	4
	1985	0	6	4	1	0
Agricultural Machinery Technician III	1984	-	-	-	-	-
	1985	-	-	-	-	-
Motor Vehicle Part III	1984	-	-	-	-	-
	1985	0	3	4	0	0
Construction Plant Part III	1984	-	-	-	-	-
	1985	-	-	3	0	0

STUDENT PROJECTS

- Water hand operated pump
- Hammer Mill
- Centrifugal pump
- Reversible moldboard plough

INDUSTRIAL ATTACHMENT

1984 intake undertook their attachment in College. For two months, they were residents and for the last month, they were paid out and resided outside the college.

1982 intake undertook their attachment in the various government departments during September/December term. All was smooth. Attachment follow-up by Lecturers were made and all the students were visited by Lecturers at their duty stations at least once.

RESEARCH: No research was undertaken that year. -

3.3.3. PROBLEMS EXPERIENCED

- Procurement of materials continued to take very long time and at times (May - September) there was no welding gas in the workshops causing welding lectures to be suspended.
- Spares for machines from Japan have not arrived and therefore, some equipment have remained grounded.

3.3.4. ADDITION TO THE INVENTORY

An assortment of equipment were received from Japan for Construction Plant Course.

3.3.5. IMPORTANT EVENTS OF 1985

- JANUARY:
- The department of Mechanical Engineering mounted Part III Technician Courses in both Motor Vehicle and Construction Plant.
 - Mr. J.G.H. Isiaho and Mr. Kamau Kinga were recruited as Part Time Lecturers to teach Commercial Practice and Law respectively.
 - Mr. L. Akwiri in the Mechanical Workshop was injured by a Lathe Machine and lost some fingers.
 - The Department welcomed Messrs. G.G. Kung'u, P.K. Bonnett, T.K. Magira, G.N. Muangi and S. Kamau as new lecturers.

FEBRUARY: Mr. Bonnett, a Lecturer in Mechanical Engineering resigned and Mr. J.G. Kigia left for Japan.

- MARCH:** The Department was visited by Nyeri Industrial Estate and Alliance High School. Some Lecturers visited ATAC (Appropriate Technology Exhibition).
- APRIL:** Some Lecturers attended B-4-4 Workshop (Technical) at KIE. Mr. J.M. Kabira left for Japan. a Seminar on Projects and Industrial attachment took place in Mombasa and HOD (Mechanical) represented the department.
- MAY:** The department was visited by Secretary JOVC (Japan Overseas Volunteer Cooperation). Mr. Kamsu Kinga withdraws from Lecturing and Miss Masilia, J.M. takes over as Part Time Lecturer in Law.
- JUNE:** Part III projects for MVT and LPT students were to be submitted before 15th June, 1985. The PSC (Public Service Commission) visited the Department to find out the training problems encountered.
- JULY:** The 1985 intake arrived in the College. The Department was also represented at the course panel of KIE at Nyeri. The Technician Examination for Part II & Part III took place.
- AUGUST:** TSC interviews took place and some Lecturers were promoted. Prof. Abe reported to the department to take up duties as expert in Agricultural Machinery.
- OCTOBER:** The Department was represented at the ASK (Agricultural Society of Kenya) international show in Nairobi.
- NOVEMBER:** The 2nd Graduation of the College took place and all Departmental Candidates for Part III passed the examination and graduated. Part I examinations were done. The zonal and interzonal games were held in the College.
- DECEMBER:** The current HOD (Mechanical) became the Dean of Engineering and the position of Deputy Head of Department was created and filled. All Departmental tours and field attachment trips by Lecturers were successful.

4. OTHER ACADEMIC DEPARTMENTS

4.1. GENERAL STUDIES DEPARTMENT

4.1.1. INTRODUCTION

The purpose of General Studies is to help the students appreciate knowledge in other disciplines as well as prepare them to face real life situations when they leave College.

The department continued to offer courses to students and most of them showed a lot of interest in these courses. During the year, the following courses were taught:

Language and Communication I	Communication II
Report Writing	Rural Sociology, and
Government Procedure.	

4.1.2. STAFFING POSITION

Mr. C.M. Gecaga	..	Lecturer/Ag. HOD (upto Sept. 1985)
Dr. L.W. Wahome (Mrs)	..	Lecturer/HOD
Mr. J.M. Kaudo	..	Lecturer
Mrs. R.N. Maina	..	Assistant Lecturer

4.1.3. STAFF DEPARTURE

In October, Mr. Gecaga left the College to join Kenyatta University for further training. At the time of his departure, he was the Acting Head of Department, served in various committees and was the patron of the Christian Union and Wildlife Club. He had done a lot to help improve the department and whereas we wish him all the success in school, we do miss him.

4.1.4. STAFF ACTIVITIES

Staff took a trip to Egerton College on January 23rd and visited the Departments of Education and Extension and the Library. The purpose of this trip was to share with teachers in those departments and get as much help as possible in developing our course outlines.

Mr. Gecaga attended three workshops during the year as follows:

- (a) 10th - 16th February, 1985 at Kabarnet: A workshop on evaluation of Basic Education and Training Programs organised by the College of Adult and Distance Education, University of Nairobi, and sponsored by the German Foundation for International Development.

- (b) 2nd - 16th June, 1985 at Jadini Beach Hotel, Mombasa: A similar workshop as in (a).
- (c) 4th - 10th August, 1985 at Egerton College, Njoro: Kenya National Examinations Council item writing workshop.

Mr. Gecaga in addition carried out an evaluation study on attitudes of teachers and students towards General Studies Courses. The final report has not been handed to the department.

The department, in conjunction with the Executive Committee of the Students Council organised the Guest Speaker series.

Mrs. Maina was a member of the Library Committee which also served as the Editorial Board for the College Magazine.

During the December holidays, Mr. Gecaga and Mrs. Maina were involved in marking the Kenya Certificate Examinations.

4.1.5. PROBLEMS DURING THE YEAR

The department continued to suffer from lack of efficient secretarial and messenger services. It is hoped that this problem will be looked into so that the department can offer better services to the rest of the College departments.

4.1.6. CONCLUSION

The department is offering very vital courses to students. The necessity of such subjects cannot be overemphasised. However, there still lacks qualified professionals for some of the courses that are supposed to be taught. It is hoped that in future, lecturers with more relevant training will be hired.

4.2 THE COLLEGE LIBRARY

4.2.1. STAFFING POSITION

R.M. Kanonda	..	Senior Lecturer/Librarian
P.A. Gokuru	..	Assistant Librarian (left February 1985)
I.K. Njuguna	-	Senior Library Assistant (Study leave, Australia)
J.B. Maingi	..	Senior Library Assistant
P.M. Nzioka	..	"
L. Ogutu (Miss)	..	" (from April, 1985)
S. Wainaina (Mrs.)	-	"
M.N. Mwaura (Mrs.)	..	Library Assistant I
F.W. Muturi (Miss)	..	"
R.N. Mwangi (Miss)	..	"
W.G. King'ori	-	" (left in June, 1985)
E.N. Mwangi	-	Library Assistant II
J.M. Kuria	..	Library Attendant
C. Karoya	-	"
G.W. Gichimu	-	Machine Operator
L.N. Kago (Miss)	-	Messenger
J.N. Mwaura (Miss)	..	"
G.M. Kinyanjui	-	Cleaner
L.W. Kabara	..	Secretary

4.2.2. STAFF AFFAIRS

In April 1985, one trainee, Mr. R.M. Njogu returned from Kenya Polytechnic after qualifying for the Library Assistant Certificate. He was subsequently promoted to Library Assistant I, Job Group 'F'.

In February, 1985, a Senior Library Assistant left for Australia to undertake a Library Degree Course.

4.2.3. LIBRARY OPENING HOURS (Term Time)

Week days 8.00 a.m. - 10.00 p.m.; Saturdays 8.00 a.m. - 3.00 p.m.

Total number of hours = 77.

Note: During the College holidays, the library opens during office hours only.

4.2.4. UTILIZATION OF LIBRARY RESOURCES

The following statistics show an increase in the utilization of library resources:

<u>Registered Library Users</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>
Students	590	621	822
Teaching Staff	70	100	133
Technicians	40	93	100
Non-Teaching Staff	100	151	182
TOTAL	806	965	1237
Book Loans - Daily	150	210	320
Book Loans - Weekly	900	1260	1730
Books out of the Library on loan	2000	2900	3210
Number of Short Loan Collection to Students and Staff	2000	3120	3320
Number of Special Collection to Staff	480	824	903
Inter-Library Loans	480	184	209

4.2.5. STOCK

	<u>1983</u>	<u>1984</u>	<u>1985</u>
Books in Volumes	7543	8323	10231
Periodicals Received Titles	--	37	67

4.2.6. DONATIONS

Notable among donors during 1985 are:

(a) BOOKS

The British Council	-	65 Titles, 78 Volumes
Japan International Co-operation Agency (JICA)	-	231 Titles, 313 volumes
Japanese Team (JKCAT)	-	11 Titles, 16 Volumes

(b) SPECIAL MATERIAL (REPORTS ETC)

Ministry of Agriculture
United States Agency for International Development
Ministry of Finance, Central Bureau of Statistics
Japan International Cooperation Agency (JICA)
International Rice Research Institute
Food Agricultural Organisation (FAO)
United Nations International Development Organisation (UNIDO)

(c) (i) PERIODICALS: REGULAR DONORS

Japan International Cooperation Agency (JICA)	-	12 Titles
Japan Trade Centre	-	1 Title
Coffee Board of Kenya	-	"
International Council For Research in Agro-Forestry	-	"
International Institute of Tropical Agriculture	-	"
Institution of Electrical Engineers	-	"
The Courier ACP - EEC	-	"
Agribusiness Worldwide	-	"
Asian Vegetable Research & Development Centre	-	2 Titles
United Nations University	-	1 Title
Volunteers in Technical Assistance	-	"
Al-Quran Society	-	"
German Foundation For International Development	-	"

(ii) OTHER DONORS (Single Issues)

Mr. Akimoto	-	4 Titles
Japanese Team	-	19 Titles
Mr. Mureithi, Dean of Engineering	-	10 titles
Professor Iwasa	-	1 Title

The JKCAT Library acknowledges their trust and confidence in the future of the College and thanks them most sincerely.

4.2.7. INVENTORY

A Rank Xerox 1045 photocopier with a reducing facility was received.

4.2.8. JAPANESE EQUIPMENT

A manual Duplicator was received during the year under review. We have now been able to use the Ricoh Autoprinter. The Card Printer is still not fully in use due to a breakdown after a brief period of use.

4.2.9. STOCKTAKING

The Library stocktaking was undertaken in April 1985 and about 200 titles were found missing.

4.2.10. CATALOGUING AND CLASSIFICATION

The Library book stock has been catalogued and classified using the Library of Congress Scheme. The Library produced two accession lists during the year. A public catalogue is now in preparation.

4.2.11. REPROGRAPHIC SERVICES - PHOTOCOPYING

In 1985, 254,000 photocopies were made, an average of 21,000 photocopies per month. We produced a number of high quality documents at the Reprographic Unit. Notable among these were the Graduation Programme and the Zonal and Inter-Zonal Games Programmes.

4.2.12. PROBLEMS

Major problems during the year under-review were: Inadequate staff houses; inadequate furniture; lack of Essential Books; lack of adequate security through the windows, and lack of emergency security lights.

4.2.13. LIBRARY DEVELOPMENT PLAN

Following a Japanese Mission's visit to the College, a Library Development Plan was requested for. To develop the plan, a Text Book Survey was started and results analysed towards the end of the year. An initial draft of the Library Development Plan was issued in November 1985. It is expected that this will be finalised in early 1986.

4.2.14 OUTLOOK FOR 1986

Text Books: Following the Text Book Survey, a list of essential textbooks for each course were compiled. A proforma has been requested from Britain. These books will be purchased using JICA funds.

Buglar Proofing: It is anticipated that the library will be suitably burglar proofed.

Information Bulletin: The Library Information Bulletin containing book and periodical news will be launched in early 1986.

Donations: We are looking forward to adding our stock through the provision of the normal budget, as well as through donation from various sources such as JICA, British Council and the Netherlands Literature Programme.

5. NON-ACADEMIC DEPARTMENTS

5.1. ESTATES

5.1.1. RESPONSIBILITIES

This department is charged with the responsibility of repairs, maintenance and improvement of college buildings and services therein and thereof. It is also responsible for all the landscaping works and general cleanliness of the facilities. It is therefore an important service department.

5.1.2. STAFFING POSITION

The department has a staff establishment of ninety (99), of which ninety two (92) have been filled leaving five posts vacant. The posts are distributed as follows:

Maintenance Officer	-	1
Foreman	-	4
Artisans/Technicians	-	10
Boiler Attendants	-	4
Head Cleaners	-	6
Cleaners	-	35
Ground Staff	-	<u>32</u>
Total		<u>92</u>

The vacant posts are for a Building Inspector, a Mechanical Inspector, and for three Artisans.

The department is headed by a Maintenance Officer and it is capable of doing most of the maintenance and repair works except in case of electronic and motor vehicle repairs. It should be noted that these two trades are not yet manned.

The department has not had any case of resignation but had one case of a plumber whose services were terminated. In the case of new recruitment, a plumber and a mason joined the artisans while the groundstaff were joined by eight new people.

The two boiler attendants continued to attend the in-service course at Mombasa Industrial Training Centre.

5.1.3. PROGRAMMES

1985 was rather a busy year for it started with the preparation of the compound because of the official handing over of the farm project to the Kenya Government in February.

The next programme was preparation for the second graduation in November whose guest of Honour was His Excellency the President.

The year ended with the inter-zonal games hosted by the College and the department was charged with the responsibility of marking all the new and old sports fields and fabrication of goal posts. The department completed 1,300 works orders of various magnitude with a total material cost of KShs.600,000 which is an increase of about 33% from last years figure of KShs.450,000.00.

The department enjoyed the services of two (2) boreholes which were within the farm project, handed over to the Kenya Government in February. However, the yield of these together with the old boreholes was still not enough for the college. We therefore continue to face shortage of water although not as serious as in 1984.

5.1.4. SPECIAL PROJECT

The major project undertaken by this department was the construction of the Presidential Dais for the second graduation. The dais was made permanent in order to cater for future graduations and such functions.

We also finished fencing the proposed estate yard with chain link. Two electrical food warmers were converted to steam because of lack of 3 phase elements for the same locally.

5.1.5. LANDSCAPING

The department shifted its nursery from the demonstration farm area to another location for ease of management. The nursery has about 6,000 tree seedlings and about 1000 flowers ready to be planted in March/April of 1986.

5.1.6. CONCLUSION

It is the aim of this department to turn this dry area into a real green belt and to reduce the rate of delapidation of the college buildings and fittings to the minimum at a minimum cost but satisfying the users of these services to the maximum.

5.2. FINANCE DEPARTMENT

INTRODUCTION

The Finance Department is part of the Administration in the College. It is headed by the Finance Officer who is responsible to the Principal in matters pertaining to the College finances. The Department is composed of the following sections:-

General Accounts Office, Supplies Office, Registry, Transport Office and the Typing Pool.

5.2.1. STAFFING POSITION

During the year ending 31st December, 1985, the Department was staffed as follows in order of offices:-

<u>Name</u>	<u>Designation</u>	<u>Name</u>	<u>Designation</u>
B.G. Məhuqu	- Ag. Finance Officer	T. Omondi	- Accountant III
A. Muchiri	- Accounts Clerk	S.P. Wambugu	- Accounts Clerk
C. Gathua (Miss)	- Cashier	J.G. Kanogu	- Office Messenger
B. Waiṭhaka (Miss)	- Machine Operator	I. Kabi (Miss)	- Cleaner
R. Kariuki (Miss)	- Shorthand Typist	M. Meria (Miss)	- Cleaner
E. Waitindi	- Registry Clerk	J. Katiku (Miss)	- Registry Clerk
J. Cheruiyot	- Stores Clerk	G. Waruhiu	- Stores Clerk
C. Muakavi	- " "	D. Kamunya	- " "
P. Makovu (Miss)	- " "	J. Gitonga	- " "
E. Kariuki	- " "	F. Kareithi	- Driver
N. Njoroge (Miss)	- Copy Typist	J. Maina	- "
T. Warui	- " "	E. Ndung'u	- "
P.K. Milgo	- Accountant III	S. Kariuki	- "
P.O. Radiere	- Bursar	N. Ndwiga	- "
B.S. Kariuki	- Executive Officer	Arap Too	- "

5.2.2. STAFF DEPARTURES

Due to various reasons, Miss A. Mwangi (stores clerk), J.O. Mac-Okayo (Supplies Assistant) and P.O. Radiere (Bursar) left employment.

