

CONFIDENTIAL

12/Nov./1991

3. 2 University College Council Staff (Continued)

No	Name (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED	
			1990	1991	1992	1993	1994		1995
19	S (H.D.)	④Water Resources Engineering							MOE (M.Sc., Ph.D. at Gunma Univ.)
20	T (M.Sc.)	④Public Health Engineering							MOE (Ph.D. at Kyoto University)
21	U (B.Sc.)	②Structures							LOCAL UNIVERSITY (M.Sc. at UON)
22	V (Diploma)	②Structures							
23	W (Part III)	④Water Resources Engineering/ Public Health Engineering							LOCAL UNIVERSITY (H.D.)
24	X (Part III)	④Water Resources Engineering/ Public Health Engineering							LOCAL UNIVERSITY (H.D.)
25	Y (Part III)	⑤Geodesy/Surveying							JICA C/P TRAINING
26	Z (Part III)	②Structures							LOCAL UNIVERSITY (H.D.)

THE SUMMARY OF SCHOLARSHIP AND TRAINING BETWEEN 1991 AND 1995 (CIVIL ENGINEERING DEPARTMENT)

NO.	JAPANESE FUND	1990/91		1991/92		1992/93		1993/94		1994/95		TOTAL	
		PLAN	RESULT	PLAN	RESULT								
1.	JICA COUNTERPART (C/P) TRAINING	1	0	2	1	2	2	2	2	2	2	2	9
	FIELD	④		①, ②	①	②, ⑤	②, ④	②, ④	②, ④	③, ④			
2.	THIRD COUNTRY TRAINING	0	0	1	0	1	0	0	0	1	1	1	3
				②		⑤		⑤					
3.	MONBUYO (MINISTRY OF EDUCATION) SCHOLARSHIP	0	0	1	1	1	1	1	1	1	1	1	4
				④	④	④	④	④	④	④	④	④	
4.	LOCAL UNIVERSITY SCHOLARSHIP	2	2	2	2	2	2	2	2	2	2	2	8
		①, ③	①, ③	②, ②	②, ②	②, ②	②, ②	②, ②	②, ②	②, ②	②, ②	②, ②	
	TOTAL	3	3	6	4	5	4	4	4	5	5	5	24

IMPORTANT MEMO.

1) The above number is based on Chap. 3, 1-2 (Staff Development Plan).

2) In addition to the above requests, 10 more scholarships towards the attainment of Ph.D. Degrees are needed to be secured for M.Sc. staff holders.

b (Present)

ACADEMIC ACTIVITIES OF CIVIL ENGINEERING DEPARTMENT

1 RESEARCH POLICY

<p><u>1. Objectives</u></p> <p>1.1 To carry out basic and applied research in Civil Engineering and related areas.</p> <p>1.2 To carry out research for Governments, business, commerce, industry, educational and scientific institutions as well as other research bodies.</p> <p>1.3 To strengthen teaching and training through research.</p> <p>1.4 To direct research activities towards the application of research and development to definite problems in order to improve the social and economic conditions of Kenya.</p> <p>1. To transfer as well as to develop appropriate technology.</p> <p><u>2. Areas of Priority</u></p> <p>2.1 Problems relating to Civil Engineering education content, teaching and training.</p> <p>2.2 Problems relating to the environment, transportation, settlements, housing, disasters, resource utilization.</p> <p>2.3 Reclamation of arid, semi-arid areas and wastelands.</p> <p><u>3. Strategies</u></p> <p>3.1 Financial Resources</p> <ol style="list-style-type: none"> 1. International donor agencies such as JICA, CIDA, SIDA, World Bank, UNESCO, etc. 2. National organisations such as the National Council for Research & Technology. 3. Contract research from Governments, businesses, educational and scientific institutions and other research bodies. 4. JKUCAT research funding. 5. Other donors. <p>3.2 Personnel Resources</p> <ol style="list-style-type: none"> 1. Teaching and technical staff. 2. Students at diploma, undergraduate and postgraduate levels. 3. Collaborators including visiting researchers. 	<p><u>3.3 Time Scale</u></p> <p>To combine short term research directed towards applied research and long term research directed towards basic research.</p> <p>3.4 Collaboration</p> <p>To collaborate with other departments and institutes within JKUCAT and others outside JKUCAT for mutual benefit.</p> <p>3.5 Research Training</p> <p>To utilize local and external research facilities for training in research in various areas of interest to the department.</p> <p>4. Possible research to be undertaken</p> <p>See Chap. 4.3-4.</p> <p>5. Requirements for the implementation</p> <p>5.1 Setting up of laboratories for areas in Structural Engineering, Highways and Traffic Engineering, Public Health Engineering and Environmental Engineering and strengthening of existing laboratories (Concrete, Soil Mechanics and Hydraulics).</p> <p>5.2 Equipment and materials for the laboratories.</p> <p>5.3 Research training.</p> <p>5.4 Vehicles to provide transport for research projects.</p> <p>5.5 Computer hardware and software.</p> <p>5.6 Research funds for data collection, analysis, typing, printing and publication, documentation, etc.</p> <p>5.7 Funds for seminar.</p> <p>6. Others</p> <p>Research should be carried out which will be appropriate for Kenya. Make haste slowly.</p>
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2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.	Mr. K. S. Makhana	A PHYSICAL MODEL STUDY OF CATCHMENT PROCESSES (M. Sc. Thesis Paper done between September, 1989 and September, 1990 at JKU/CAT)	Postgraduate Students' Seminar at UON	22/June/1990
2.	Mr. K. S. Makhana	STUDY ON SIMULATED CATCHMENT HYDROLOGY	An Annual Seminar on Engineering for Rural Development, KSAE at Kabete	1-3/Aug./1990
3.	Mr. K. S. Makhana and Dr. Tsunoda	POLICY AND LAW IN THE ADMINISTRATION OF WATER RESOURCES IN KENYA	The Environment 2000' Conference at UNEP	23-27/Oct./1990
4.	Messrs. Nyadava, Makhana, Wwangi, Tsunoda, Dchiambo(AE) and Kaluli (AE) AE = Agricultural Engineering Department	STUDIES ON WATER RESOURCES MANAGEMENT FOR ECONOMIC DEVELOPMENT IN KENYA (1)	JICA Research Report	March/1991
5.	Messrs. Makhana and Tsunoda	Paper 1: CRITICAL VEGETATION COVER FOR MINIMUM SOIL LOSS Paper 2: THE EFFECT OF STORM MOVEMENT ON THE TIME OF CONCENTRATION	International Congress on Alleviation of Natural Disasters at Arusha, Tanzania	23-27/Sep./1991
6.	Dr. M. Tsunoda	GUIDELINES FOR PREPARATION OF PROJECT PROPOSALS	Department Seminar	14/Nov./1990
7.	All Staff of Civil Engineering Dept.	THE CIVIL ENGINEERING DEPARTMENT WE WANT IN THE YEAR 2000	Department Seminar	21/Nov./1990
8.	Mr. S. V. Obiero (University of Nairobi)	TRANSPORTATION IN A METROPOLITAN REGION	Department Seminar	13/Dec./1990
9.	Mr. T. Eigawa	A BRIDGE FOR THE FUTURE	Department Seminar	23/Jan./1991
10.	Dr. M. Tsunoda	NATURAL DISASTERS IN KENYA AND JAPAN	Department Seminar	6/Feb./1991
11.	All Staff of Civil Engineering Dept.	TECHNOLOGICAL SOLUTIONS FOR ECONOMIC DEVELOPMENT IN KENYA NOW & 21ST CENTURY	National Seminar	13-14/March/91
12.	Mr. J. Kinuthia	DRY COMPACTION METHOD OF ROAD CONSTRUCTION	Department Seminar	2/May/1991
13.	Prof. H. Tsukaguchi	TRANSPORTATION ENGINEERING IN JAPAN	Department Seminar	7/May/1991
14.	Dr. D. U. Hwa (Kenyatta University)	A CASE STUDY OF KANG PLAIN FLOOD DISASTER	Department Seminar	23/May/1991
15.	Mr. A. Wakendo	HIGHWAY PAVEMENT PERFORMANCES	Department Seminar	6/June/1991
16.	Some Staff of Civil Engineering Dept.	WOMEN IN SCIENCE AND TECHNOLOGY	National Seminar	7/July/1991

3 LIST OF CURRENT RESEARCH PROGRAMMES

from April, 1991 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	Mr. J. K. Z. Mwitelah	Systems Analysis of Transportation Planning in Metropolitan Regions - Case Study of Nairobi -	On-going Research	JICA LOCAL SCHOLARSHIP
2.	Messrs. Mutharu, Tsunoda, Kalui (AE) and Lenga (AE)	STUDIES ON WATER RESOURCES MANAGEMENT FOR ECONOMIC DEVELOPMENT IN KENYA (2) Part 1: Establishment of Mdarugu River Experimental Catchment Part 2: Soil Erosion and Sediment Transport in Agricultural Watersheds	On-going research [Final Report to be published in March, 1992]	JICA RESEARCH FUND
3.	Messrs. Abiero-Gary, Mwitelah Tsunoda and Agoki	DEVELOPMENT AND EFFECTS OF ROAD TRAFFIC SAFETY MEASURES	On-going research [Final Report to be published in March, 1992]	JICA RESEARCH FUND

AE = Agricultural Engineering Department

4 AREA OF RESEARCH INTERESTED BY STAFF IN CIVIL ENGINEERING DEPARTMENT

NO.	FIELD	MAIN TITLE (Long Term Research)	NAME	SUB TITLE
1.	Transportation Engineering and Urban Planning	URBAN AND REGIONAL PLANNING	Mr. J. K. Z. Weatelah	Impact of Development on Urban and Regional Areas (Environmental Planning)
2.			Mr. J. K. Z. Weatelah	Application of Remote Sensing to Urban and Regional Planning
3.			Mr. J. K. Z. Weatelah	Transportation Planning in Urban Areas
4.			Dr. G. S. Agoki	Infrastructure and Transportation Engineering
5.			Mr. Abiero-Gariy Z. C.	A Study of Factors Affecting Road Traffic Flow in Nairobi City
6.	Water Resources Engineering	WATER RESOURCES PLANNING AND MANAGEMENT	Mr. K. S. Makhanu	Flood Routing Studies and Integrated Catchment Management and Planning
7.			Mr. K. S. Makhanu	Field Survey and Outdoor Experiment on Soil Erosion and Its Control
8.	Structures and Foundation Engineering	SOILS AND FOUNDATION ENGINEERING	Mr. M. O. Winja	Work Study and Productivity of Plant
9.			Mr. D. O. Sitandi	Pre-stressed Concrete
10.			Mr. J. M. Kinuthia	Appropriate Compaction Methods in Kenyan roads
11.			Mr. L. M. Njuki	Soil Cement for Construction Materials
12.			Mr. W. O. Oyawa	Reinforced Concrete
13.			Public Health Engineering	WATER AND WASTEWATER MANAGEMENT
14.	Highway Engineering	SURFACE WATER DRAINAGE	Mr. S. M. Mulei	Surface Water and Its Control on Kenya Roads (Rural and Urban Areas)
15.	Appropriate Technology	Water Catchment	Mr. Kibe and Mr. Matano	Roof Catchment Technique of Rain Water in JKUAT Campus