5.2.3. STAFF DEVELOPMENT

During the year, Mr. G.G. Mahugu attended CPA III course at KIA and Mr. S.P. Wambugu attended CPA I Course at Kenya Polytechnic.

5.2.4. FINANCIAL POSITION

The College's financial position was healthy and sound. There were two major current accounts, namely: Main Account and Board of Governors Account.

MAIN ACCOUNT

The following continued to be the Main Account's sources of funds:

1. Treasury Grants and Grants in Aid.
2. M.E.S.T. tuition fees, other sponsors and students allowances.

MAJOR EXPENDITURE VOTE HEADS

Board of Governors Salaries; Teaching Equipment and Stores in Faculties; Boarding Equipment and Stores; Electricity, Water and Conservancy; Local Transport and Travelling; Contingencies; Repairs, Maintenance and Improvement; Non-recurrent expenditure.

BOARD OF GOVERNORS ACCOUNT

This is a savings account and its sources of income are revenues from the following:-

Sale of boarded stores; Sale of Farm Produce; Cafeteria Sales; Miscellaneous Receipts.

5.2.4. SPECIFIC PROBLEMS

The Department faced the following problems:-

1. Lack of Staff houses
2. Inefficient transport facilities owing to frequent motor vehicle breakdown.
3. Insufficient documentation particularly in Supplies Office and therefore pending work due to shortage of qualified staff.
4. Insufficient office machines e.g. typewriters and calculators.
5. Frequent computer breakdown, resulting in delays of essential matters, e.g. preparation of Trial Balances etc.
6. Insufficient office accommodation.
7. Serious water shortages.
8. Insufficient filing system and lack of proper shelves for files in Accounts, Stores and Registry Offices.
9. Insufficient office furniture, e.g. tables, chairs, cabinets, packs etc. for stores, registry and accounts offices.

5.2.5. ACHIEVEMENTS

During the year, the department achieved the following:

1. Prompt payment of creditors on a monthly basis.
2. Financial statements were prepared for the year ending 30th June, 1985.
3. Efficient preparation and payment of salaries and statutory deductions.

5.3. HALLS & CATERING DEPARTMENT

5.3.1. INTRODUCTION

1985 had been a successful year although we experienced problems here and there.

5.3.2. STAFFING POSITION

Margaret W. Gathiga	-	Halls & Catering Manager.
Sannah K. Wagitu	-	Cateress/Housekeeper.
Martha Karago	-	Cateress
Ida Masai	-	"
Olive Njenga	-	Cateress/Housekeeper.
Purity Mwangi	-	"
Elizabeth Gichuru	-	Cateress
Josphine W. Thuo	-	Laundry Supervisor

These were assisted by a team of 1 head cook, 1 assistant Head Cook, 11 cooks, and 14 kitchen hands. We also had six cleaners for the hostel seconded to us from the estates.

STAFF ARRIVALS & DEPARTURES

In July, 1985, Henry Mamau who had left in 1984, came to join us once again as a head cook.

5.3.3. CONFERENCES & SEMINARS

During the year, the College offered its facilities to a number of external organizations during the vacation. Approximately 100 members of the Central Province Heads Association made use of our facilities. They held a seminar from 23rd to 26th April.

During the August vacation, about 200 tutors for agriculture and home science held their inservice national seminar from 12th to 17th August. During the same month, 300 tutors for agriculture and biological science also held their inservice seminar from 19th - 24th August.

On November 23rd and 24th, we catered for sports officials for the Southern Zone and on 30th and 31st, we catered for the officials of National Inter-Zonal games.

The other organization which made use of our facilities was Kenya National Examinations Council. About 400 examiners from all over the country carried out the marking of various national examinations. For the third time, this group kept us so busy for the whole of the month of December, such that some staff had to be on duty even on Christmas Holiday.

5.3.4. V.I.P.s AND OTHER GUESTS

one of the most important event during the year was our 2nd graduation ceremony which was held on 15th November, 1985. During the occasion, we had the honour to cater for His Excellency the President who was the guest of honour together with other distinguished guests. Among many other visitors, we also catered for the Board Members as they met and also many Japanese

5.3.5. PROBLEMS ENCOUNTERED DURING THE YEAR

Before the year ended, we experienced many problems. Most of those had been mentioned before. There was acute water shortage almost throughout the year. It was difficult to maintain cleanliness in both the kitchen and hostels. Furniture, especially in both staff and students dining halls had been a problem.

The kitchen stores are not adequate. Dry grocery stores are too small to accommodate what we require for a reasonable time, therefore we are forced to order items to last just for a short time. At present, we have no vegetables & fruits store. The goods are stored in an ordinary store without proper ventilation and they cannot last for more than 2 days without going bad.

We continued to experience lack of enough and skilled staff. Although we had one or two replacements, we still required additional qualified staff.

5.3.6. IMPORTANT ADDITIONS TO THE DEPARTMENTS INVENTORY

During the year, we managed to install more equipment in the kitchen. We installed a bain marie counter in the staff dining hall and a tilting pan in the kitchen. Apart from installing new equipment, we also managed to put back in order a few of the equipment which have been out of order for a long time. An electric food warmer was converted into a steam one and it is doing well.

Installation of more furniture was done in hostels II and IV and the students are now comfortable.

5.4. COLLEGE DISPENSARY

During the year, there was a rise in both students and staff population. This also meant an increase in the number of patients attended in the Dispensary. An average of 80 patients per day were seen.

With a staff of one Clinical Officer, one Registered Nurse and three Community nurses, it is advisable for the dispensary to start offering other non clinical services e.g. Ante Natal, Post Natal, Child Health Care and Family Planning clinics. This will particularly assist junior members of staff who can not pay for these services privately and avoid long queues in government hospitals which means more time off from their places of work in the College. The present establishment would be adequate to undertake such services. However, there has been a problem in recruiting nurses in the year with current job groups.

Relatively, the dispensary has a better supply and wider range of drugs than other units of its size in the government. Proper records of drugs were maintained in the year. There were no drugs that expired before use.

In April, the College hired a part-time Doctor from Nairobi, who visits once a week for 2 hours to attend to serious cases. This visiting service will need to be expanded or the College may need to consider the case of a full time Medical Officer.

Out of an average of 80 patients seen per day, about 40 patients had minor upper respiratory tract infections (URTI); An average of 10 patients were seen by Psychiatrist at one time or another in the year, their problems ranged from mild anxiety to severe depressions. One student was terminated on a Psychiatric reasons. There were seven cases of serious accidents in the year that were referred to hospital, three were students involved while playing in the fields. There were few minor accidents from the workshops. 5-10 patients were treated each day with urinary tract infections (UTI); other minor cases treated were with skin infections and diarrhoea.

One female student was granted maternity leave in the year. There were no reported cases of food poisoning from the catering services.

Students and staff members donated 110 pints of blood during the Kenyatta Day Celebrations.

5.5. SECURITY

5.5.1. STAFFING POSITION

The Security Department has got 1 Security Officer, 1 Assistant Security Officer, 1 Security Head Guard and 37 Watchmen. There are three Watchmen to be employed to fill the establishment of 40 when suitable candidates are available.

5.5.2. GENERAL

During the year under review, all the staff houses were fitted with burglar proofs and this improved the situation greatly. After the burglar proofs were fitted, no breakings or attempted breakings were noted.

The Principal has recommended that all other places, especially stores be fitted with burglar proofs and this will at least discourage thieves from outside the College being tempted to come and steal.

Minor thefts within the College were committed by the employees when they were left loose or when the Department/Section Heads do not have a proper supervision of the items under their custody. If this is discouraged thefts will be stopped or minimised.

5.6. STUDENTS WELFARE SERVICES

5.6.1. STAFFING POSITION

Mr. J.M. Gachoho	-	Dean of Students
Dr. L. Wahome (Mrs.)	-	Assistant Dean of Students
Mrs. M. Nzioka	-	Secretary
Miss J. Wanjiku	-	Cleaner/Messenger

5.6.2. GAMES AND SPORTS

The events below illustrate better performance in 1985 than the previous year inspite of such problems as lack of good fields and facilities, as well as absence of a Games Tutor. The success was attributed by the efforts of a few lecturers who volunteered to help the students and the dedication by the teams.

<u>DATE</u>	<u>EVENT</u>
14.3.85	Hockey match between JKCAT and Mangu High School at our fields. Results: JKCAT Vs Mangu - 5:1
16.3.85	We hosted a soccer match against Kenya Polytechnic. Results: JKCAT Vs K. Poly - 3:2
17.5.85	The Southern Zone meeting held at JKCAT for Principals and their P.E. Tutors. The results of elections were as follows: Chairman - Mr. J.M. Githaiga - Principal, JKCAT Vice Chairman - Mr. T. Sambu - Principal, Shanzu Treasurer - Mr. J.W. Waiganjo - Principal, Kigari Secretary - Mr. B. Thuku - Kilimambogo Asst. Secretary - Miss R. Muunene - Kigari Members - Mr. F.M. Ngige - Principal, Kilimambogo Mr. M. Odera - Machakos Mr. B. Hassanali - Shanzu Mr. J.M. Gachoho - JKCAT.
29.5.85	The following five Principals from the Southern Zone held a meeting at JKCAT to discuss about Zonal finances. Mr. J.M. Githaiga - Chairman/Principal, JKCAT Mr. T. Sambu - Vice Chairman/Principal, Shanzu Mr. J.W. Waiganjo - Treasurer/Principal, Kigari Miss P.W. Weru - Member/Principal Machakos

<u>DATE</u>	<u>EVENT</u>
20.6.85	Southern Zone Executive Meeting held at JKCAT to discuss zonal athletics.
28.6.85	The Dean of Students represented the College in the Executive and Technical Sub-Committee meeting of the National Kenya Colleges Sports Association held at Kilimanbogo Teachers' College.
11.7.85	Inter-departmental Athletics Championship in which Horticulture
12.7.85	Department was the overall winner.
19.7.85	The Sixth Annual Southern Zone Athletics Championship held at
20.7.85	Thika Municipal Stadium. Our College was placed last. We could not participate fully due to our training programmes - the 1983 group was out on industrial attachment, the 1984 intake had external examinations and the Faculty of Agriculture had internal examinations.
17.9.85	An exciting soccer match between the College and the United Textile Industries (UTI). We scored three goals against two.
3.10.85	Finals of the Inter-departmental Soccer Tournament. Mechanical Engineering department collected the trophy.
5.10.85	JKCAT Soccer Team travelled to Consolata Fathers' Seminary, Nairobi. We won three against two (goals).
7.10.85	The Dean of Students represented the College at the KOSA Executive Meeting at KSTC.
12.10.85	The following games were played at our grounds against Kenyatta University:
	Soccer - KU Vs JKCAT - 3:1
	Hockey (women) - KU Vs JKCAT - 4:2
	Volleyball (men) - KU Vs JKCAT - 3:2
	Volleyball (women) - KU Vs JKCAT - 2:0
	(Although we lost in all these games, we gained experience, learnt our mistakes and got ourselves ready for future tournaments).

<u>DATE</u>	<u>EVENT</u>
23.10.85	We travelled to Kenyatta University for the following games whose results are indicated below: Soccer - JKCAT Vs KU - 1:0 Hockey (men) - JKCAT Vs KU - 0:0 Basketball (men) - JKCAT Vs KU - 22:28 (This was a tremendous improvement over the previous tournament.
9.11.85	University of Nairobi (Kabete Campus) came here for the following games: Soccer - JKCAT Vs UN - 4:2 Volleyball (men) - JKCAT Vs UN - 2:0 Hockey (men) - JKCAT Vs UN - 2:2 Hockey (women) - JKCAT Vs UN - 1:2 Table Tennis - JKCAT Vs UN - 3:6
23-24.11.85	The Sixth Annual Southern Zone Games Championships held at JKCAT: We took third position out of five Colleges from our zone. The college also collected the soccer trophy for second consecutive year.
29-30.11.85	The Sixth Annual Inter-Zonal Games Championships were held at JKCAT. Out of six zones, the Southern Zone took the second position. JKCAT, which represented the zone in soccer collected the trophy.

5.6.3. CLUBS AND SOCIETIES

The following are some of the activities organized and performed by college clubs and societies with the coordination of the patrons and the Dean's Office.

<u>DATE</u>	<u>EVENT</u>
16-19.1.85	The Coffee House Week organized by the JKCAT Christian Union.
23.2.85	A joint debate for JKCAT and Egerton College at our campus.
2.3.85	The College participated in a Karate Friendly Competition held at Prisons Staff Training College, Ruiru.
9.3.85	The JKCAT Wildlife Club visited Nbugiti Secondary School in Kandara Division of Murang'a to learn more about tree nurseries and their management.

<u>DATE</u>	<u>EVENT</u>
16.5.85	The Expedition Club had an exciting tour of Ngong Hills. Karate Club, under the National Coach, Mr. Tamura conducted a grading demonstration for the members.
18.5.85	Young Farmers Clubs, Nairobi Branch, held their field Day at JKCAT. The then Permanent Secretary, Ministry of Agriculture and Livestock Development, Mr. Peter Namu was the Guest of Honour.
25-26.5.85	The expedition club left college for Aberdare Ranges at 04.30 a.m. They arrived back on the following day at 02.00 p.m.
15.6.85	Debating and Current Affairs Club went to KSTC for inter-college joint debate.
22.6.85	The Young Christian Student performed plays at Basilica, Nairobi, in preparation for the Eucharistic Congress.
6.7.85	Multi-colleges debate at JKCAT. Participants were KTTC, Co-operative College, KSTC and JKCAT
7.7.85	The Christian Union attended a Christian Rally at Thogoto Teachers' College.
21.7.85	The Young Christian Students went for a seminar at Kilimambogo College.

5.6.4. STUDENT GOVERNMENT

The Second Student Council's General Election was held on 9th February, 1985 in the Assembly Hall. The following were elected office bearers.

1. Chairman	-	Kipruto R. Kirwa
2. Vice Chairman/Internal Affairs	---	Jackson Sunkoi
3. Secretary General	-	Atika Ombachi
4. Finance Secretary	-	George Anyulloh
5. Academic Secretary	-	Masinde Juma
6. Games & Sports Secretary	-	Timothy Chivundo
7. Transport Secretary	-	Kipkoech Koskoi
8. Entertainment Secretary	-	Francis Kung'u
9. Welfare 1 Secretary	-	Wanjiru Waira
10. welfare 11 Secretary	-	Paul Opola
11. Catering Secretary	-	Elijah Cigua

On 5th November, 1985, there was yet another general election to relieve the above officials who were due to sit for their final exams early the following year.

1. Chairman	-	Paul Opale
2. Vice Chairman/Internal Affairs	-	Paul Rono
3. Secretary General	-	Sommy Ndudu
4. Finance Secretary	-	Ibrahim Hussein
5. Academic Secretary	-	Joshua Mutungi
6. Games & Sports Secretary	-	Gordon Ojera
7. Transport Secretary	-	Kimani Kuria
8. Entertainment Secretary	-	Arthur Oboe
9. Welfare 1 Secretary	-	Phyllis Kiberenge
10. Welfare 11 Secretary	-	Dunstan Otiore
11. Catering Secretary	-	Vincent Nonyanya

The College is hopeful that the student Government will act as a useful bridge between the student body and the administration for the betterment of the students' welfare.