EQUIPMENT PURCHASING PLAN (1991-1994) OF CIVIL ENGINEERING DEPARTMENT

1991 FISCAL YEAR		1992 FISCAL YEAR		1993 FISCAL YEAR		1994 FISCAL YEAR	
① Surveying Equipment Set - 2 sets (測量器用セット)	¥ 5,143,000	① Spargers for Equipments (スパーガ - パ - ッ)		① Asphalt Testing Apparatus (アスファルト試験機)	¥ 3,500,000	① Spargers for Equipments (スパーガ - パ - ッ)	¥ 12,000
② Standard Camera Set with 35-135 mm lens - 1 (標準カメラセット - 135mm レンズ)	¥ 179,000	② Cores of Meter (コアの量り測定器)	¥ 400,000	② Asphalt Testing Apparatus (アスファルト試験機)	¥ 1,000,000	② Propeller Type Current Meter Censor - 2 (プロペラ型電流計センサー - 2)	¥ 270,000
③ Strain Meter Apparatus - 1 (ひずみ測定器)	¥ 900,000	③ Autoclaves - 1 (オートクレーブ)	¥ 700,000	③ Equipment for Environment Pollution (環境汚染用測定器)	¥ 800,000	③ Nylon Coated Tube - 22 (ナイロン被覆管 - 22)	¥ 573,000
* ④ Electric Jig Saw - 1 (電動鋸)	¥ 880,000	④ Hand Sieves Shaker - 1 (手動式ふるい振とう機)	¥ 150,000	④ Measuring Equipments for Construction (工事用測定器)	¥ 1,800,000	④ Cone Type Glass Flow Meter - 1 (錐形ガラス流量計)	¥ 160,000
⑤ Internal Vibrator for Concrete (コンクリート用振動器)	¥ 100,000	⑤ Asphalt Test Sieves Set (19) (アスファルト試験ふるいセット)	¥ 120,000	⑤ Materials and Structures (材料実験用測定器)	¥ 1,000,000	⑤ Water Distillation Apparatus - 1 (純水製造装置)	¥ 700,000
Sub Total	¥ 7,602,000	⑥ Liquid Limit Device (Cone-type and Auto-counter Type) (液性限度測定器)	¥ 280,000	⑥ Equipment of Hydraulic Experiments (水理実験用測定器)	¥ 3,100,000	⑥ Autoclaves - 1 (オートクレーブ)	¥ 700,000
		⑦ Weather Station System (総合気象観測装置)*	¥ 2,630,000	Sub Total	¥ 10,000,000	⑦ Hand Sieves Shaker - 1 (手動式ふるい振とう機)	¥ 150,000
				Special Request	¥ 10,000,000	⑧ Asphalt Test Sieves Set (19) (アスファルト試験ふるいセット)	¥ 120,000
						⑨ Liquid Limit Device (Cone-type and Auto-counter Type) (液性限度測定器)	¥ 280,000
						⑩ Weather Station System (総合気象観測装置)*	¥ 2,630,000
						Sub Total	¥ 5,600,000

SUMMARY OF BUDGET ALLOCATION IN EACH FIELD (UNIT: ¥)

FIELDS OF CIVIL ENGINEERING	1991	1992	1993	1994
1. Construction Materials & Structures	1,400,000	0	1,300,000	1,800,000
2. Water Resources Engineering	0	370,000	0	1,000,000
3. Public Health Engineering	0	860,000	4,100,000	800,000
4. Foundation Engineering	0	292,000	1,300,000	0
5. Highway Eng. & Transportation Engineering	0	270,000	1,400,000	4,500,000
6. Surveying & Photogrammetry	5,322,000	578,000	0	0
7. Workshop Practice and Others	880,000	2,630,000	0	0
TOTAL	7,602,000	5,009,000	8,100,000	8,100,000

Special Request	1991	1992	1993	1994
**⑤ Loading System Set for Structural Mechanics - 1 set (構造工学実験用荷重システムセット)	0	0	0	4,500,000
SPECIAL BUDGET for STRUCTURAL MECHANICS				+ ¥20,000,000

*: to be purchased in Kenya

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1. STAFF LIST OF ARCHITECTURE DEPARTMENT

As of

1.1 Academic Staff under University Council

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc.	Remarks Required for
1	Dr. Ngunjiri, P.G.	39	B.Arch., M.A. Phd.	Senior Lecturer	Environmental Design	Arch. Design Landscape Design	
2	Mr. Wanyona Githae	38	B.A.(Building Economics) M.Eng.	Lecturer	Construction Management	Building Economics, Economics for Designers	
3	Mr. Ongeru Togos	41	B.Arch., M.Arch.	Lecturer	Public Building	Architectural Design, Materials & Con. Tech.	
4	Mr. Mburu, Francis M.	30	B.Arch., M.Arch.	Lecturer	Area Physical & Urban Planning	Arch. Design, Physical & Urban Planning.	
5	Mr. Misiani Charles O.	32	B.Arch., M.Arch.	Lecturer	Architectural Design	Arch. Design, History & Theory of Arch.	
6	Mr. Mukono, K.M.	27	B.Arch.	Lecturer <i>Tutorial Fellow</i>	Architectural Design	Arch. Design, Social, Cultural, etc.	
7	Mr. Wamwangi, J.M.	28	B.Arch., M.Arch.	Lecturer	Architectural Design	Arch. Design, Materials & Con. Tech.	
8	Mr. Kigundu, Samuel	30	B.Arch., M.Arch.	Lecturer	Architectural Design	Arch. Design, Building Science.	
9	Mr. Ochieng, C.C.	32	B. Arch.	Asst. Lecturer	Architectural Design	Arch. Design, History of Arch.	ON STUDY LEAVE.
10	Mr. Ngunjiri, F.K.	27	B.Arch.	Tutorial Fellow	Architectural Design	Arch. Design, Building Science	
11	Mr. Mungai, Charles M.	30	B.Sc. Arch.	Tutorial Fellow	Architectural Design	Arch. Design	ON STUDY LEAVE.
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JKUCAT STAFF LIST

FACULTY: ENGINEERING DEPARTMENT: ARCHITECTURE

NO	GRADE	NAME	SPECIALIST	QUALIFICATION	TRAINING EXPERIENCE (Y/O/A)	DATE OF BIRTH	REMARKS
1	P. LECTURER	MMAURA Henry G.	Construction Technology	TTC.	Vocational Training, Mar 68	1938	
2	S. LECTURER	KIMANI Makaba J.	Quantity Surveying	B. Arch. (UNN), MA (Christian Minis)	-----	1962, Nov. 2.	
3	LECTURER	MBOROTHI Njoroge S.	Building Service, Plumbing.	FTC	vocational Training, 82-88	1953, Jun.	
4	LECTURER	WANDERI Peterson M.	Environmental Building Science	HND	Fukyama Univ. Aug 67 - Oct 88	1953	
5	LECTURER	EMANDA Moses F.	Building Construction	HND	Fukyama Univ. Nov 86 - Dec 87	1966, Aug. 3.	
6	A. LECTURER	THWAIJI James H.	House Planning	HND	Kyushu Univ. Sep 89 - Oct 90	1961, Jul. 25.	
7	A. LECTURER	LAMKA Absalom H. V.	Building Construction	HND	-----	1957, Nov. 1.	
8	A. LECTURER	NGUGI Paul I.	Reinforced Concrete	HND	Fuku Univ. Aug 89 - Sep 90	1961, May, 21.	
9	A. LECTURER	MUTHAMIA Daniel M.	Building Construction	HND	-----	1952	
10	A. LECTURER	WAMBUGU Nicholas W.	Carpentering	FTC	Vocational Training 85-86	1952, Jul.	
11	LECTURER	AKORU Samuel A.	Arch. Design	B. Arch. (UNN, 1980)	Fukyama Univ. Jun 82 - Apr 84	1942, Nov. 15	

* P: Principal, S: Senior, A: Assistant.