5.6.5. STUDENTS CHARITY WALK FOR HEART FOUNDATION

The following eight students from the college, on 15th August, 1985, embarked on an arduous walk of five hundred (500) kilometres including climbing Mt. Kenya via Naro Moru. After scaling the mountain for four days, they descended towards Chogoria. Thereafter, they walked back to College arriving here on 30th August, 1985 at 11.00 a.m.

1. Madumadu Dana (Captain)	5. Erastos Nderitu
2. Maranga Waikwa	6. Dunstan Otiore
3. Josephat Mbugua	7. Ken Nkanata
4. Lui Nutharia	8. Moses Okongo

On departure, the galant walkers were flagged off by the Mayor of Thika, Councillor Douglas Mundia who donated KShs.2,000 towards the fund.

To welcome the heroes back was the District Commissioner, Kiambu, Mr. Lekolet accompanied by the District Education Officer, Kiambu. Each donated KShs.1,000 for the fund.

Appendix I: Japanese Experts & Volunteers who arrived during 1985

<u>Name</u>	<u>Specialization</u>	<u>Arrival</u>	<u>Departure</u>
T. Watanabe (Dr.)	Agricultural Engineering	Jan. 1985	Feb. 1986
K. Nomachi	Architecture	Feb. 1985	Apr. 1985
Z. Inoue	Electrical	Mar. 1985	Mar. 1987
R. Torisu (Dr.)	Farm Power & Machinery	Apr. 1985	Apr. 1986
K. Hasegawa	Automobile Engineering	Apr. 1985	Apr. 1987
T. Seki	Milk Plant Installation	May 1985	June 1985
K. Iwamoto	"	"	"
J. Nozaka	Farm/Irrigation	June 1985	June 1987
Y. Fujime (Dr.)	Olericulture	July 1985	July 1986
H. Ejima	Farm Power & Machinery	July 1985	July 1987
M. Aranishi	Food Chemistry	"	"
A. Tanaka	Animal Husbandry	"	"
Y. Furuki	Surveying	"	"
T. Abe (Dr.)	Agricultural Machinery	Aug. 1985	Aug. 1986
S. Mayama (Dr.)	Plant Pathology	"	"
S. Aoyama (Dr.)	Soil & Structural Mechanics	Sep. 1985	Nov. 1985
K. Shino (Dr.)	"	"	"
M. Tsukamoto	Food Processing	Oct. 1985	Oct. 1986
K. Aoki	Farm Power & Machinery	Dec. 1985	Dec. 1987
Y. Ban	Pomology	Dec. 1985	Dec. 1987
Y. Kato	Architecture	"	"
S. Hiraide	Machine Tools	"	"
Y. Maeda	Japanese Language	"	"
K. Hattori (Dr.)	Soil & Structural	"	"

Appendix II: Japanese Experts and Volunteers who left during 1985

<u>Name</u>	<u>Specialization</u>	<u>Date of Departure</u>
T. Watanabe (Dr.)	Agricultural Engineering	February, 1985
K. Isa	Surveying	January, 1985
H. Fukada	Electrical	"
M. Kikusawa (Dr.)	Soil & Structural Mechanics	March, 1985
K. Shimada (Dr.)	"	"
H. Nakazawa	Japanese Language	"
K. Nomachi	Architecture	April, 1985
T. Miura	Electronics	"
H. Ueda (Dr.)	Team Leader	"

<u>Name</u>	<u>Specialization</u>	<u>Date of Departure</u>
T. Seki	Milk Plant Installation	June, 1985
K. Iwamoto	"	"
A. Takeo	Crop Science	July, 1985
S. Nishiyama	Food Chemistry	"
Y. Okada	Architecture	August, 1985
H. Katahira	Farm Power & Machinery	October, 1985
M. Takahashi	Floriculture	"
S. Mayama (Dr.)	Plant Pathology	"
T. Furukawa	Food Processing	November, 1985
S. Aoyama (Dr.)	Soil & Structural Mechanics	"
K. Shino (Dr.)	"	"

Appendix III: List of Students who graduated from JKCAT in 1985

FACULTY OF AGRICULTURE

Agricultural Engineering Department (Diploma in Agric. Engineering)

- | | |
|------------------------|--------------------------|
| * Achiel, Jacob Ndenga | @ Ngari, Francis G. |
| * Thimba, James N. | Furechi, Peter H. |
| Irura, Tabitha Muthoni | Kagana, George A.N. |
| Kimani, Gitaka J.K. | Kiptanui, Raymond Kimeri |
| Lung'aho, Justus Odera | Mbugua, Gerald M. |
| Michira, Duncan M. | Muasya, Bernard Muendwa |
| Mugo, Evans K. | Muiricha, John M. |
| Njenga, John Ng'ang'a | Njonde, David Gicheru |
| Njoroge, David Kuria | Oduor, Gabriel Ojuma |
| Ondimu, Nicholas O. | Thiru, David Mungoi |

Food Processing Department (Diploma in Food Processing)

- | | |
|---------------------------|--------------------------|
| * Waititu, Lucy Muthoni | @ Kairu, Nellie Wanjiku |
| * Muengi, Monicah Wamucii | Ndeda, Nelson Otieno |
| Njau, Silas | Mulei, Samson Muenia |
| Carawe, Grace Muthoni | Kamau, Oainah Wambui |
| Karanja, Nancy Wanjiku | Karari, Rahab Wairimu |
| King'ori, Peith Wambui | Kiriba, Rosebell Wanjiku |
| Kiruja, Albert Muriithi | Kitagwa, David Lualo |
| Kwaji, Kenneo, Jaden | Macharia, Rahab Njoki |
| Maranya, Prisca Baswett | Mungoi, Beatrice Wanjiku |
| Murakaru, Lydia Kamuyu | Mwangi, Helen Njoki |
| Mwangi, Wambui | Mwita, Lydia Weisai |
| Mwithiga, Elizabeth Njeri | Ngawa, Mary Kehosa |
| Nyambu, J.S. Mwasigwa | Said, Muhammed Abdalla |
| Wainaina, Anne Wanjiru | Wanjii, Jane Waruguru |
| Were, Mathew Oliech | |

Horticulture Department (Diploma in Horticulture)

- | | |
|------------------------|-------------------------|
| * Amara, Ruth Otieno | @ Mulli, Susan N. |
| * Gikaba, James Mukuna | Bowen, Rebecca J. |
| Chege, Grace Waithira | Cheruiyot, David K. |
| Gichuki, Peter N. | Ichenihi, John Likovele |
| Kariuki, Joseph J.N. | Kiano, Joshua J.N. |
| Kiragu, Joseph Rugah | Kirima, Elizabeth W. |
| Kishoyian, Peter S. | Mburu, Peter Gathoka |
| M'leri, Eliud Gitari | Cheserek, Samuel K. |
| Munya, Titus S. | Mwangi, Kenneth Maina |
| Ndung'u, John Kariuki | Njuguna, James B. |
| Waithaka, Anne Wanjugu | Wario, Sora Adano |

FACULTY OF ENGINEERING

Building & Civil Engr. Department (Technician Part III Cert. in Architecture)

- | | |
|--------------------------|----------------------|
| * Waita, Naomi Kalunda | @ Mungai, Charles M. |
| * Gatimu, D. Kinyanjui | Barreh, John Koyler |
| Kang'ethe, Bernard Ngugi | Oruko, Lucas Okoth |
| Wachira, Joseph C.G. | |

Prize winners - * First Overall, @ Second, * Third.

(Technician Part III Certificate in Building Construction)

- * Wainaina, Peter N.
- * Gathae S.M.
- Karigi, John Karumba
- Mbui, Julius Muriuki
- Ntimama, Timothy Tempes
- Oleng'o John Alal
- @ Sitendi, Diahon Opolu
- Gichira, James Mugweru
- Mage, Francis Muangi
- Muthaga, Robert Kanyuuru
- Nyanjom, Joseph

(Technician Part III Certificate in Irrigation Engineering)

- * Kinyanjui, George Kiguru
- * Chebollet, William Rutto
- Adhan, Mohamed Nur
- Kasasi, Haggai G.
- Mutune, Stephen Nguli
- Rop, Daniel Kiplagat
- @ Musyimi, Simon Muasya
- Ng'ang'a Stanley Kibe
- Gathogo, Fredrick Kingi
- Kibe, Murage Peter
- Ochieng, George Willy

Electrical & Electronics Dept. (Tech. Part III Cert. in Elec. Installation)

- * Kamau, Pauline Wachera
- * Kahindi, Jackson M.
- Kamau, Thomson Karanja
- Ng'ang'a, Rosemary N.
- Orina, James Onuko
- Mue, Phillip Musyimi
- @ Nyaga, Raphael Wanjohi
- Kimama, Grace Wangui
- Kibunja, Andrew Simon
- Omotto, Barrack E.O.
- Ruirie, Richard M.
- Mungai, Denis Njau

(Technician Part III Cert. in Radio, TV and Electronics)

- * Wairagu, Richard Muchemi
- * Munandi, Asiele Andrews
- Nderu, John Ndichu
- Ng'ang'a, Joseph Gitau
- @ Sigey, Richard Kipkemoi A.
- Mwanyasi James Mwalugho W.
- Okello, John Nyapola
- Aloo, Wellington Oduor

Mechanical Department (Technician Part III Cert. in Construction Plant)

- * Mutema, Charles Muangi
- Mbugua, Simon Njuguna
- @ Gatimu, Jeremiah Njeru

(Technician Part III Certificate in Motor Vehicle)

- * Kimani, John Muiruri
- * Kinyiro, Kanyungu Ignatius
- Ndung'u, King'ori
- Waithaka, George Gitau
- @ Karuri, Daniel Muraguri
- Kibiro, Patrick King'ori
- Rono, Kiptum Eleazar

Appendix IV: Students Statistics as at 31st December, 1985

<u>Course</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>Total</u>
Agricultural Engineering	--	30	31	36	97
Food Processing	--	18	19	12	49
Horticulture	--	27	28	30	85
Agricultural Machinery	16	11	12	12	51
Architecture	11	12	13	16	52
Building Construction	16	12	13	16	57
Construction Plant	10	9	11	14	44
Electrical Installation	11	10	14	16	51
Electronics	16	11	16	16	59
Irrigation	11	13	15	16	55
Motor Vehicle	15	12	14	15	56
GRAND TOTAL	106	165	185	199	649

Appendix V: Summary of TSC Staff by Grades

FACULTY/DEPARTMENT	PRINCIPAL LECTURERS	SENIOR LECTURERS	LECTURERS	ASS. LECT. & OTHERS
Agric. Agric. Engin.	1	-	4	5
Food Processing	-	1	3	6
Horticulture	1	1	1	7
Engin. Building & Civil	-	2	5	11
Electrical & Electronics	-	1	3	12
Mechanical	1	1	9	17
General Studies & Others	1	1	3	1
*TOTAL	4	7	28	59

* The total excludes the posts for the Principal and Deputy Principal.

Appendix VI: Summary of BCG Staff by Job Groups

JOB GROUP	NUMBER
A	46
B	75
C	55
D	30
E	13
F	28
G	19
H	12
J	7
K	1
L	...
TOTAL	286

Appendix VII: DCG Staff Departures During 1984 (20)

<u>NAME</u>	<u>DESIGNATION/JOB GROUP</u>	<u>DATE LEFT</u>
Stephen N. Harun	Cleaner (A)	February, 1985
Wilson G. King'ori	Library Assistant (F)	June, 1985
Mary Wanjiru Kung'u	Cleaner (A)	February, 1985
Regina Wambui Kinotho	Nurse (F)	January, 1985
Stephen Irungu Karantho	Plumber (C)	September, 1985
John Okwiri Mac Okayo	Supplies Assistant (F)	July, 1985
Peter Masinde Sangara	Farm Manager (K)	June, 1985
William Wanjohi Njega	Farm Worker (B)	August, 1985
Peter Kuria Wanyona	Watchman (B)	February, 1985
Magdalene W. David	Copy Typist (D)	May, 1985
Kenneth Juma Momeni	Farm Demonstrator (F)	February, 1985
Evans Mwangi Gathira	" "	April, 1985
Angela Njeri Nwangi	Stores Clerk (D)	"
Joseph A. Ombeua (Died)	Groundsman (B)	"
Geoffrey Kuria Kananu	Farm Demonstrator (F)	October, 1985
Jericah Njiru Kienbati	Library Assistant (F)	January, 1985
Pius Andrew Gakuru	Asst. Librarian (K)	"
Benjamin Chemelic K.	Groundsman (B)	May, 1985
John Odhiambo Guburo	Transport Officer (G)	July, 1985
Moses Nuorono Njoroge	Watchman (A)	June, 1985

Appendix VIII: Staff who Joined College in 1985 (36)

<u>NAME</u>	<u>DESIGNATION/JOB GROUP</u>	<u>DATE APPOINTED</u>
Erastus Kakuwira Eboso	Watchman (A)	February, 1985
John Karanja Mungai	Watchman (B)	"
Mary Wambui Rurua	Cleaner (A)	"
Francis Mbathi Karanja	Watchman (B)	"
Simon Gichuki Kiaria	" (A)	"
Jackson Kisilu Mbithi	" (B)	"
Joseph Mukindu Mbatia	Farm Worker (C)	"
Jivai Likitekui	Watchman (A)	"
Konosó Lekemario	" "	"
Joseph Kiptum Rop	" "	"
Edith W. Karago	Shorthand Typist (F)	"
Esther Wanjiru Gathiga	Cleaner (C)	"
Samuel Ngwili Kinonye	Kitchen hand "	"
Peter Wambua Ndiro	" (B)	"
Francis Njau Mugweru	Driver (C)	March, 1985
F.B.S. Kariuki	Executive Officer (H)	"
Susan Wangui Wainaina	Senior Lib. Assis. (G)	April, 1985
Lilian D. Adhiambo Ogutu	" "	"
Eunice Wasilwa	Nurse "	"
Beatrice N. Muasya	Shorthand Typist (F)	"
Virginia Garuki Maura	Cleaner (B)	"
Anne Njeri Waitara	Shorthand Typist (F)	May, 1985
James Bii Yoo	Driver (D)	"
Gracius Opiyo Kung'u	Groundsman (B)	"
Janlick Gitonga Njeru	Stores Clerk (D)	"
James Ndirangu Benson	Groundsman (B)	June, 1985
Stephen Gathu Njaaga	Mason (D)	July, 1985
Henry Kamau Wainaina	Head cook (F)	"
Henry Njoroge Chege	Library Attendant (D)	September, 1985
Margaret Wambui Mwangi	Technician Trainee (C)	"
Francis M. Kinoyu	Laboratory Attendant (D)	October, 1985
Peter Kimani Mbugun	Technician Trainee (C)	September, 1985
Rose Mugure Kinani	" "	"
Esther Ngethi Ng'ang'a	" "	"
Simon Nyansera Kiama	Farm Worker (B)	November, 1985
Jane Nyambura Kimani	Cook (C)	October, 1985