1. 2 Technical Staff under University Council

As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	Mr. Muiru, Abraham K.	38	Final Craft Certificate	Technician	Masonry & BlockLaying	MASONRY WORKSHOP
2	Mr. Ngugi, Joseph K.	38	Trade Test Grade I	Technician	Joinery & Carpentry	WOOD WORKSHOP
3	Mr. Ogeto, Robert O.	35	Final Proficiency	Technician	Masonry	MASONRY WORKSHOP
4	Mr. Muruga, Peter Kigo	33	Final Craft Certificate	Technician	Plumbing & Water Supply	PLUMBING WORKSHOP
5	Mr. Kimani, John M.	34	Final Craft Certificate	Technician	Carpentry & Joinery	WOOD WORKSHOP
6	Mr. Kinuthia, Joseph W	27	Technician III	Technician	Architectural Drawing	DRAWING OFFICE
7	Mr. Kenduwa, Seraser E	30	Build. Const. Part III	Technician	Building Construction	ENV. LABORATORY
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2 STAFF RECRUITMENT PLAN OF ARCHITECTURE DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1981/82	1982/83	1983/84	1984/85	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	PROF.	Arch. Design or Urban Design or Landscape Design		1			1	POSSIBLE WITH TIME
2.	ASST. PROF.	Arch. Design or Urban Design or Landscape Design	1		1	1	3	POSSIBLE WITH TIME
3.	SENIOR LECTURER	Architectural Design	1		1	1	3	POSSIBLE
4.	SENIOR LECTURER	Environmental Science/Studies	1				1	NOT POSSIBLE
5.	SENIOR LECTURER	Urban Design	1				1	NOT POSSIBLE
6.	SENIOR LECTURER	Construction Technology	1				1	NOT POSSIBLE
7.	SENIOR LECTURER	History & Theory of Architecture		1			1	NOT POSSIBLE
8.	SENIOR LECTURER	Structural Design			1		1	POSSIBLE
9.	LECTURER	Architectural Design	1	1			2	POSSIBLE
10.	LECTURER	Structural Design	1				1	POSSIBLE
11.	LECTURER	Building Technology	1				1	POSSIBLE
12.	LECTURER	Construction Technology	2		1		3	POSSIBLE
13.	LECTURER	Fine Art in Architecture	1				1	POSSIBLE
		TOTAL	14	4	4	4	26	
14.	LECTURER	CAD						NOT POSSIBLE
15.	LECTURER	Environmental Design		1			1	NOT POSSIBLE
16.	ASST. LECTURER	Building Technology	1				1	POSSIBLE
17.	ASST. LECTURER	Architectural Design	1				1	POSSIBLE
18.	ASST. LECTURER	Structural Design	1				1	POSSIBLE
19.	ASST. LECTURER	Fine Art in Architecture				1	1	NOT POSSIBLE

2. 2 Technical Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	TECHNOLOGIST	Architectural Design				1	1	POSSIBLE
2.	CHIEF TECHNICIAN	Architectural Design		1			1	POSSIBLE
3.	TECHNICIAN	Concrete Laboratory Work		2			2	POSSIBLE
4.	TECHNICIAN	Env. Laboratory		1			1	NOT POSSIBLE
5.	TECHNICIAN	Drawing Office			1		1	POSSIBLE
6.	TECHNICIAN	Plumbing Workshop		1			1	POSSIBLE
7.	TECHNICIAN	Photo Laboratory		1		1	2	POSSIBLE
8.	TECHNICIAN	Landscape Plants & Horticulture			1		1	NOT POSSIBLE
9.	TECHNICIAN	CAD	1				1	NOT POSSIBLE
10.								
11.								
12.								
TOTAL			1	6	2	2	11	

3. STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF DEPARTMENT (DRAFT)

No	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED
			1990	1991	1992	1993	1994	
3.1 University College Council Staff								
TEACHING STAFF:								
1	M.ARCH.	ARCH. DESIGN						Ph.D. (2)
2	B.ARCH.	ENVIRONMENTAL SCIENCE						MASTERS DEGREE
3	B.ARCH.	CONSTRUCTION TECHNOLOGY AND MATERIALS.						MASTERS DEGREE
4	B.ARCH.	C.A.D.						MASTERS DEGREE
5	B.ARCH.	HISTORY & THEORY OF ARCH.						MASTERS DEGREE
6	M.ARCH.	ENVIRONMENTAL SCIENCE						COUNTERPART TRAINEE
7	M.ARCH.	C.A.D.						COUNTERPART TRAINEE
8	M.ARCH.	CONSTRUCTION TECHNOLOGY						COUNTERPART TRAINEE
9	M.ARCH.	ARCHITECTURAL CONSERVATION						COUNTERPART TRAINEE
10	M.ARCH.	INTERIOR DESIGN (ARCH.)						COUNTERPART TRAINEE
11	M.ARCH.	TECHNICIANS:						COUNTERPART TRAINEE
11	END	ENV. LAB.						COUNTERPART TRAINEE
12	ND	PHOTO LAB.						COUNTERPART TRAINEE
13	END	C.A.D.						COUNTERPART TRAINEE
14	ND	LANDSCAPE PLANTS & HORTICULTURE						COUNTERPART TRAINEE
15								
16								
17								
18								
19								
20								

DEPARTMENT

4. ACADEMIC ACTIVITIES OF.
4.1 RESEARCH POLICY

1. Objectives

- a) To develop both staff and students in the field of research.
- b) To establish and strengthen field extension in areas where development agencies or institutions are involved with respect to our research areas.
- c) To build up local reference materials for both academia and professionals.

2. Areas of Priority

- a) Housing in all its aspects - Designs for good space utilization, building methods and materials, environmental comfort, and appropriateness and affordability of housing.
- b) Documentation of teaching materials/manuals.