Appendix IX: Important Visitors to the College in 1985

<u>Month</u>	<u>Name</u>	<u>Address</u>
January	Akira Takahashi	JICA Nairobi Office
	Hideo Ohata	JOCV Head Office, Tokyo
	Takashi Nagakura	JOCV Malawi
	Norio Onishi	JOCV Tokyo
	Shiro Kinouchi	JOCV Damascus, Syria
	Libaki Ijo	Tokyo, Japan
	Hiroji Yamaguchi	JOCV Zambia
	Akio Komazawa	JOCV Ethiopia
	Hirofumi Yoshikawa	P.O. Box 9459, Dar-es-salaam
	H. Kumano	P.O. Box 50572, Nairobi
	Manabu Ogata	Kanagawa, Fushinobe, Japan
	Yutaka Fujimoto	Faculty of Vet. Med., Hokkaido Univ. Japan
	Tetsuo Kumagai	Department of Vet. Med., Tokyo University
	Kuniaki Yasuoka	Official, Hokkaido University
	Hideo Ono	JICA, Livestock Development Division
	David M. Mbiti	Director of Education, T & HE
	A.K. Kibebe	S.E.O. Polytechnics
	Prof. Lubunga P.S.	AIHITA, P.O. Box 53763, Nairobi
	Shigeyoshi Iwasaki	KIE, P.O. Box 870, Nyeri
	Kichitaroh Kaneko	"
Samuel N. Ndirangu	Nyeri Industrial Estate, Box 990, Nyeri	
Akira Kuroki	KIE, Nyeri	
Koichi Hagiwara	KIE, Nyeri	
February	J.G. Ng'ano, EGH, MP	Minister for Education, Science & Tech.
	Mr. Iida	Charge d'Affairs of Japan
March	Japanese Mission	Preliminary Survey on Nippon - NYS Engr. Institute
	Mitsu Kimata	Director, Ministry of Labour, Japan
	Ipppei Hattori	Overseas Centres Division, JICA, Tokyo
	Tadao Iwaki	Ministry of Labour, Tokyo, Japan
	Kiyokatsu Tanaka	"
	Katsuyoshi Taniguchi	Yahata V.T.C.
	Katsuji Onoda	JICA, Japan
	Shigeru Matsuyama	National Institute of Animal Health, Japan
	Dr. Assed Yakla	UNIDO Consultant
	E. Kariithi	Ministry of Commerce & Industry, Nairobi
Lynda Purser	Newcastle upon Tyne Polytechnic, England	
John Newham	"	
Patrick Spaven	British Council, Nairobi	
April	Nakano Kazuhito	Tokyo, Japan
	Taizo Nakamura	Executive Director, JICA, Tokyo
	Kanji Endo	Special Technical Advisor, JICA, Japan
	Mitsuo Ogura	University of Tsuda College, Japan
	Siyahida	Ministry of Agric., Japan
	Shinsuke Nirai	Ministry of Foreign Affairs, Japan
	Nobuhito Hobo	"
	Prof. Hiroshi Wada	1-6-8 Tsushima-Fukul, Okayama Japan
	L.P. Odera	Permanent Secretary, MEST
	J.A. Lijamba	Ag. Director of Secondary Education
Tom Sitima	Chief Inspector of Secondary Education	
S. Nyachoe	Office of the President, Nairobi	

<u>Month</u>	<u>Name</u>	<u>Address</u>
May	T. Kazuhara	Secretary-general, JOCV, Tokyo
	K. Tsuru	JOCV, Tokyo
	R. Arai	"
	Hirashi Senba	"
	Shinya Jammuti	"
	Shingino Omi	"
	Shikuki Igawa	"
	Satoko Nishi	"
	Kuniko Tobato	Tochigi, Japan
	Tatsuko Yeranchi	Richmond College 1st Albara, Grave, London
Alex Sengo	P.O. Box 53763, Nairobi	
Prof. H.F. Sead	"	
Dr. S.O. Odedy	"	
June	Harvey P. Menn	Future Farmers of America, U.S.A.
	Jack L. Kallek	"
	Michael Novak	Box 536 Flemington N.S. 08822, U.S.A.
	Oscar O. Taylor I	667 East 14th Street Edgard, Louisiana, USA
	Subhash B. Sanigra	P.O. Box 70346, Nairobi
	Joseph Mbugua	P.O. Box 30374 Nairobi
Rick Kimble	115 Cherokee Avenue/Athensuga, USA	
July	Masao Kikuchi	Ministry of Agriculture, Tokyo, Japan
	Masihito Sato	JICA, Japan
	Y. Dhkawa	"
	Hiroshi Yoshimma	Non-Governmental Organization, Okayama
	Ayako Miyake	"
	Nobuko Hashimoto	"
	Ayako Kotani	"
	Midori Kosino	"
	Mieko Kitajima	NGO 1985 UN Forum, Okayama, Japan
	Beverly B. Cassom	University of the District of Columbia, USA
	O.G. Gikuhl	University of Nairobi, Box 92, Kikuyu
	Clara C. Mills	University of the District of Columbia, USA
	Michelle Chisley	ASANTE, Box 13036, Washington, DC 20009
	Ernest Cassara	George Mason University, Virginia 22030
	Aiko Horia	Tokyo, Japan
	Yaereko Kataoka	Nara, Japan
	Eiji Yanogima	JICA, Japan
	Yuniko Matsuoka	Hokkaido, Japan
	Christina A. Otieno	MTC, Box 55, Athi River
	Mayomi Mariyama	Ministry of Foreign Affairs, Japan
Mnoko Hayashi	Member, House of Councillor, Japan	
Teiko Harita	"	
Michiko Ishii	"	
Kazuo Murokami	Ambassador of Japan in Kenya	
Jameke Nakanishi	1-19-810 Nishikata, Bunkyo-ku, Tokyo Japan	
Ryuishi Ito	P.O. Box 60202, Nairobi, Kenya.	
Akiko Sanjo	Tokyo, Japan	
Chieko Kumanoto	Secretary of the House of Councillors	
Justice E. O'Kubru	High Court of Kenya, Box 30041, Nairobi	

<u>Month</u>	<u>Name</u>	<u>Address</u>
August	Cara E. Doyle	111 N. Hamilton apt. K Madison, Wisconsin
	Dr. Walter J. Lusigi	UNESCO/ROSTA
	D.K. Mwendia	Mayor, Thika Municipal Council
	H.G. Mwangi	Deputy Mayor, Thika Municipal Council
	Francis W. Laxolool	D.C. Kiambu
	D.W. Thairu	D.E.O. Kiambu
	W.E. Mulan	D.I.O. Kiambu
September	H. Hattori	JCCV Tokyo
	Y. Shiyama	"
	H. Kamiya	"
	I. Tomba	"
	L. Tsumo	Egerton College
	S.K. Ng'eng'a	"
	W.K. Hugo	"
	H. Mutruri	"
	D.M. Odaph	"
Oliver E.O. Arigi	"	
October	Hon. Kimani Ma Nyoike	Assistant Minister for Labour
	David Wandia	Deputy Chairman, P.S.C. Nairobi
	Justus Momba	Commissioner, P.S.C.
	Mary J. Tunji	"
	J.K. Icharia	"
	P.A.N. Itobete	"
	F.J. Murka	"
	Yunis M. Mahat	"
	J.O. Kimoro	"
	E. Mwakia	"
	D.M. Mureithi	"
	W.E. Hiribao	Secretary, P.S.C.
	P.G.J. Waiithaka	Under Secretary, P.S.C.
	C.H. Wambua	Chief Personnel Officer
	E.A.A. Lianga	Senior Assistant Secretary, P.S.C.
	J.M. Wachiro	Chief Personnel Officer, P.S.C.
T. Sawada	President of Kyoto University, Japan	
November	L.O. Galgala	P.C., Central Province
	Francis W. Lakolool	D.C. Kiambu
	Fares M. Muindua	SAS/SP, Office of the President
	John B. Ogoro	P.O./SP, Office of the President
	His Excellency, Daniel T. arap Moi	President of the Republic of Kenya
	F.X.D. Hella	Thika Cloth Mills, Box 120, Thika
	S.L. Lutha	"
	S.B. Nangoshi	"
	Yasuaki Tonizaki	Saitama-ken Higashimizuho-dai 1-5-1-503 3PW
	Masayuki Uryu	P.O. Box 50572, Nairobi
December	Dorcas Prim	44 Highland St. Boston MA. 02119 617-427-2197



THE REPUBLIC OF KENYA

KENYA GAZETTE SUPPLEMENT

ACTS, 1985

NAIROBI, 19th JULY, 1985

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THE UNIVERSITIES ACT, 1985

No. 5 of 1985

Date of Assent: 11th July, 1985

Date of Commencement: By Notice

ARRANGEMENT OF SECTIONS

Section

PART I—PRELIMINARY

- 1—Short title and commencement.
- 2—Interpretation.

PART II—THE COMMISSION FOR HIGHER EDUCATION

- 3—Establishment of the Commission for Higher Education.
- 4—Constitution of the Commission.
- 5—Secretary to the Commission.
- 6—Functions of the Commission.
- 7—Procedure of the Commission.
- 8—Committees.

PART III—PROVISIONS RELATING TO PUBLIC UNIVERSITIES

- 9—Powers of the Minister in relation to public universities.

PART IV—ESTABLISHMENT OF PRIVATE UNIVERSITIES

- 10—Application of Part.
- 11—Establishment of private universities.
- 12—Granting of charters.
- 13—Matters to be specified in a charter.
- 14—Publication of charter.
- 15—Protection of name.
- 16—Variation and revocation of charter.

PART V—MISCELLANEOUS PROVISIONS

- 17—Financial year.
- 18—Annual estimates.
- 19—Accounts and audit.
- 20—Appointment of auditor.
- 21—Rules.

An Act of Parliament to make better provisions for the advancement of university education in Kenya and for connected purposes

ENACTED by the Parliament of Kenya as follows:—

PART I—PRELIMINARY

Short title
and
commencement.

1. This Act may be cited as the Universities Act, 1985 and shall come into operation on such day as the Minister may, by notice in the Gazette, appoint.

Interpretation.

2. In this Act, unless the context otherwise requires—

“charter” means a charter granted by the President under this Act;

“Commission” means the Commission for Higher Education established by section 3;

“course of study” means the structure for degrees or other academic qualifications and the subjects of study in the course;

“course regulations” means any regulations or statutes of a university concerning the course of study for a degree or other academic qualification of that university;

Cap. 210.
No 3 of 1984.

“university” means the University of Nairobi established by the University of Nairobi Act, Moi University established by the Moi University Act, 1984 and any other university, whether public or private, established after the commencement of this Act;

“public university” means a university maintained or assisted out of public funds;

“private university” means a university established with funds other than public funds.

PART II—THE COMMISSION FOR HIGHER EDUCATION

Establishment
of the
Commission
for Higher
Education.

3. (1) There is hereby established a Commission, to be known as the Commission for Higher Education, which shall be a body corporate with perpetual succession and a common seal.

(2) The Commission shall be capable in its corporate name of—

- (a) suing and being sued;
- (b) taking, purchasing or otherwise acquiring, holding, charging and disposing of movable and immovable property;
- (c) borrowing and lending money;
- (d) entering into contracts; and
- (e) doing or performing all such other things or acts necessary for the proper performance of its functions under this Act which may lawfully be done or performed by a body corporate.

4. (1) The Commission shall consist of—

- (a) a chairman and vice-chairman appointed by the President;
- (b) not more than fifteen and not less than eleven members appointed by the President by virtue of their experience in university education and research;
- (c) the Permanent Secretary to the Ministry for the time being responsible for university education;
- (d) the Permanent Secretary to the Ministry for the time being responsible for finance;
- (e) four persons appointed by the Minister to represent other areas of university education;
- (f) the Chief Secretary;
- (g) the Director of Personnel Management;
- (h) such other persons, not more than three in number, as the Commission may co-opt.

Constitution
of the
Commission.

(2) The members of the Commission, other than *ex-officio* members, shall hold office for a period of five years and shall then retire but shall be eligible for re-appointment.

(3) A member of the Commission other than an *ex-officio* member or a member appointed under section 4 (1) (e), may resign his appointment by a letter in writing addressed to the President.

(4) A member of the Commission appointed under section 4 (l) (e) may resign his appointment by a letter in writing addressed to the Minister.

(5) A member of the Commission co-opted under section 4 (h) may resign his appointment by a letter in writing addressed to the Commission.

Secretary to
the Commission.

5. (1) There shall be a secretary to the Commission who shall be appointed by the Minister and who shall be the chief executive of the Commission responsible for the management of the Commission's day-to-day business.

(2) The secretary shall be an *ex-officio* member of the Commission but shall have no voting rights.

Functions of
the Commission.

6. The functions of the Commission shall be—

(a) to promote the objectives of university education, namely the development, processing, storage and dissemination of knowledge for the benefit of mankind;

(b) to advise the Minister on the establishment of public universities;

(c) to accredit universities;

(d) to co-ordinate the long-term planning, staff development, scholarship and physical development of university education;

(e) to promote national unity and identity in universities;

(f) to liaise with Government departments and the public and private sectors of the economy in matters relating to overall national manpower development and requirements;

(g) to co-operate with the Government in the planned development of university education;

(h) to examine and approve proposals for courses of study and course regulations submitted to it by private universities;

(i) to receive and consider applications from persons seeking to establish private universities in Kenya and make recommendations thereon to the Minister;

- (j) to make regulations in respect of admission of persons seeking to enrol in universities and to provide a central admissions service to public universities;
- (k) to ensure the maintenance of standards for courses of study and examinations in the universities;
- (l) to advise and make recommendations to the Government on matters relating to university education and research requiring the consideration of the Government;
- (m) to collect, examine and publish information relating to university education and research;
- (n) to plan and provide for the financial needs of university education and research, including the recurrent and non-recurrent needs of universities;
- (o) to determine and recommend to the Minister the allocation of grants of money for appropriation by Parliament to meet the needs of university education and research and review expenditure by universities of moneys appropriated by Parliament;
- (p) to advise the Government on the standardization, recognition and equation of degrees, diplomas and certificates conferred or awarded by foreign and private universities;
- (q) to co-ordinate education and training courses offered in post secondary school institutions for the purposes of higher education and university admission;
- (r) to arrange for regular visitations and inspection of private universities;
- (s) to perform and exercise all other functions and powers conferred on it by this Act.

7. (1) The chairman shall preside at all meetings of the Commission unless he is absent from a particular meeting in which case the vice-chairman shall preside.

Procedure of
the Commission.

(2) In the event of the chairman and the vice-chairman being absent from a meeting of the Commission the members present shall elect one of the members present at that particular meeting to preside.

(3) The Commission shall meet at least four times in each year, but the chairman may, and upon application in writing by five members shall, convene a special meeting of the Commission at any time.

(4) The quorum necessary for the transaction of the business of the Commission shall be twelve.

(5) All questions at a meeting of the Commission shall be determined by a majority of the votes of the members present and voting.

(6) The chairman shall have, in case of equality of votes, a casting vote in addition to his deliberative vote.

(7) The Commission shall cause minutes of all proceedings of meetings of the Commission to be entered in books kept for that purpose.

(8) Subject to this Act, the Commission shall regulate its own proceedings.

Committees.

8. (1) The Commission shall, by resolution, appoint a Central Universities Admissions Committee and a Universities Grants Committee.

(2) The Universities Grants Committee shall consist of such members as may be appointed by the Commission.

(3) The Central Universities Admissions Committee shall consist of—

(a) the chairman of the Commission;

(b) the vice-chancellors of the public universities;

(c) the Chief Secretary;

(d) the Permanent Secretary to the Ministry for the time being responsible for university education;

(e) the Director of Personnel Management;

(f) seven other members appointed by the Commission;

(4) The Commission shall delegate to the Universities Grants Committee such of its functions as it may determine.

(5) The Central Universities Admissions Committee shall advise the Council on the following matters—

(a) the co-ordination of admissions to public universities on a national basis;

- (b) the establishment and maintenance by such means as it considers appropriate of equivalent educational standards as a prerequisite for university admission;
- (c) prescribing the minimum requirements upon compliance with which a person may become academically qualified for admission to a university.
- (6) The Commission may, by resolution, appoint such other committees as it may think fit.
- (7) The Commission shall prescribe the powers, duties and procedures of committees appointed by it under this section and the terms of office of persons appointed to those committees.

PART III—PROVISIONS RELATING TO PUBLIC UNIVERSITIES

9. (1) The Minister shall, on the advice of the Commission, promote university education for the benefit of the people of Kenya through the establishment and progressive development of public universities.

Powers of the Minister in relation to public universities.

(2) For the purpose of exercising his powers under subsection (1), the Minister may from time to time formulate a development plan for the expansion of public universities consistent with the national plan for the economic and social development of Kenya.

PART IV—ESTABLISHMENT OF PRIVATE UNIVERSITIES

10. This Part shall apply to private universities.

Application of Part.