4. Possible research to be undertaken

- a) System building: Use of local materials, and prefabricated industrial systems.
- b) Reinforced concrete beams and columns experiments to obtain basic knowledge from design to accord architectural structures.
- c) "Model House": Departmental project to design and implement a house that answers housing problems of Kenyas.
- d) Historical Studies.

5. Requirements for the implementation

- a) Research assistants
- b) Technicians
- c) Funding.

3. Strategies

- a) To use both interdisciplinary and multidisciplinary approaches for research.
- b) To liaise with developers in order to apply our research findings.
- c) To disseminate research findings through mass media, exhibitions, conferences/workshops, and publications.
- d) To make research apart of theory & design studio courses.

4.2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.	EIGAWA, NGUGI, OYAWA & STANDI	STUDIES ON THE STRUCTURAL USE OF PRESTRESSED CONCRETE BEAM WITH FUMICE AS COARSE AGGREGATE.	IN PROGRESS	
2.	NGUNJIRI, EIGAWA, MBURU, TANISHIGE MUKONO & TAZAKI	TRADITIONAL ARCHITECTURE IN KENYA	IN PROGRESS	
3.	ALL TEACHING STAFF	"MODEL HOUSE"	PROPOSAL IN PROGRESS	
4.				
5.				
6.				
7.				
8.				
9.				
SEMINAR				
1.	DEPARTMENT	REGIONAL SEMINAR ON "TECHNOLOGY ORIENTED ARCHITECTURAL EDUCATION"	DOCUMENT READY, BUT LACK OF FUNDS	
2.				
3.				
4.				
5.				

4. 3 LIST OF CURRENT RESEARCH PROGRAMMES

From April, 1990 up to December, 1990

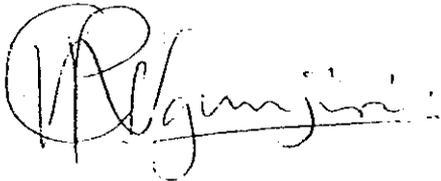
NO	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	NGUNJIRI, EIGAWA, MBURU, TANISHIGE, MUKONO AND TAZAKI.	TRADITIONAL ARCHITECTURE IN KENYA		J.K.U.C.A.T.
2.	ALL TEACHING STAFF	MODEL HOUSE		J.K.U.C.A.T.
3.	EIGAWA, NGUGI, OYAWA AND STANDI.	STUDIES ON THE STRUCTURAL USE OF PRESTRESSED CONCRETE BEAM WITH PUNICE AS COARSE AGGREGATE.		J.K.U.C.A.T.
4.	MISLANI, WAMWANGI AND NGUNJIRI (DR.)	RADIATION LEVELS IN BASEMENTS		NONE
5.	ONGERI	RADIATION PROTECTION IN BUILDINGS.		NONE

LABORATORIES IN THE DEPARTMENT OF ARCHITECTURE

As the Department matures, we expect to have the following fully developed laboratories:

- : Environmental laboratory.
- : Photographic laboratory.
- : Computer Aided Design laboratory.

Attached are documents itemizing equipments needed in both Environmental and Computer Aided Design laboratories. We are in the process of preparing a comprehensive list of the equipments required for Photographic laboratory.



Dr. P.G. Ngunjiri
CHAIRMAN, ARCHITECTURE DEPT.

11

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 1

Date _____

GENERAL AREA OF UTILISATION SOUND

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENTED	SPECIFIC AREA OF UTILISATION	REMARKS	
1.	Condenser Microphones	WS-01/02/05	(page 6)	Rion Co. Ltd.		Sound Measurement		
	and components.	WS-03	Sound	Tokyo Japan	8 - sets			
	Windscreens, calibrator,	VC-27-32p	and	24-41 Higashimotomachi				
	Microphones, Adapters,	→ UA-12	Vibration	3-chome				
	Flexible rod, preamplifiers	UA-20	Measuring	Kokubunji				
	Extension cables.	NC-72	Instruments	Tokyo 185, JAPAN				
		NH-05		Tel:03-379-2352				
		EC-04C,D,E						
2.	Integrating sound	NL-01A	- ditto -	- ditto -	8	- ditto -		
	Levelmeter (to include Standard accessories)		(page 8)					
3.	Printer	CP - 01	- ditto -		4	- ditto -		
	(to include standard accessories)							
4.	Unit Connector	CC-05	- ditto -		4	- ditto -		
			(page 9)					
5.	Octave Band Filter	NX - 01A	- ditto -		4	- ditto -		
			(page 9)					

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 2

Date _____

GENERAL AREA OF UTILISATION SOUND

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER REPRESENTED	SPECIFIC AREA OF UTILISATION	REMARKS
6.	Precision Integrating Sound Level Meter (to include all accessories)	NL- 10A	page 8	Rion Co. Ltd	4	Sound Measurement	
7.	Environmental Noise Level Monitor.	NA - 33	page 12	Rion Co. Ltd	2	- ditto -	
8.	Sound level meter stands (Camera Stands)	Standard Camera Stands			8		
9.	1/3 Octave Band Analyser (to standard accessories)	SA - 59A	page 22	Rion Co. Ltd	4	- ditto -	5/1/74 ORDERED
10.	1/3 Octave Real - Time Analyser (with standard accessories)	SA - 25	page 24	Rion Co. Ltd	2		
11.	Hard Copy Unit	SC 70A SC 70 B	page 24		1	- ditto -	

BUILDING ENVIRONMENTAL SCIENCE LABORATORY

EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 3
Date _____

GENERAL AREA OF UTILISATION SOUND

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER REQUIRED	SPECIFIC AREA OF UTILISATION	REMARKS
12.	Dual Channel Level Recorder (to include Standard accessories)	LR - 04	(page 27)	Rion Co. Ltd	4	Sound measurement	1 No. REQUIRED
13.	High Speed Graphic Recorder, to include recording paper.	LR - 51	page 28	- ditto -	2	- ditto -	
14.	Random Noise Generator (White Noise Generator)	SF - 05	page 29	- ditto -	4	- ditto -	
15.	Loud Speaker (Hi-fi)	SS - 02	page 29	- ditto -	4	- ditto -	
16.	Test Signal Generator	SF - 50	page 28	- ditto -	4	- ditto -	
17.	Tapping Machine	FI - 01	page 29	- ditto -	4	- ditto -	