11. (1) Every private university intended to be set up in Kenya shall be established by a charter granted by the President in accordance with the provisions of this Act.

Establishment of private universities.

(2) Any person wishing to establish a private university in Kenya shall make application in writing to the Commission in the prescribed manner, for the grant of a charter setting up the private university.

(3) An application for the grant of a charter shall be accompanied by a draft of the charter containing the matters specified under section 13.

(4) The Commission shall consider every application made under subsection (1) and submit it to the Minister together with its recommendations or observations and the Minister shall submit the application to the President together with any recommendations or observations which he may wish to make thereon.

Granting of charters.

12. If, after considering the documents submitted to him under section 11 (4), the President is of the opinion that the grant of a charter to the institution concerned may be of benefit to the future development of university education in Kenya he may grant a charter either in form of the draft submitted to him or in such other form as he may consider appropriate.

Matters to be specified in a charter.

13. In addition to any other matter which the President may consider necessary, a charter shall contain the following matters—

- (a) the name of the private university;
- (b) the aims and objectives for which the private university is to be established;
- (c) the membership and government of the private university;
- (d) the extent to which, and the form in which, regulations may be made by such body of the private university as may be specified for the better functioning of the institution; and
- (e) the financial control and expenditure and the administrative control of other property of the university.

Publication of charter.

14. The Minister may, by notice in the Gazette, publish the charter and with effect from the date of publication of the charter the institution established by the charter shall be a body corporate by the name cited in the charter with perpetual succession and a common seal, and shall, in that name, be capable of—

- (a) suing and being sued;
- (b) taking, purchasing or otherwise acquiring, holding, charging and disposing of movable and immovable property;

- (c) borrowing and lending money;
- (d) entering into contracts; and
- (e) doing or performing all such other things or acts for the proper performance of its functions under the charter which may lawfully be done or performed by a body corporate.

15. (1) Notwithstanding any other written law, no public officer performing functions relating to the registration of companies, business names or trade marks shall accept for registration a name which is identical to, or so similar as to be liable to confuse the public with, the name of a private university to which a charter has been granted under this Act unless the consent of the governing body of the university has been obtained.

Protection
of name.

(2) A person who, except with the written consent of the governing body of the university concerned, uses the name of the university to which a charter has been granted under this Act in furtherance of, or as, or in connection with, an advertisement for, any trade, business, calling or profession, shall be guilty of an offence and liable to a fine not exceeding thirty thousand shillings or to imprisonment for a term not exceeding twelve months or to both.

16. (1) The President may, at any time, vary the provisions of a charter if he is of the opinion that the variation is in the interests of university education in Kenya generally or may assist the institution concerned to carry out its functions in a more efficient manner.

Variation and
revocation
of charter.

(2) The President may, at any time, revoke a charter granted to a university if he is of the opinion that the university concerned is not carrying out its functions in a proper manner, or is in breach of its charter, or that the revocation is in the interests of university education generally.

(3) Where a charter is revoked under subsection (2) the Minister shall forthwith cause a notice of the revocation to be published in the Gazette, and the private university concerned shall cease to be a university at the expiry of one year from the date of publication of the notice; except so however that the revocation of a charter shall not affect the validity of the degrees previously granted by the university.

PART V—MISCELLANEOUS PROVISIONS

Financial
year.

17. (1) The financial year of the Commission shall be the period of twelve months commencing on such day in each year as the Government may determine.

(2) In the event of any change in the financial year, and for the purposes of the transition from the old financial year to the new financial year consequent upon that change, the transitional period, whether more or less than twelve months, shall be deemed for all the purposes of this Act to be a financial year.

Annual
estimates.

18. (1) The Commission shall submit to the Minister an estimate of its expenditure and income during the succeeding financial year six months before the commencement of the financial year.

(2) The Minister shall communicate to the Commission his approval of the annual estimates at least one calendar month before the commencement of the financial year.

(3) The annual estimates shall make provisions for all the estimates of expenditure of the Commission for the financial year and shall provide for—

(a) the cost of administration of the Commission including payment of salaries, allowances, pensions, gratuities and other charges whatsoever payable to the staff and members of the Commission;

(b) the payment of reimbursement to the members of the Commission;

(c) the maintenance of any property vested in the Commission.

(4) No expenditure shall be incurred for the purposes of the Commission except in accordance with the annual estimates approved under subsection (2).

Accounts
and audit.

19. (1) The Commission shall cause to be kept all proper books and records of accounts for the income and expenditure and assets of the Commission.

(2) Within three months from the end of each financial year, the secretary of the Commission shall submit to the

Controller and Auditor-General the accounts of the Council together with—

- (a) a statement of income and expenditure during the year; and
- (b) a statement of the assets and liabilities of the Commission existing at the end of the year.

20. (1) The accounts of the Commission shall be audited by the Controller and Auditor-General.

Appointment
of auditors.

(2) The Controller and Auditor-General shall present to the Commission, within a period of six months after the end of each financial year, a report of the examinations and audit of the accounts and the report shall also be forwarded to the Minister.

(3) The Minister shall lay the Commission's report and the Controller and Auditor-General's report before the National Assembly within thirty days after the receipt of the reports by him, or if the National Assembly is not then sitting, within fourteen days after the commencement of the next sitting.

21. The Minister may, after consultation with the Commission, make rules generally for better carrying into effect of the provisions of this Act and in particular providing for the following purposes—

Rules.

- (a) for the recruitment and terms and conditions of service, pension and other benefits for the employees of the Commission;
- (b) enabling the Commission to make provisions for the boarding and lodging facilities for students in public universities;
- (c) prescribing anything which may be prescribed under this Act.

**THE CONSTITUTION OF KENYA (AMENDMENT)
ACT, 1985**

No. 6 of 1985

Date of Assent: 11th July, 1985

Date of Commencement: 19th July, 1985

An Act of Parliament to amend the Constitution

ENACTED by the Parliament of Kenya as follows:—

Short
title.

1. This Act may be cited as the Constitution of Kenya (Amendment) Act, 1985.

Replacement
of section
89.

2. Section 89 of the Constitution is repealed and replaced by—

Persons
born in
Kenya after
11th
December,
1963.

89. Every person born in Kenya after 11th December, 1963 shall become a citizen of Kenya if at the date of his birth one of his parents is a citizen of Kenya; except that a person shall not become a citizen of Kenya by virtue of this section if at the date of his birth—

(a) his father possesses immunity from suit and legal process as is accorded to the envoy of a foreign state accredited to Kenya; or

(b) his father is a citizen of a country with which Kenya is at war and the birth occurs in a place then under occupation by that country.

JOMO KENYATTA COLLEGE OF AGRICULTURE & TECHNOLOGY

(JKCAT)

"THE FUTURE ROLE OF"

JOMO KENYATTA COLLEGE OF AGRICULTURE & TECHNOLOGY

**(A BRIEF ON THE FUTURE ROLE OF JKCAT
PRESENTED TO THE PROJECT STEERING COMMITTEE
MEETING ON 1ST SEPTEMBER , 1986)**

FUTURE ROLE OF THE COLLEGE

INTRODUCTION

In March, 1978 the Government of Japan agreed to assist the Kenyan Government to establish the Jomo Kenyatta College of Agriculture and Technology. The Kenya Government requested for a technical institution because of the "shortage of technically skilled manpower qualified youth". The need for technical education in Kenya had been identified as one of the necessary orientation in our education system as stated in the Kenya Development Plan 1974 - 78 paragraph 3.40 that "The education System will be oriented more towards technical and vocational training in the kinds of employment that are in the demand".

OBJECTIVES

In May, 1981 the implementation of this project was achieved by the opening of the Jomo Kenyatta College of Agriculture and Technology on 4th May, 1981. The objectives of the College were:-

- (a) To provide young Kenyans with technical skills and abilities necessary in making them useful citizens;
- (b) To prepare young Kenyans for productive employment or self-employment especially in the rural areas;
- (c) To train young Kenyans to fill the manpower gaps and to ensure rapid development of the national economy;
- (d) To re-orientate the attitude of youths of Kenya towards productive manual labour which is not only honourable but very rewarding.

CURRENT EDUCATIONAL SYSTEM IN KENYA

Recently (1985) the Kenya Government has launched the 8 - 4 - 4 education system. Among other expectations the new education system

aims at intensifying technical training through the use of post primary and post secondary technical training institutions. The national objectives for technical training institutions is as stated to be:-

- (i) To provide increased training opportunities for school leavers that will enable them to be self-supporting;
- (ii) To develop practical skills and attitudes which will lead to income earning activities in the urban or rural areas through employment or self employment.
- (iii) To provide technical knowledge and vocational skills necessary for the manpower development;
- (iv) To produce people who can apply scientific knowledge for the solution of environment problems.

EXPECTED ROLE AND STATUS OF JKCAT WITHIN 8-4-4 SYSTEM

It is expected that under the Technical Education Programme (TEP) within the 8-4-4 system, middle colleges such as JKCAT and the national polytechnics will initially train Higher National Diploma (HND) level and eventually offer Bachelor of Technology degrees. This new role of these colleges would be expected to begin on or about 1990 when the high school graduates of the 8-4-4 system become eligible for admission into the university and post secondary institutions.

THE FUTURE DEVELOPMENT OF THE COLLEGE

In preparation for its future role JKCAT will need to develop its capacity for training by a number of issues:-

(a) Staff Development

Since the beginning, the College has trained about 60 trainees under JICA scholarships and three M.Sc. under the Mombusho scholarships. There are nine JICA and seven Mombusho trainees in Japan.

In all the future plans of launching higher courses at the college, lecturing staff training to at least M.Sc. level will be a key factor. It will be necessary for example to ensure that there at least 50% M.Sc. holders in every departmental establishment before launching the HND in 1990. It will be desirable to have close to 100% M.Sc. holders for such an exercise. The possibility of Third World training and use of local universities should be vigorously explored to accelerate this staff development. The Directorate of Personnel Management through the Ministry of Education, Science and Technology should also make available 10 scholarships to the college during the next five years.

(b) Student Population

The current student population at the peak i.e. when all the students are in the college is 818. The annual intake of 198 trainees come from 6,000 to 10,000 applications that are received each year at the College. This is an indication of the great demand for the courses offered by this college. There may therefore be a case of considering a bigger student intake say 250 trainees annually. Such a number could be achieved by introducing new courses such as Animal Husbandry, Electrical Power Engineering or Telecommunications. However, to accommodate these numbers, extra hostels in addition to the 5th hostel (which was a Kenya Government contribution) would be required. Such extra facilities should be made available so as to bring a student intake population of 2,000.

(c) Staff Houses

The original target of 303 staff houses (this was a Kenya Government contribution) should be vigorously pursued so that most staff are housed at the College. Currently, only 66 units have been completed.

Shortage of staff houses acts as an disincentive to staff. It also limits the college timetable to say 5.00 p.m. Monday - Friday to allow time to travel back to Nairobi where majority are housed.

(d) Domestic Water

The College continues to experience problems in both quantity and quality of domestic water. We have already requested the Ministry of water development to assist the College in setting up a treatment plant for river water from the irrigation pond at the tuition farm. Such a treatment plant would go a long way in solving the College water problems.

(e) Physical Facilities

During the period of operation of the College, it has been found out that the college experiences some congestion in the utilisation of the physical facilities. In particular, there would be need to erect some large lecture theatres which could cater for 100 - 200 students. Such a facility would release a number of other rooms while such students attend lectures such as in Mathematics, Engineering Science etc.

(f) Equipment

On the whole, the college has enjoyed the use of superior teaching equipment most of which could be used for higher courses. Introduction of higher courses would not therefore involve purchasing of large amount of equipment. However, the college would look towards JICA for assistance in specialised equipment such as would be requested by the lecturers concerned.

(g) The Japanese Staff

One of the contributing factor of success in the implementation of the college programme has been due to the availability of competent Japanese staff who have worked side by side with the kenyan staff for the last six years. It is hoped that the Japanese Government would continue this assistance during the next period of cooperation.

(h) Extension of Cooperation

The College expects that launching of the HND courses would be achieved by 1994. It is hoped that the Japanese Government would therefore extend the cooperation period from April, 1988 to 1994.

(i) Research

One of the encouraging developments of the College is the emerge of the Research Department. This facility would play a big role in staff development and in supporting the courses that are taught in this college. It should also be noted that the college has a need in making a national contribution in research and particularly in such areas of agriculture for arid and semi-arid lands. The College would also carry out research on general horticulture and farm machinery for small scale farmers.

In conclusion, the college Academic Board would undertake to prepare a master plan for future developments to be discussed by the two Governments at an appropriate date. We have already a brief document which would form the basis of the master.

JOMO KENYATTA COLLEGE OF AGRICULTURE & TECHNOLOGY

(JKAT)

INSTITUTIONALIZATION OF
RESEARCH ACTIVITIES AT JKAT

**(A BRIEF REPORT PRESENTED TO THE PROJECT STEERING
COMMITTEE MEETING ON 1ST SEPTEMBER, 1986)**

1. THE STAGES AND STEPS

The task of institutionalization of research activities at JKCAT has achieved some degree of success during the last two years or so. The strategy adopted has involved six stages, which are briefly presented below:

STAGE ONE: CREATING AWARENESS (APPROX. 12 MONTHS)

- (i) College Authorities made statements at formal and informal meetings about research and its relevance, especially with respect to creation and advancement of knowledge.
- (ii) Statements about research and extension repeated again and again at Staff General Meeting, Faculty Meeting, and Departmental Staff Meeting.
- (iii) Light discussions encouraged and individual staff questions answered as appropriate. For example questions and comments such as these arose:
What is research?
But we are teachers, so why do we bother about research?
We are not qualified to do research.
Research can only be done by persons with Masters or Doctorate degrees.
- (iv) As more questions were asked at the various meetings, the College Authorities got the feeling that interest was being generated among the staff, especially those who had no research training or exposure.

STAGE TWO: SETTING THE FOUNDATIONS

- (i) The College Authorities appointed a Research Task Force under the Chairmanship of the Deputy Principal (the writer of this report) to encourage the development of research as an academic activity.
- (ii) Task Force held its first meeting and set out the objectives to be achieved in the shortest possible time. Two such objectives were:
 - To create further awareness and interest in research within the College Community, and
 - To prepare the groundwork for the institutionalization of research in the College.
- (iii) Task force held brainstorming sessions to determine the speed and direction of the programme.
- (iv) Planning was initiated for a Research Seminar.
- (v) Task force embarked on the drafting of the JKCAT RESEARCH POLICY
- (vi) A few individual staff had started some research work using existing facilities in the departments. These were given moral support and encouragement.

STAGE THREE: CREATING CONFIDENCE

- (i) The Task force organised a highly successful one-day Research Seminar in the College.
- (ii) The Research Seminar was attended by /total of eighty-two /a participants, including leading professors and Researchers from Universities, Colleges, Polytechnics, Research Institutes, and Government Ministries.

- (iii) High quality papers were presented and discussed. One paper was specifically on Government policy on the organization and co-ordination of research activities in Kenya.
- (iv) The Seminar provided a rare opportunity for College staff to exchange ideas with practising Researchers and thereby gain the necessary self-confidence.
- (v) The Seminar discussed and recommended the draft JKCAT RESEARCH POLICY which had been prepared by the Task Force.
- (vi) Seminar proceedings were prepared, published and distributed to all participating institutions. Adequate copies were made available in the College Library.
- (vii) Linkages were created with Research Institutions and other Colleges.
- (viii) JKCAT RESEARCH POLICY document was submitted to the Board of Governors for approval.

STAGE FOUR: ESTABLISHING PROCEDURES

- (i) The Board of Governors approved the JKCAT RESEARCH POLICY, and the documents made available in the College Library.
- (ii) The College Authorities appointed the first RESEARCH & PUBLICATI COMMITTEE under the chairmanship of the Deputy principal. Most members of the Research Task Force were retained in the new Committee.
- (iii) The Committee set out its functions and started deliberating on Rules and Regulations to govern the conduct of research in the College.