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 4

Date _____

GENERAL AREA OF UTILISATION SOUND

NO.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER REQUIRED	SPECIFIC AREA OF UTILISATION	REMARKS
18.	Accelerometer Extension Cables	EC - 02D (50 m)	Page 30	Rion Co. Ltd	4	Sound Measurement	
19.	Microphone Extension Cables	EC - 04D (30 m)	page 30	- ditto -	8	- ditto -	
20.	Microphone Extension Cable	EC - 40E (100 m)	page 30	- ditto -	4	- ditto -	
21.	LR - 04 Synchronization Cable	CC - 01 (2 m)	page 30	- ditto -	4	- ditto -	
22.	LR - 04 Synchronization Cable 1 channel	CC - 11 (1 m)	page 30	- ditto -	4	- ditto -	
23.	LR - 04 Synchronization Cable, 2 channel	CC - 11:1m	page 32	- ditto -		- ditto -	

BUILDING ENVIRONMENTAL SCIENCE LABORATORY

EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 5

Date _____

GENERAL AREA OF UTILISATION — SOUND —

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER ASSESS/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
24.	Audio Frequency Spectrometer.	-	-	Rion Co. Ltd	2	Sound Measurement	Catalogue not available
25.	Sound and Vibration Signal Analyzer	SA - 73		Rion Co. Ltd	1	- ditto -	
26.	Microphone Amplifier Unit	UN-SERIES		Rion Co. Ltd	4	- ditto -	
27.	Beat Frequency Oscillator	-	-	-	2	- ditto -	Catalogue not available
28.	Tape Recorders (Reel to Reel Type)	-	-	-	4	- ditto -	- ditto -
29.	Sound Amplifiers (Measuring type 75 - 100 watt)	-	-	-	4	- ditto -	- ditto -

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 6

Date _____

GENERAL AREA OF UTILISATION SOUND

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER REPRESENTED	SPECIFIC AREA OF UTILISATION	REMARKS
30	Pure Tone Oscillator	-	-	-	2	Sound Measurement	Catalogue not available
31	Transducers	-	-	-	4	- ditto -	- ditto -
32	Rotary Switches	-	-	-	30	- ditto -	- ditto -
33	Voltmeters	-	-	-	8	- ditto -	- ditto -
34	Ammeters	-	-	-	8	- ditto -	- ditto -

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 7
 Date _____

GENERAL AREA OF UTILISATION SOLAR RADIATION AND HEAT

NO.	NAME OF EQUIPMENT	MODEL NO.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PURCHASED	SPECIFIC AREA OF UTILISATION	REMARKS
35.	MS - 52 precision Pyrheliometer (to include standard accessories)	MS - 52	Sensor programme	EKO Instruments Trading Co. Ltd.	4	Solar Radiation	
36.	Shadow Band Stand	MS - 11 (S)		- ditto -	4		
37.	Sun Duration meter (to include S1 - 01910, S1-02910, and S1-03910)	MS - 91	page 17	- ditto -	4		
38.	Portable Sun Photometer with peak hold (to include standard accessories)	MS - 120	page 21	- ditto -	4		
39.	Pygeometer (LR-Radiometer)	MS - 200	page 23	- ditto -	2	Acquisition of Basic data for Designing Air Conditioning	
40.	Albedometer	MR - 21	page 25	- ditto -	2	Measurement of Reflected Radiation	
41.	Reflectometer	MR - 30	page 25	- ditto -	4		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY									
EQUIPMENT UTILISATION / REQUIREMENT									
GENERAL AREA OF UTILISATION <u>Solar Radiation and Heat</u>									
NO.	NAME OF EQUIPMENT	MODEL NO.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PURCHASED	SPECIFIC AREA OF UTILISATION	REMARKS	Sheet No. <u>8</u> Date _____	
42	Air net pyradiometer (Without Artificial Ventilation System)	CN - 40	Meteorological Instruments	EKO Instruments Trading Compay Ltd.	4	<i>Solar Radiation</i>			
43	Pyradiometer,	CN - 11A	- ditto - page 27	- ditto -	4				
44	Water Temperature Measuring Sensors,	MT - 0105	- ditto - page 29	- ditto -	10				
45	Air Temperature Measuring Sensor,	MT 010	- ditto - page 29	- ditto -	8				
46	Aspirated Radiation Shield Thermometer,	MT - 0205	- ditto - page 29	- ditto -	8				
47	Aspirated Radiation Shield Wet and Dry Thermometer,	MH - 020 W (2 pc double)	- ditto - page 30	- ditto	8				
48	Temperature Converter,	MI-060	- ditto - page 30	- ditto -	8				

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 9
 Date _____

GENERAL AREA OF UTILISATION

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PURCHASED	SPECIFIC AREA OF UTILISATION	REMARKS
49	Temperature Converter.	MI-070M	Meteorological Instrument Page 30	EKO INSTRUMENT'S TRADING CO. LTD	8		
50	Hydrometer and Converter.	MH-0105 MI-070H	- ditto - Page 31	- ditto -	4		
51	Dew Point Thermometer and Converter.	MH-030 MI-070D	- ditto - page 31	- ditto -	2		
52	Tipping Bucket Rain Gauge and Converter.	MW - 010 MI - 020	- ditto - - ditto -	- ditto -	4		
53	Barometer and Converter.	MY - 010 MI - 030	- ditto -	- ditto -	2		
54	Wind Speed and Direction Transmitter.	MA - 050 MI - 080P	- ditto - - ditto -	- ditto -	4 4		
55	Electrical Digital Printing Integrator (3 channels).	MP - 070	- ditto - page 39	- ditto -	4		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY									
EQUIPMENT UTILISATION / REQUIREMENT									
GENERAL AREA OF UTILISATION					CLIMATE				
No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER OF CHANNELS REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS	Sheet No. 10	Date
56.	Multiplex Data Logger Solac logger solac .	MP - 080	Meteorological Instruments page 41	EKO Instruments Trading Co. Ltd.	3	(32 Channels)			
57.	Multiplex Data Logger III.	MP - 080	- ditto - page 45	- ditto -	2				
58.	Analog Integrator.	MP - 20	- ditto -	- ditto -	4				
59.	Heat Flow Indicator AC/DC Operation.	MI - 120	- ditto - page 57	- ditto -	4				
60.	Copper - Constantan Thermal Couple Wires								
	Gauge 14 -----				20 rolls				
	Gauge 20 -----				20 rolls				4 ROLL ORDERED
61.	Iron-Constantan Thermal Couple Wires								
	Gauge 8 -----				20 rolls				
	Gauge 14 -----				20 rolls				
62.	Chromel - Alumel Thermal Couple								
	Gauge 8 -----				20 rolls				
					20 rolls				1 ROLL ORDERED