- (iv) Rules and Regulations (also called Guidelines) published and made available to Heads of Departments and the College Library.
- (v) Research Application forms developed and made available.
- (vi) The Committee held regular meetings to interview staff applying for permission to conduct research.
- (vii) The Board of Governors created a Research Vote and made funds available. The Japan International Cooperation Agency (JICA) agreed to assist the College by providing funds for Research projects approved by the College.
- (viii) Committee encouraged group research involving Japanese Experts and Kenyan Staff as a strategy for technology transfer.
- (ix) Committee encouraged short seminars for staff to present their proposals and progress reports. (This continued confidence building started earlier in stage three).

STAGE FIVE: ASSESSING THE NEEDS

- (i) As the committee interviewed staff who presented their research proposals and progress reports, careful note was taken of:

 weaknesses in proposal writing, problem definition, selection of appropriate tools/methods, budgeting, and work planning.

 Problems in relating proposal to the body of knowledge in specific fields of study.
- (ii) The points noted helped the Committee in determining the needs of the staff in terms of research skills.

- (iii) Heads of Departments were encouraged to give information on the special needs of their staff with respect to research skills.

STAGE SIX: MEETING THE NEEDS

- (i) The Committee planned long term programmes to meet the staff training needs in all aspects of research.
- (ii) The first Research workshop was planned and held on April 8 and 9 1986. (See Appendices I & II)
- (iii) A series of workshops are planned so that staff knowledge skills, and attitudes can be built systematically to the highest level.
- (iv) To supplement the workshops, the following are also planned for:
 - (a) Regular Research Seminars for discussing final reports on completed projects.
 - (b) Short attachments of staff to Industries and Research Institutions.
 - (c) Visits to Research Institutions.
 - (d) Lectures by visiting Scholars and Researchers.
 - (e) Establishment and strengthening of a Research Section in the College Library.

2. MEETING THE TRAINING NEEDS

Research and Publishing require special knowledge and skills which many staff in Colleges and Polytechnics may not have acquired during their initial education and training. Moreover, there is always a need to keep up-dating oneself in the latest language and techniques of the scientific world. To meet the identified training needs with respect to research and publishing, the Research and Publications Committee has planned a strategy of WORKSHOPS, SEMINARS, and VISITS aimed at improving the knowledge, skills, and attitudes of our academic staff.

The first workshop was held on 8th and 9th April, 1986 and was attended by thirty members of staff from various departments within the College. Plans for follow-up workshops, seminars and visits/ attachments are under way. (See Appendix I & II for the programme and report on the workshop respectively).

3. CONCLUSION

The process of institutionalizing research activities in Colleges and Polytechnics provides quite a challenge for those who may wish to undertake it. As this author observed during the closing session of a Research Seminar.

".....Research is a very difficult "baby" to bring up in a College such as ours. It has to go through a long gestation "period". At birth, the "labour pains" are usually excessive and severe. After birth, the growth rate is usually very slow and the baby may suffer from manutrition (inadequate funding), lack of attention (busy teaching schedule), and poor handling (lack of experience and interest). The baby can very easily die before reaching adulthood". (J K C A T 1984)

Different institutions of higher learning, particularly those of intermediate level, will have different experience in attempting to institutionalize research activities. They will meet with varying degrees of success as they proceed.

This report describes briefly the strategies and steps taken by Jomo Kenyatta College of Agriculture and Technology. The journey toward establishment of research activities passes through some interesting periods. There are also some dull and frustrating periods. All the same, we had to keep a steady pace so that interest was not lost.

Our general direction for staff development is toward improved knowledge, skills, and attitudes. We cannot hope to develop others in future unless we develop ourselves. And certainly, there is need for us to prepare our institutions for the future when excellence in TEACHING, PRODUCTION, DEVELOPMENT and INNOVATION will be the determinants of the quality and quantity of support from the taxpayer.

It is our hope that the academic staff will become more committed to research activities so that they are better prepared to face the challenges associated with future vertical growth of the College. The financial support from JICA and the Board of Governors is very much appreciated.

APPENDIX I: BRIEF REPORT ON THE FIRST JKCAT RESEARCH WORKSHOP HELD ON TUESDAY AND WEDNESDAY, 8TH - 9TH APRIL, 1986

AIM OF THE WORKSHOP

The aim of the workshop was to strengthen research skills of staff at the College, with special emphasis on selection and definition of research topics and proposal writing.

SPECIFIC OBJECTIVES

By the end of the workshop, the participants were expected to be able to:

1. Define research and state its significance to social and technological development.
2. Select and define a research problem.
3. Construct suitable hypotheses for selected research problems.
4. Write a research proposal.
5. Identify suitable research tools and methods applicable to research in own field of specialization.

RESOURCE PERSONS

The following Resource Persons handled the two-day workshop most effectively:

1. Dr. J. S. Maranga (Kenyatta University) - Leader
2. Dr. K. Mwiria (Kenyatta University)
3. Mr. A. R. Gacuhi (Kenya Industrial Research & Development Institut.
4. Mr. J. B. Owuor (Coffee Research Foundation, Ruiru)

WORKSHOP CO-ORDINATOR

Dr. G.A. Orie, Deputy Principal, Chairman of Research and Publications Committee, assisted by members of the committee.

WORKSHOP PARTICIPANTS

NAME

DEPARTMENT

1. Mrs. E. M. Kahangi

Horticulture

2. Mr. G.G. Mwangi	Agricultural Engineering
3. Mr. C. Kilyukia	Food Processing
4. Mr. H. Moriya	Horticulture
5. Miss N. Okada	Japanese Expert (Administration)
6. Mr. R. M. Kamonde	Library
7. Mr. F. Oduori	Mechanical
8. Mr. S. Musyoki	Electrical & Electronics Engi.
9. Mr. T. Tsuzuki	"
10. Mr. I. Inoti	Mechanical Engineering
11. Mr. F.G.M. Nalwa	Electrical & Electronics Engi.
12. Mr. E.N. Ndungu	"
13. Mr. P.M. Ndunda	"
14. Mr. G. Kameru	Building & Civil Engineering
15. Mr. F. Rwanda	"
16. Mr. S. B. A. Otera	"
17. Mr. A.O. Watako	Horticulture
18. Mr. M. Mbugua	"
19. Miss E. Omutere	"
20. Miss V. W. Ngumi	"
21. Dr. S.G. Gichuru	Food Processing
22. Mr. S. Moturi	"
23. Mr. P. N. Kariuki	"
24. Mr. S. Wanjii	Mechanical Engineering
25. Mr. H. Mwai	"
26. Mr. J. Mutheke	"
27. Mr. S. Maina	"
28. Dr. L. Wahome	General Studies
29. Mrs R. N. Maina	"
30. Miss L.B. Ogutu	Library

GENERAL EVALUATION OF WORKSHOP

1. The Resource persons handled the sessions effectively and with a lot of enthusiasm.
2. Participants showed a lot of interest and maximum participation.
3. The handouts were very useful indeed to the participants.
4. The workshop objectives were fully covered as had been planned, and it is hoped that the knowledge acquired will be utilized by the teachers as they undertake research and teaching duties in the College.
5. The meals provided by the College were excellent and provided an extra opportunity for friendly exchanges between the participants and Resource Persons. Thanks to the Principal for providing the meals free of charge to the workshop.
6. Follow-up workshops/programmes will be implemented in future.
7. The workshop helped to strengthen links already created between the institution and other research organizations.

DR. GEORGE A. ORIE, Ph.D.

June, 1986

GAO/rgm

APPENDIX II: PROGRAMME FOR THE FIRST RESEARCH WORKSHOP 8TH-9TH APRIL, 1986

TUESDAY, 8.4.86

08:00 - 08:30: Opening remarks and introduction of Workshop Resource Persons and Participants (Dr. G.A. Orie, Deputy Principal/Chairman, Research and Publications Committee).

08.30 - 10.30: Meaning and Concept of Research (Dr. J.S. Maranga, Dr. Mugo Gachuhi and Dr. K. Mwiria).

10.30 - 11.00: TEA BREAK

11.00 - 01.00: Research Problem Selection and Definition (Dr. J.S. Maranga, Dr. Mugo Gachuhi, Dr. K. Mwiria, and Mr. Owuor).

01.00 - 02.00: LUNCH BREAK

02.00 - 04.00: Group Work on Research Problem Selection and Definition (All Resource Persons).

04.00 - 04.30: TEA BREAK

04.30 - 05.30: Presentation and Discussion of Group Reports (All Resource Persons).

WEDNESDAY, 9.4.86

08.30 - 09.30: Research Tools and Methods (Dr. J.S. Maranga and D.K. Mwiria).

09.30 - 10.45: Writing of Research Proposals (Dr. J.S. Maranga, Dr. K. Mwiria, Mr. A.R. Gachuhi, and Mr. J.B. Owuor).

10.45 - 11.00: TEA BREAK

11.00 - 01.00: Group/Individual Work on Research Proposals (All Resource Persons).

01.00 - 02.00: LUNCH BREAK

02.00 - 03.00: Reflection on Group/Individual Proposals (All Resource Persons).

03.00 - 04.30: Case Studies on Research Proposals (Mr. A.R. Gachuhi and Mr. J.B. Owuor).

04.30 - 05.00: TEA/CLOSING SESSION

<u>PROJECT NO</u>	<u>TITLE</u>	<u>RESEARCHERS</u>	<u>STATUS</u>
R&P/HO/5/86	Growth response of chrysanthemum (morifolium Ramat) to night break Lighting	A.O.Watako P.N.Kinyanjui	Proposal awaiting future approval.
R&P/HO/6/86	Rapid multiplication of pathogen free and nursery horticultural plants by Tissue culture.	Y. Fujume H. Moriya E.M.Kahangi	In progress
R&P/BC/1/85	Sand in Kenya as construction material	N.Arai D.G.Waweru J.G.Kamau	In progress
R&P/EE/1/86	Research on solar energy Application for small scale irrigation.	T. Okubo N.Morita J.Noizaka Z.Inoue S.Musyoki J.M.Mwangi J.O.Otieno J.O.K'Onyango	In progress
R&P/ME/1/86	Economical selection of construction equipment for projects in Kenya	C.N. Arshford E.Morita	In progress
R&P/ME/2/86	Studies on the draft efficiency (Tractive characteristics) of a power tiller on Kenyan soil, using a transmission strain gauge draft dynamometer.	I.K.Inoti T. Abe T.Inoue	In progress
R&P/ME/3/86	Utilization of heavy plant workshops in Kenya.	K.Hasegawa A.C.Juma	In progress

NOTE:

- AE - Agricultural Engineering
- FP - Food Processing
- HO - Horticulture
- BC - Building & Civil Engineering
- EE - Electrical Engineering
- ME - Mechanical Engineering

ジョモケンヤッタ農工大学専門家派遣実績

1986年8月25日現在

No	氏名	指導科目	派遣期間	人月
(チームリーダー)				TOTAL 113
1	川口 龍夫	電 気	S.55.10. 6~58.10. 5	72
2	和田 宏		S.58.11. 1~60. 4.20	17
3	杉山 隆彦	食品化学	S.61. 4.18~63. 4.18	24
(アシスタントチームリーダー)				TOTAL 215
4	中島 行男		S.55.11.16~58. 3.31	29
5	中野 武		S.58. 5.21~61. 4.20	35
3	杉山 隆彦	食品化学	S.55.10. 6~61. 4.17	66
6	木村 伸一	建築設計	S.56. 3.29~63. 4.18	85
(農学部園芸学科)				TOTAL 166
7	守屋 幡司	園 芸	S.55.10.24~60. 4.20	54
8	庵原 遜	ソ菜, ATL	S.56. 3.29~57.11.	20
9	早川 禎治	作物学	S.56. 5.22~58. 5.21	24
10	真山 滋志	植物病理学	S.58. 2.26~58. 4. 2	(短) 2
11	酒井 清六	昆 虫 学	S.58. 2.21~58. 3.23	(短) 2
12	森田 信晴	ソ 菜	S.58. 4. 1~60. 2. 4	22
13	森次 益三	作物学	S.58. 4. 9~59. 4. 8	12
14	関 太 郎	植物分類	S.58.11. 7~59.11. 6	12
15	松原 幸子	植物病理	S.58.12.22~59. 2.16	(短) 2
16	奥 八 郎	植物繁殖	S.58.12.29~59. 2.25	(短) 2
17	高見 伸治	植物生理	S.59.10. 4~59.11.30	(短) 2
18	藤目 幸弘	蔬菜園芸	S.60. 7. 5~61. 6.28	12
10	真山 滋志	植物病理学	S.60. 8.30~60.10.19	(短) 2
(農学部農業工学科)				TOTAL 201
19	中沢 宗一	農業機械	S.56. 3.15~58. 9.30	31
20	釣田 薫	農業土木	S.56. 3.29~60. 4.19	49
21	松田 清明	農業機械	S.57.10. 8~59. 4. 4	18
22	坂井 純	農業機械	S.58. 7.29~58. 8.13	(短) 1
23	岩崎 浩一	農業機械	S.58.10.27~59. 1.26	(短) 3
24	木村 俊範	農業機械	S.58.11. 1~59.10.27	12
25	平塚 彰	土木工学	S.58.11. 1~59.10.28	12
26	菊沢 正裕	農業土木	S.59.12.30~60. 3. 9	(短) 2

No.	氏 名	指 導 科 目	派 遣 期 間	人 月
27	島 田 清	農 業 土 木	S.59.12.30~60. 3.31	(短) 3
28	淺 辺 忠	農 業 土 木	S.60. 1.18~60. 2. 2	(短) 1
29	青 山 康	農 業 土 木	S.60. 9.12~60.11.28	(短) 2
30	篠 和 夫	農 業 土 木	S.60. 9.12~60.11.28	(短) 2
31	服 部 九二雄	農 業 土 木	S.60.12.24~61.12.23	12
32	桑 原 孝 雄	農 業 土 木	S.61. 1. 9~61. 4. 3	3
33	角 田 学	農 業 土 木	S.61. 3. 3~63. 4.18	25
34	永 田 雅 輝	農 業 機 械	S.61. 3.18~62. 3.17	12
35	鳥 巢 諒	農 業 機 械	S.60. 4.18~61. 4.18	12
22	坂 井 純	農 業 機 械	S.61. 7.14~61. 8. 1	(短) 1
(農学部食品加工学科)				TOTAL 149
3	杉 山 隆 彦	食品化学, TL	S.55.10. 5~63. 4.18	90
36	保 坂 秀 明	食 品 工 学	S.55.11.17~56. 1.18	(短) 2
37	浅 利 喬 泰	加 工 施 設	S.58. 2.26~58. 4. 2	(短) 2
38	宮 本 拓	食 品 微 生 物	S.58. 6.16~59. 6.15	12
39	渡 辺 泰 男	工 場 計 画	S.59. 1.21~60. 4.20	15
40	久保田 清	食 品 工 学	S.59. 9.28~59.10.28	(短) 1
41	橋 本 秀 夫	食 品 衛 生	S.59. 9.28~59.11.24	(短) 2
42	塚 本 茂 吉	食 品 加 工	S.60.10.12~62.10.12	24
43	中 江 利 孝	食 品 微 生 物	S.61. 7.28~61. 8.18	(短) 1
(農 場)				TOTAL 59
12	森 田 信 晴	蔬 菜 栽 培	S.60. 2. 5~62. 4.20	22
44	野 坂 治 朗	農 業 土 木	S.60. 6.19~62. 6.18	24
45	青 木 幹 治	農 業 機 械	S.60.12. 9~61.12. 8	12
46	鳥 村 和 夫	農 場 管 理	S.61. 8.20~61. 9. 4	(短) 1
(工学部土木建築)				TOTAL 251
47	勝 田 順一郎	水 資 源	S.55.10. 6~57.10. 5	24
48	偉 川 哲 光	構 築 材 料	S.56. 3. 1~59. 2.28	24
49	六 車 熙	建 築	S.58. 3. 7~58. 4. 3	(短) 1
50	井 上 英 文	建 築, ATL	S.56. 3.29~58. 6.29	28
6	木 村 伸 一	建 築 設 計, ATL	S.56. 3.29~63. 4.18	85
51	岡 依 栞	水 資 源	S.58. 3.23~60. 4.20	25
52	岡 田 佳 久	建 築	S.58. 4. 9~60. 4.20	25