BUILDING ENVIRONMENTAL SCIENCE LABORATORY

EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 11

Date

GENERAL AREA OF UTILISATION *ATMOSPHERIC STABILITY MEASURING SYSTEM - MODEL MC-10*

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
63.	Neo Pyronometer.	NP - 42	Systems Pg. 65, 66	EKO Instruments (JAPAN)	3 SETS		
64.	UV Pyranometer.	MS - 140	page 65	- ditto -	1 SET		
65.	Net Pyradiometer.	CN - 11	page 65	- ditto -	1 SET		
66.	Electronic Self Balancing Recorder.	MP - 10	Page 65	- ditto -	1 SET		
67.	Atmospheric Stability Converter.	MC - 10A	page 65	- ditto -	1 SET		
68.	Analogue Integrator (total 11 channels).	MP - 20	page 65	- ditto -	2 SETS		
69.	Standard Accessories.		page 65	- ditto -	3 SETS		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 12
Date

GENERAL AREA OF UTILISATION SOLAR COLLECTOR EFFICIENCY TESTING SYSTEM

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
70	Polymer Hygrometer.	MH - 070P	Systems page 69	EKO Instruments	4		
71.	Flow Meter (Flow Amount),	Refer Catalogue		- ditto	6		
72.	Watt Integrator.	Refer Catalogue					
73.	Humidity Converter.	MI - 070P		- ditto -	4		
74	Standard Accessories				4 SETS		
75	Solar Collectors :						
	- (Toshiba)				6 SETS		
	- (Others)				6 SETS		
76.	Pressure Gauge (Water Type).			- ditto -	4		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 13
 Date _____

GENERAL AREA OF UTILISATION SOLAR RADIATION AND HEAT MEASUREMENT

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
77.	Water Mixing Device,	-	-	-	4		
78.	Differential Pressure Measuring Device,				4		
79.	Expansion Tanks,	-	-	-	4		
80.	Heat Exchange,	-	-	-	4		
81.	Water Pressure Gauges,				8		
82.	Thermocouple, Thermometer (Range 0° - 200°C),	NO.03708 YEW 2671		Yokogawa Electrical Works	4		
83.	Surface Thermometer Range 300 ° - 500 °	TYPE 2677 Class 2.0		- ditto -	4		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 14

Date _____

GENERAL AREA OF UTILISATION - HEAT MEASUREMENT

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PURCH/REG'D	SPECIFIC AREA OF UTILISATION	REMARKS
84	Ice Cube Maker (Hoshizaki Cube Star)			Mitamura Riken Nogyo Japan	2		
85	Centrifugal Pumps (Small size)			- ditto -	4		
86	Water Bath with Temperature Controls				4		
87	Precision water Bath	Serial 904	13-50	Mitamura Riken Nogyo Japan	2		
88	Air Conditioner Daikin	FV 2KA Indoor Unit			2		
89	Thermo Hygograph, Movement - 7 days Range - 15°C - 40°C	30-421-00		KANEKO SCIENTIFIC JAPAN	8		
90	Globe Thermometer with Nomogram and Copper sphere (Dia. 100mm)				8		Serial 612 (X, Y, Z)

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 15
 Date _____

GENERAL AREA OF UTILISATION HEAT MEASUREMENT

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
91	Bead Thermometer.	-	-	-	8		
92	Kata Thermometer.	-	-	-	8		3-- SA NEGATED.
93	Environment Test Kit (Complete Set)	2006	E615	KANOMAX JAPAN	4		4 No EXPLORED.
94	Computing Data Logger	TR2731/2741	-	Advantest Corporation.	4		
95	Anemometer and carrying case. Set Model 0246	6151	-	Kanomax Instruments	2		
96	Digital Multi-Thermometer	TR2114/2114H	Advantest	Advantest formely Takeda Ruken Co.Ltd.	6		
97	Hot wire repair Kit	1120		Kanomax Instrumentation	4		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 17

Date _____

GENERAL AREA OF UTILISATION LIGHT LIGHT MEASUREMENT

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESHT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
103	Grays light box with polar curve apparatus	-	-	-	4		
106	BRS Sky components protractors				5 SET (8)		
107	Indoor photocells	-	-	-	4		
108	Outside directional Photocell	-	-	-	4		
109	Polar Curve Apparatus	-	-	-	4		
110	Artificial Sun				1		
111	Tracking system for Artificial Sun (Computerised)				1		

BUILDING ENVIRONMENTAL SCIENCE LABORATORY									
EQUIPMENT UTILISATION / REQUIREMENT									
GENERAL									
GENERAL AREA OF UTILISATION					GENERAL				
No.	NAME OF EQUIPMENT	MODEL NO.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS		
112	Omni Directional Speaker	B & K			2	Acoustics			
113	Tripods (Heavy Duty)	Any Model			4	General			
114	Tripods (Light Duty)	Any Model			8	General			
115	Precision Sound Level Meter					Acoustics			
116	Precision Impulse Sound Level Meter	NA 61		Rion Co. Ltd	2	Acoustics			
117	Precision Measuring Level Meter	NA 80		Rion Co. Ltd	2	Acoustics			
118	Cassette Recorders				4	Acoustics			

Sheet No. 18
Date

BUILDING ENVIRONMENTAL SCIENCE LABORATORY
EQUIPMENT UTILISATION / REQUIREMENT

Sheet No. 19

Date _____

GENERAL

No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
119	Statistical Distribution Analyser			Rion Co. Ltd	1	Acoustic	
120	Enviro mental Noise Level Analysers	SV 73		Rion Co. Ltd	1	- ditto -	
121	Enviro mental Noise level Analyser	SV 74		- ditto -	1	- ditto -	
122	1/1, 1/3 Octave Band Real-time Analyser			- ditto -		- ditto -	
123	Illuminance Mini Lux Meter			Yokogawa	3	Light	
124	Luminance Meters (Hegner Meter)				4	- ditto -	
125	Megatron Daylight Photometer				4	- ditto -	