No	氏 名	指 導 科 目	派 遣 期 間	人 月
53	新井 徳昭	土 木 工 学	S.59. 4.21~62. 4.20	24
54	中山 昭夫	建 築	S.59.10.18~59.11. 8	(短) 1
55	野町 隆三	建 築	S.60. 2.11~62. 4. 6	(短) 2
56	滝木 勝	建 築	S.61. 6.18~62. 6.17	12
(工学部機械工学科)				TOTAL 202
57	丑田 晋	建 設 機 械	S.56. 3.29~58. 3.28	24
58	藤井 佳明	機 械 工 学	S.56. 3.29~59. 2.28	30
59	鈴木 隆志	自 動 車	S.56. 5.22~59. 5.21	36
60	二宮 嘉弘	建 設 機 械	S.58. 5.21~59. 6.13	14
61	藤山 潤	建 設 機 械	S.58.12.29~59. 4. 9	(短) 4
62	森田 英嗣	建 設 機 械	S.59. 3.24~62. 4.20	37
63	宮本 啓二	農 業 機 械	S.59. 3.24~59.12.14	9
64	長谷川 功次	建 設 機 械	S.60. 4.18~62. 8.21	24
65	阿部 武美	農 業 機 械	S.60. 8.22~61. 8.21	12
66	太田 義信	農 業 機 械	S.61. 8. 5~62. 8. 4	12
(工学部電気電子工学科)				TOTAL 139
1	川口 龍夫	電 気, TL	S.55.10. 6~58.11. 5	9
67	尾野 泰文	電 子	S.55.12. 7~57.12. 6	24
68	長谷川	電 子	S.58. 3. 7~58. 4. 3	(短) 1
69	三浦 隆	電 子	S.58. 4. 9~60. 4. 8	24
70	小林 康浩	電 子	S.59. 1.15~59. 3.15	(短) 2
71	斎藤 皓彦	電 子	S.59. 1.15~59. 4.18	(短) 3
72	都築 孝	電 子	S.59. 3. 5~62. 4.20	37
73	大久保 孝志	電 気 工 学	S.59. 3. 9~62. 4.20	37
74	副井 裕	電 子	S.59. 7.16~59. 8. 3	(短) 1
75	松岡 節	電 子	S.61. 7. 7~61. 8. 1	(短) 1
(教育工学)				TOTAL 73
76	岡田 尚美	教 育 工 学	S.59. 3. 8~62. 4.18	73
(調整員補佐)				TOTAL 12
77	小川 登志夫		S.61. 5. 2~62. 5. 1	12
(施設管理指導)				TOTAL 1
78	菊池 俊彦	施 設 管 理 指 導	S.59. 7.25~59. 8. 8	1

ジョモケニヤッタ農工大学隊員派遣実績

1986年8月25日現在

No	氏名	指導科目	隊次	派遣期間
農学部園芸学科				
1	鈴木洋二	作物	55-3	S.56.3.6~58.3.5
2	中西健二	土壌肥料	56-2	S.56.10.7~58.10.6
3	井戸栄治	植物学	56-2	S.57.9.7~58.10.6
4	高尾晃彦	作物	58-1	S.58.7.29~60.7.28
5	田中樹	土壌肥料	58-2	S.58.10.7~62.4.6
6	高橋誠	花卉	58-2	S.58.10.7~60.10.6
農学部農業工学				
7	高見順一	数学	55-3	S.56.3.6~56.6.物故
8	山本郁夫	農業機械	56-2	S.56.10.7~59.5.6
9	伊佐喜代治	農業土木	57-3	S.58.1.21~60.2.20
10	片平寛	農業機械	58-2	S.58.10.7~60.10.6
11	松井秀樹	農業機械	58-4	S.59.4.4~61.10.3
12	長谷川庄司	農業土木	59-1	S.59.7.27~62.7.26
13	江島均	農業機械	60-1	S.60.7.26~62.7.25
14	長谷川啓光	農業機械	60-3	S.61.3.29~63.3.28
15	橋本祐一	農業土木	61-1	S.61.8.3~63.8.2
農学部食品加工学科				
16	小崎宏	食品加工	55-3	S.56.3.6~59.5.5
17	西山栄徳	食加化学	57-1	S.57.7.30~60.7.29
18	秋本徹	食品加工	58-2	S.58.10.7~61.10.6
19	古川隆利	食加(肉)	58-3	S.59.1.21~60.11.12
20	荒西睦雄	食品加工	60-1	S.60.7.26~62.7.25
農場				
21	田中昭彦	家畜飼育	60-1	S.60.7.26~62.7.25
22	番義弘	果樹	60-2	S.60.12.20~62.12.19
日本語				
23	川窪敏子	日本語	55-4	S.56.3.31~58.3.30
24	長瀬修	日本語	57-3	S.58.1.21~61.1.20
25	中沢秀樹	日本語	57-4	S.58.4.1~60.4.31
26	前田幸彦	日本語	60-2	S.60.12.20~62.12.19

No	氏 名	指 導 科 目	隊 次	派 遣 期 間
工学部土木建築学科				
27	村 上 正 吾	土 木 水 利	56-1	S.56. 7.29~58. 7.28
28	渡 辺 岳 志	土 木 工 学	58-1	S.58. 7.29~61.10.28
29	古 木 泰 雄	測 量	60-1	S.60. 7.26~62. 7.25
30	加 藤 康 浩	建 築	60-2	S.60.12.20~62.12.19
31	大 矢 俊 次	土 木 水 利	61-1	S.61. 8. 3~63. 8. 2
工学部機械工学学科				
32	時 田 邦 弘	農 業 機 械	55-3	S.56. 3. 6~59. 9. 6
33	高 橋 勉	自 動 車	56-1	S.56. 7.29~58. 7.28
34	山 本 日 出 樹	自 動 車 工 学	58-1	S.58. 7.29~61. 8.28
35	井 上 高 志	農 業 建 設 機 械	シニア	S.58.11. ~63. 4.18
36	平 出 貞 夫	工 作 機 械	61-2	S.60.12.20~62.12.19
工学部電気学科				
37	遠 藤 普	電 子 機 器	55-3	S.56. 3. 6~58. 3. 5
38	深 田 秀 夫	電 気 工 学	57-3	S.58. 1.21~60. 1.20
39	鎌 谷 啓 行	電 子 工 学	59-1	S.59. 7.27~61. 8.26
40	井 上 善 次 郎	電 気 機 器	59-3	S.60. 3.29~62. 3.28
41	森 田 高 宏	電 気 機 器	61-1	S.61. 8. 3~63. 8. 2

J.I.C.A. 研修員派遣実績

No	年度	学部	学科	氏名	研修科目	研修期間	受入先	職歴	最終學歷	備考
1	1980	農学部	園芸	E.M. Gichuki	昆虫学	1981-01-08~1983-03-31期	岡山大学農学部	岡山大学理学部教官	岡山大学動物学1975卒	
2	1980	農学部	園芸	D.O. Sigunga	育種学	1981-02-11~1983-03-31期	岡山大学農学部	農業省農業試験場	岡山大学農学修士1980卒	
3	1980	農学部	食品	C.M. Kenji	食品分析	1981-02-12~1982-12-27期	岡山大学農学部	大塚酒造・食品検査官	岡山大学理学1976卒	
4	1980	工学部	電気	C.W. Nyukuri	電気設備	1981-02-11~1982-03-31期	京都大学工学部		岡山大学電気工学	
5	1980	工学部	土建	P.N. Kanau	石工	1981-02-11~1982-03-31期	京都大学工学部		岡山大学土木建築	
6	1980	工学部	土建	A. Fanyoike	木工	1981-01-09~1982-03-31期	庄田鉄工, 住友建設他		岡山大学工学	
7	1982	農学部	園芸	E.E. Omutere(Miss)	果樹栽培	1982-06-17~1984-03-31期	岡山大学農学部	農業省地方事務教官	岡山大学農学部	
8	1982	農学部	園芸	M.G. Mbusua	野菜栽培	1982-06-17~1984-03-31期	岡山大学農学部	農業省地方事務教官	岡山大学農学部	
9	1982	農学部	農工	E.N. Kamotho	農薬土木	1982-06-17~1983-12-31期	東京農大農学部	高等学校農学教師	岡山大学工学	
10	1982	農学部	農工	R.R. Akenga	農薬機械	1982-06-17~1984-01-31期	東京農大農学部	農業省地方開発担当官	岡山大学農学部	
11	1982	農学部	食品	M.C. Niiyukia	食品衛生	1982-06-17~1984-03-31期	広大生物生産学部	自然資源省水産教官	岡山大学農学部	
12	1982	工学部	土建	S.M. Njoroge	配管	1982-06-24~1983-07-04期	大阪電気軌道			
13	1982	工学部	土建	S.N. Mugera	水資源工学	1982-10-05~1984-03-25期	京都大学工学部	水開発省治水担当官	岡山大学地形成学	
14	1982	工学部	土建	E.D. Kamara	土木	1982-10-05~1984-03-25期	京都大学工学部	岡山大学工学部	岡山大学土木科	
15	1982	工学部	土建	A. Akumu	建築	1982-10-05~1984-03-25期	福山大学工学部	国立住宅校舎技術補	岡山大学建築科	
16	1982	工学部	機械	M.F. Odutori	農薬機械	1982-10-05~1984-03-25期	帯大農学部	岡山大学工学部	岡山大学機械科	
17	1982	工学部	機械	S.N. Muiru	農薬機械	1982-06-24~1983-07-04期	京都大学工学部	岡山大学工学部	岡山大学機械科	
18	1982	工学部	機械	C.P. Arshford	土木機械	1982-06-24~1983-11 期	京都大学工学部	岡山大学工学部		
19	1982	工学部	電気	J.P. Mburu	発電	1982-06-24~1983-07-04期	京都大学工学部	岡山大学工学部		
20	1983	農学部	園芸	A.O. Watako	花き園芸	1984-01-31~1985-04-02期	岡山大学農学部	農業省研究官	岡山大学農学部	
21	1983	農学部	農工	J.T. Makanga	農薬機械	1984-01-31~1985-03-04期	帯広畜大	農業省教官		
22	1983	農学部	食品	P.N. Kariuki	食品加工機	1983-06-23~1984-06-22期	帯広畜大		岡山大学機械工学科	
23	1983	工学部	土建	D.C. Waveru	建設施工	1983-11-22~1984-12-26期	京都大学工学部		岡山大学土木科	
24	1983	工学部	土建	M.S. Ibrahim	水資源工学	1983-11-22~1984-12-26期	鳥取大学工学部	水資源省技術補	岡山大学土木科	
25	1983	工学部	機械	S.M. Maina	自動車	1983-11-22~1984-12-26期	大阪大学工学部	建設省	岡山大学機械工学科	
26	1983	工学部	機械	A.C. Juma	土木機械	1983-11-22~1984-12-26期	京都大学工学部		岡山大学機械工学科	

No.	年度	学部	学科	氏名	研修科目	研修期間	受入先	職歴	履修学歴	備考
27	1983	工学部	機械	A.O. Odawa	農業機械	1983-11-29~1984-12-28	京都大農学部	Hughes Ltd.	K.T.T.C.1981年卒	
28	1983	工学部	機械	G.N. Thoigu	接	1983-06-23~1984-06-22	大阪工大		カ-7部 電気学科1979年卒	
29	1983	工学部	電気	J.M. Kwangi	電気機器	1983-11-22~1984-12-26	京都大工学部		カ-7部 電子学科1979年卒	
30	1983	工学部	電気	E.W. Kwangi	電子工学	1983-11-22~1984-12-26	京都大工学部		カ-7部 電気学科1982年卒	
31	1983	工学部	電気	E.N. Ndungu	電子工学	1983-11-22~1984-12-26	鳥取大工学部	B.A. Power & Lighting		
32	1983	工学部	電気	E.M. Mwaniki	電子工学	1983-11-22~1984-12-26	鳥取大工学部			
33	1984	農学部	食品	G.C. Malvaro(Mrs.)	製パン	1984-05 ~1984-12-24	日本製パン学校	高等学校教員	1982大政学部1974年卒	
34	1984	農学部	農工	J.A. Owaka	農業機械	1984-05 ~1985-07	岩手大農学部	農業省技官	1977大工学部 1980年卒	
35	1984	農学部	食品	S.R.C. Gichuru	食品微生物	1984-12 ~1985-10	岡山大農学部	滋養省栄養衛生官		
36	1984	工学部	電気	S.J. Nyaga	電気通信	1984-04 ~1985-06	鳥取大工学部	情報報道省	カ-7 警察学校 1981年卒	
37	1984	工学部	電気	J.O. Otieno	電力	1984-11-15~1985-12-25	鳥取大工学部	労働省電力管理官		
38	1984	工学部	電気	J.O. Konyango	電力	1984-11-15~1985-12-25	鳥取大工学部			
39	1984	工学部	電気	C. Wawalwa	電力	1984-11-15~1985-12-25	鳥取大工学部			
40	1984	工学部	電気	J.C. Kigia	自動車	1985-02-26~1986-03	大阪産大工学部			
41	1985	農学部	園芸	V.W. Ngumi(Miss)	植物生理	1985-09-16~1986-03-22	広島大農学部			
42	1985	農学部	園芸	W.N. Gachathi(Miss)	農業共同組合論	1986-02-25~1986-10-03	岡山大農学部			
43	1985	農学部	食品	L.B. MwaJuma(Miss)	食品加工	1985-09-30~1986-04-30	香川大農学部			
44	1985	工学部	電気	C.O. Otieno	電子	1985-12-05~1986-12-22	鳥取大学			
45	1985	工学部	電気	F.K. Kicilingu	電気	1985-12-05~1986-12-22	鳥取大学			
46	1985	工学部	機工	J.M. Kabira	溶接・板金	1985-04-18~1986-03-20	集団コース			
47	1985	工学部	士建	N.W. Waiithaka	木工	1985-04-18~1986-03-20	集団コース (木材加工)			
48	1985	工学部	機工	G.W. Wanjau	機工	1985-08-01~1986-07-05	大阪産大			
49	1985	工学部	士建	H.C. Mwaura	コンピュータ工学	1985-08-23~1986-04-02	京都大学			
50	1985	工学部	士建	F.W. Simba	建築デザイン	1985-09-30~1986-11-01	福山大学 小丸 建築設計室			
51	1985	工学部	電気	P.K. Kisingara	電子	1985-08-01~1986-10-04	鳥取大学			
52	1985	工学部	士建	G.M. Thumbi	公衆衛生・福祉	1985-03-05~1986-10-04	大阪産大 筑波農業センター			
53	1986	工学部	機工	J.M. Gachaki	生産機械工学	1986-04-03~1987-03-16	集団コース (上級技能者訓練コース)			

JKCAT 研修員派遣実績

No	年度	学部	学科	氏名	研修科目	研修期間	受入先	職歴	最終学歴	備考
1	1981	農学部	食品	S.Moturi	食品工学	1981-04 ~ 1984-03	帛 広島大生物生産修士			
2	1981	工学部	機械	I.K.Inoti	農業機械	1981-04 ~ 1984-03	帛 京都大農業工学修士			
3	1982	農学部	園芸	P.N.King'ori	植物病理	1982-10 ~ 1985-04	帛 東京農業大 修士			
4	1982	工学部	電気	S.Mushoki	電子工学	1982-10 ~ 1985-10	帛 電気通信大 修士			
5	1983	農学部	農業工学	M.C.Makokha	土壌水利	1983-04 ~ 1986-03	帛 琉球大 修士			
6	1984	農学部	食品	R.G.Omolo	畜産加工	1984-04 ~ 1987-04	帛 帝広畜産大 修士			
7	1984	工学部	土建	G.Wanyona	建築施工	1984-04 ~ 1987-04	帛 京都大建築施工修士			
8	1985	工学部	土建	J.K.Z.Mwatelah	都市計画	1985-09 ~ 1988-03	帛 鳥取大工学部			
9	1986	農学部	園芸	F.Murege	育種学	1986-04 ~ 1989-03	帛 岡山大学農学部			
10	1986	農学部	食加	G.M.Kenji	食品化学	1986-04 ~ 1988-03	帛 岡山大学農学部			
11	1986	工学部	土建	M.S.Ibrahim	土木建築	1986-04 ~ 1988-03	帛 鳥取大工学部			

JOCV C/P 研修員派遣実績

No	年度	学部	学科	氏名	研修科目	研修期間	受入先	職歴	最終学歴	備考
1	1985	農学部	園芸	N.P.Kiovanjui	園芸	1985-05-01 ~ 1986-01-31	帛 神奈川県農業大 学校			

物故研修員

Mr.Litali 電気

1986年度 JICA ・ 集団 ・ 文部省研修員派遣計画及び実施

JICA 研修

'86年7月31日現在

No	氏名	学科	研修科目	受入期間	受入先
1	S.W.T.Mugucia	農工	農業工学	'86. 7.30 ~ '87.10. 3	岩手大
2	S.J.Okwachi	農工	農業機械	'86. 7.30 ~ '87. 7. 2	東京農工大
3	J.W.Wandati	食加	パン製造	'86. 9. 2 ~ '87. 3.28	日本パン学校 他
4	S.A.Otera	土建	建築構造	'86.10. ~ '87.11.	京都大 集団コース 鳥取大
5	J.M.Kamero	土建	土質工学	'86.10. ~ '87.11	
6	F.M.Rwanda	土建	建築積算	'86.10. ~ '87.11	
7	D.K.Mukundi	機工	建設機械	'86. 7.30 ~ '87. 9.19	
8	J.M.Gachaki	機工	生産機械	'86. 4. 3 ~ '87. 3.16	
9	D.B.Konditi	電気	電気通信	'86. 7.30 ~ '87. 7. 5	
10	P.M.Githingi	ワロ大	高級研修	'86.10. ~ '86.	
11	P.O.Okaka	NOEST	高級研修	'86.10. ~ '86.	

集団研修

No	氏名	学科	研修科目	受入期間	受入先
1	P.N.Kiarie	機工	自動車	'86.10. 2 ~ '87. 3.30 '87. 3.31 ~ '87. 9	日本語研修B 自動車整備

文部省留学生

No	氏名	学科	研修科目	受入期間	受入先
1	H.Murage	園芸	育種	'86. 4. 7 ~ '89. 3	岡山大
2	G.M.Kenji	食加	食品化学	'86. 4. 7 ~ '88. 3	岡山大
3	M.S.Ibrahim	土建	水利工学	'86. 4. 7 ~ '88. 3	鳥取大
4	J.K.Inoti	機工	農業機械	'86.10. ~ '	京都大

第3国個別研修

No	氏名	学科	研修科目	受入期間	受入先
1	P.M.Oduori	機工	農機	'86. 1. ~ '87.12	Asian Institute of Technology(Thai) Technological Univ. of Philippines(Philippines)
2	J.M.Gichira	土建	建設	'86.11. ~ '89.10	

供与機材一覧表

S. 61. 8.25
JKCAT PROJECT

年 度	船 荷 空荷証券番号	金 額	到着年月日	主 要 品 目	活用状況
55	YHVO-0065	(円) 5,185,506	56. 6.25	マイクロバス2台	効果的に活用
	8	572,238	56. 7. 1	マイクロバス部品	"
	20-013	26,551,383	56. 8. 7	キャビネット他	"
	20XO-043	7,315,858	56. 8.31	プラスチック及び肥料他	"
	20XO-008	27,523,063	56.11. 4	トラクター	"
56	YHVO-0046	73,387,595	57. 5. 7	スイッチボックス他	"
	YHVO-0050	3,619,290	57. 6.12	プロセスシュミレーター他	"
57	082-22639772	14,863,569	58. 3. 6	英文技術図書	"
	YHVO-0044	1,357,209	58. 4.29	英文技術図書	"
	YHVO-0043	13,903,786	58. 4.29	ホールローダー他	"
	YHVO-0042	102,837,220	58. 4.29	フォークリフト他	"
	YHVO-0031	263,000	58. 6.13	Library Congress	"
	YHVO-0028	14,569,000	58. 6.13	Spare parts 他	"
	58	YHVO-0106	86,800,251	59. 4.17	Measuring apparatus 他
59	YHVO-0119	27,365,991	60. 4.18	分光光度計他	"
	YHVO-0011	25,202,400	60. 6.26	機械工学部品他	"
	YHVO-0020	8,206,635	60. 8.21	書籍他	"
	125-08546300	737,708	61. 4.23	書籍(文献供与)	"
	現地調達分	Ksh 20,040	61. 3.18	冷蔵庫	"
	(2月レート	Ksh 119,781	61. 3.26	製図機械	"
	1 Ksh = ¥12.45)	Ksh 321,543	未 着	書籍	
	"	Ksh 110,000	61. 4.15	コンバイン	効果的に活用
	"	Ksh 91,024	61. 4.15	トラクター及び部品	"
	"	Ksh 19,500	61. 4.15	自動車機関伝導部	"
	"	Ksh 716,000	61. 5.22	イスズ大型バス	"
	TK-1435	28,095,711	61. 7.17	三菱フォルテ他	"
	TK-1439	6,259,962	61. 7.17	エンジン動力計	
	TK-1456	7,962,590	未 着	スピードワトメーター他	

携行機材一覧表 (購送分のみ)

S. 61. 8. 1
JKCAT PROJECT

年 度	船 荷 空荷証券番号	金 額	到着年月日	主 要 品 目	活用状況	
56	055-13467462	(円) 281,046	56. 6. 9	書籍 (鈴木, 早川)	効果的に活用	
	055-13467451	1,089,938	56. 6. 9	書籍 (丑田)	"	
	055-13500012	213,905	56. 8. 1	書籍 (庵原, 俣川, 藤井)	"	
	055-13500583	108,308	56. 8. 24	書籍 (川口)	"	
	074-85601084	1,728,025	56.10.12	書籍 (英文テキスト)	"	
	055-14907535	710,354	56.12.11	コピートナー, マスター	"	
	055-14907804	277,979	57. 1. 15	簡易土壌分析器	"	
	055-16523135	169,771	57. 3. 4	書籍 (庵原)	"	
	131-50219212	183,467	57. 3. 4	書籍16mmフィルム (中沢, 庵原)	"	
	055-16523570	3,018,004	57. 4. 23	ネーヘッドプロジェクター他	"	
57	055-17846010	1,420,912	57. 6. 18	ハロゲンランプ他	"	
	055-17846290	10,011,351	57. 7. 30	映画フィルム5巻	"	
	055-17846382	517,969	57. 8. 14	ソノディアトラクターマニアル	"	
	YHW0-0025	1,821,833	57. 9. 11		"	
	055-17846452	37,985	57. 8. 15	スベアパーツ	"	
	082-22639326	367,481	57.10.18	(松田, 藤井)	"	
	YHW0-15	613,789	57.12.11	(松田, 藤井)	"	
	055-19518505	1,127,612	58. 1. 1	機材修理チーム部品	"	
	20-27	1,036,252	58. 1. 27	英語テキスト	"	
	58	082-38017066	1,007,921	58.11.10	コピー, トナー (杉山)	"
125-93852830		506,355	58.10.13	VTRテープ, タイプリボン他 (三浦)	"	
Excess		15,000	58. 9. 18	リレスキックボックス (杉山)	"	手荷物で
055-19547920		65,937	58. 7. 23	文房具 (森次)	"	(Excess)
055-20541415		1,751,827	58. 7. 29	アログリーダー 他 (森次)	"	になって
082-37831651		1,859,396	58. 9. 24	Incubator 他 (宮本拓)	"	いない。
055-20541323		420,000	58. 7. 3	シムル 及び部品 (二宮)	"	
125-33886090		866,692	58.11.20	ソニーシリアブルリーダー (杉山)	"	
125-93852793		410,147	58.11.14	英文テキスト (釣田)	"	
126-93852852		580,887	58.11.24	書籍, コンピュータープロ ッター (和田, 木村俊)	"	
Excess		290,110	58. 1. 17	プラトニクス教材 (斎藤)	"	
125-33836053		855,324	58.12.29	経水製造装置他 (森田)	"	
082-38017291		347,453	59. 1. 23	書籍, グラ刷原稿 (宮本拓, 俣川)	"	

年 度	船 荷 空荷証券番号	金 額	到着年月日	主 要 品 目	活用状況
58	082-33493265	(円) 205,205	59. 1.28	チーズワックス他 (杉山)	効果的に活用
	082-38493781	224,812	59. 3. 3	現地語教科書 (釣田)	"
	082-37821582	331,130	59. 3. 3	タイプライター 文房具 (和田)	"
	125-32433192	321,215	59. 3. 6	品質管理教材 (渡辺, 森次)	"
	125-32433225	96,573	59. 3.12	文房具 (渡辺)	"
	125-33886366	195,598	59. 3.12	書籍 (和田)	"
	125-33886355	285,340	59. 3.12	テキストブック他 (斉藤)	"
	214-98331041	1,747,231	59. 3.22	ライスハラー, 乾燥機他 (木村俊, 関)	"
	214-98331091	2,079,488	59. 3.25	マイクロコンピュータ, プリンター (都築, 岡田, 和田)	"
	214-98331144	207,014	59. 3.25	タイプライター他 (平塚)	"
	125-32433240	1,144,934	59. 4. 1	スライダ, 書籍 (森田英)	"
	082-39268331	216,581	59. 3.26	書籍 (回塚, 岡田尚)	"
	125-33886230	1,919,146	59. 2.13	マイクロコンピュータ (都築)	"
	125-33886462	1,079,477	59. 3.26	マニュアル, 書籍, 文具 (森田英)	"
	59	057-65862565	284,066	59. 5.12 (59. 6. 6)	現地語教科書 (二宮)
125-04937085		771,600	59. 5.19 (59. 6.20)	現地語教科書 (中野, 二宮) (建築材料俵川専門家分)	"
055-28475860		2,335,074	59. 6. 7 (59. 7.16)	現地語教科書 (建築材料テキスト)	"
082-38490185		384,211	59. 6.29 (59. 9.17)	建築関係参考図書 (岡田佳)	"
055-28788336		568,349	59. 7. 5 (59.8.2.3)	C型張力計, ビラム風速計 (宮本)	"
214-98331741		616,743	59. 8.19 (59.10. 3)	植物標本台紙 (関)	"
082-38490244		45,084	59. 8.10 (59. 9.27)	Stock Form Paper for GP-809 (木村俊)	"
(専門家再赴任 時携行)			59. 8.24 (59. 8.24)	留学生関係図書2種 (中野)	"
131-48031270		150,000	59. 8.19 (59. 9.14)	ECD Cell for Gas Chromatograph (杉山)	"
		(FOB OSAKA)			

年 度	船 荷 空荷証券番号	金 額	到着年月日	主 要 品 目	活用状況
59	082-41056142	(円) 113,189	59. 9. 2 (59. 9.20)	書籍 (森田)	有効に活用
	125-06155063	858,814	59. 9.16 (59.10.26)	建機用TYR テープ (森田)	"
	082-41056816	209,433	59.10.21 (59.11.26)	電子部品 (デジタル用) (都築)	"
	(専門家 再赴任時携行)	(366,030) (6,702,593)	59.10. 4 (59.10. 5)	試薬他 (高見)	"
	125-06144666	639,138	59.10.28 (60. 1.24)	カメラ, OHP他 (関, 木村俊)	"
	125-06144644	69,565	59.10.21 (60. 1.9)	アークロフェトル, さらし粉他 (高見)	"
	125-06155483	3,759,553	59.11.14 (60.11.24)	牛乳プラントパイプ他 (上田)	"
	082-41056820	518,613	59.11.16 (60. 1.16)	タイプライターリボン他 (木村伸)	"
	082-41056831	627,524	59.11.18 (60. 1. 9)	オシロスコープ (三浦)	"
	082-38490325	1,337,264	59.11.23 (60. 1.24)	ノズルクリーニングキット 他 (宮本, 釣田)	"
	214-93619242	2,317,785	59.11.26 (60. 2.27)	電動タイプ他 (岡田, 荒井, 渡辺)	"
	9/24 1179	1,301,644	59.12.21	噴霧機他 (森田伸)	"
	082-38490336	1,423,515	59.12.28 (60. 2.13)	電子読上皿ハカリ他 (丘, 中野)	"
	082-41386446	1,528,143	60. 1.20 (60. 3.15)	コピー用カーボントナー (岡田尚)	"
	082-38493350	646,671	60. 1.20 (60. 3.15)	マイクロコンピューター (菊沢)	"
	082-42163203	216,045	60. 2. 3 (60. 3.15)	歪みゲージ他 (島田)	"
	YHW0-0066	1,331,415	60. 2.20 (60. 6. 3)	石英ガラスウール他 (守屋, 杉山)	"
	125-11810212	1,090,458	60. 2.18 (60. 3. 9)	OHP用のTP (森田英嗣)	"

年度	船荷 空荷証券番号	金額	到着年月日	主要品目	活用状況
60	082-41386461	(円) 621,389	60. 2. 15 (60. 4. 2)	クボタ農機特殊パーツ (宮本敬二)	有効に活用
	082-42163553	1,332,010	60. 4. 4 (60. 6. 10)	培地他 (杉山)	"
	125-11810750	793,694	60. 5. 13 (60. 6. 7)	鉄車輪他 (鳥巢)	"
	125-11882496	143,183	60. 7. 13 (60. 7. 24)	書籍 (購送輸送混載) (長谷川)	"
	082-42351932	1,690,908	60. 7. 19 (60. 7. 26)	ワードプロセッサ (岡田)	"
	082-43668026	1,047,923	60. 8. 3 (60. 8. 7)	データ解析装置他 (藤目)	効果的に活用
	(専門家赴任時 同時携行)	129,920	60. 8. 31	ベトリ皿, 試薬他 (真山)	"
	082-38490594	87,515	60. 8. 29 (60. 9. 11)	測温抵抗器他 (杉山)	"
	057-70988750	809,975	60. 12. 24 (61. 1. 16)	水中サンドポンプ他 (野坂)	"
	082-38490701	266,104	60. 12. 26 (61. 1. 16)	フロッピーディスク他 (杉山)	"
	125-08538095	1,014,027	61. 1. 14 (61. 1. 14)	ペンレコーダー一式 (塚本)	"
	082-38490723	398,422	61. 1. 16 (61. 1. 29)	インクリボン他 (岡田)	"
	082-44567261	1,391,426	61. 3. 5 (61. 3. 12)	トリミングインク, 書籍他 (岡田他)	"
	214-11792896	1,694,252	61. 3. 31 (61. 4. 3)	ブレーキ動力計他 (永田)	"
	082-38490804	264,027	61. 3. 31 (61. 4. 3)	フロッピーディスク他 (岡田)	"
	125-08551491	942,614	61. 4. 28 (61. 4. 30)	スキ, 鉄車輪他 (永田)	"
	082-38490852	423,132	61. 5. 12 (61. 6. 27)	スキ刃他 (永田)	"
	082-44567563	50,315	61. 5. 16 (61. 6. 27)	ビデオテープ (永田)	"

年 度	船 荷 空荷証券番号	金 額	到着年月日	主 要 品 目	活用状況
61	214-12876091	(円) 1,615,037	61. 5.29 (61. 6.27)	ワードプロセッサ他 (小川)	効果的に活用
	082-44952552	590,671	61. 6.29 (61. 7.14)	農機具パーツ他 (坂井)	"
	082-38190874	1,989,091	61. 7.13 (61. 7.16)	パーソナルコンピューター 他 (松岡)	"
	082-38190896	749,222	61. 7.25 (61. 7.31)	インキュベーター (中島)	"

JICA