BUILDING ENVIRONMENTAL SCIENCE LABORATORY							
EQUIPMENT UTILISATION / REQUIREMENT							
GENERAL							
GENERAL AREA OF UTILISATION			GENERAL				
No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PRESENT/REQ'D	SPECIFIC AREA OF UTILISATION	REMARKS
126	Heliodon				2	Light	
127	Moving Artificial Sun				2	- ditto -	
128	Lamps: Tungsten				20		
	Helogen Filament				20	- ditto -	
	High pressure mercury Discharge				20	- ditto -	
	Low Pressure Mercury Discharge (Flourescent)				20		
129	Lamps: High Pressure Sodium Discharge				20		
	Lamp Fittings				20	- ditto -	
	Dimmer Switches				20	- ditto -	
130	Solarscope				2	- ditto -	
131	Medium size band saw				one	Preparatory Work	
132	A Portable Circular Saw				one	- ditto -	

Sheet No. 20
Date _____

BUILDING ENVIRONMENTAL SCIENCE LABORATORY									
EQUIPMENT UTILISATION / REQUIREMENT									
GENERAL									
GENERAL AREA OF UTILISATION									
No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER PURCHASED	SPECIFIC AREA OF UTILISATION	REMARKS		
133	Small size mortising machine (wood)				1	Preparatory work			
134	Prefabricated sound proof booth (12 m ²)			Ricon Co. Ltd	1	Acoustics			
135	Comonay Anechoic Booth (12m ²)			Ricon Co. Ltd	1	Acoustics			
136	Wind Tunnel Room		Facility		1	Air Flow Study			
137	Wind Tunnel Equipment - for Architectural Purpose			Kanomax Instrumentation	1	Air Flow Study			
138	Dark Room	7m ²	Facility			Light			
139	Artificial Sun Room	14m ²	Facility			Light			

Sheet No. 21

Date _____

BUILDING ENVIRONMENTAL SCIENCE LABORATORY									
EQUIPMENT UTILISATION / REQUIREMENT									
GENERAL AREA OF UTILISATION					GENERAL				
No.	NAME OF EQUIPMENT	MODEL No.	CATALOGUE REFERENCE	NAME OF MANUFACTURER	NUMBER OF EQUIPMENT REQUIRED	SPECIFIC AREA OF UTILISATION	REMARKS		
140	Artificial Sky Room	10m ²	Facility			Light			
141	Lamps Room	14m ²	Facility			Light			
142	Small Ice Cube Crushers	-	-	-	10	Crushing Ice Cubes			

Sheet No. 22
Date _____

Contents	PAGE
1. Staff List	
1.1 Academic staff under University Council	1
1.2 Technical Staff under University Council	2
2. Staff Recruitment Plan	
2.1 Academic staff	3
2.2 Technical staff	4
3. Staff Development Plan Using Japanese Fund	
3.1 Staff of University Council	5
4. Academic Activities	
4.1 Research policy	6
4.2 List of academic activities (from April 1990 to December 1991)	7
4.3 List of current research programmes (from April 1991 to December 1991)	8
4.4 Area of research interested by staff	8

1. STAFF LIST OF MECHANICAL ENGINEERING DEPARTMENT

Page: 1

1.1 Academic Staff under University Council

As of December, 1991

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B. Sc. *	Remarks Required for
1	Prof. S.M. Maranga	41 yrs	BSc., MSc., PhD., R. Eng., MIBK, MIDE	Associate Professor	Production Engineering/Industrial Eng.	Production	
2	Dr. L.M. Mwanu	36 yrs	BSc., MSc., PhD., R. Eng., MIBK	Senior Lecturer	Solid & Structural Mechanics	Strength of Materials	
3	Mr. S.P. Ng'ang'a	35 yrs	BSc., MSc.,	Lecturer	Material Science	Material Science	
4	Mr. I.M. Waire	32 yrs	B. Eng. MSc. H. Dip	Lecturer	Control & Measurements	Control Eng./Measurements	
5	Mr. G.M. Kyove	39 yrs	BSc., MSc.,	Lecturer	Fluid Mechanics/Hydraulics	Fluid Mechanics	
6	Mr. C.E.M. Muthira	40 yrs	MSc.	Lecturer	Thermodynamics	Thermodynamics	
7	Mr. S.K. Ngugi	36 yrs	MSc.	Lecturer	International Combustion Eng(L.I.P.I)	Thermodynamics	
8	Mr. C.M.M. Ondfield	39 yrs	MSc.	Lecturer	Applied Mechanics	Applied Mechanics Eng. Degn.	
9	Mr. P.M. Magcha	38 yrs	MSc.	Lecturer	Thermodynamics/Computer Science	Applied Mechanics Eng. Degn.	
10	Mr. J.N. Ng'ang'a	43 yrs	Dip. Eng. FT.	Principal Lecturer (TSC)	Machine Shop Technology	None	
11	Mr. G.M. Manjau	Over 40 yrs	HND	Senior Lecturer (TSC)	Thermodynamics Power Plant Technology	None	
12	Mr. S. Mugo	38 yrs	Tech. Part II	Lecturer (TSC)	Motor Vehicle Technology	None	
13	Mr. J.G. Kigila	39 yrs	Tech. Part III	Lecturer (TSC)	Motor Vehicle Technology	None	
14	Mr. J.M. Gachaki	39 yrs	Tech. Part III, Tech. ED	Lecturer (TSC)	Drawing	None	
15	Mr. G.M. Thoigu	39 yrs	Tech. Part III, FTC, Dip Tech. ED	Lecturer (TSC)	Welding Machine Shop Technology	None	
16	Mr. I.M. Wainaina	39 yrs	Tech. Part III, Tech. ED Dip	Lecturer (TSC)	Motor Vehicle Technology	None	
17	Mr. H.M. Marui	-	HND	Lecturer (TSC)	Fluid Dynamics	None	on Study Leave
18	Mr. G.G. Kung'u	40 yrs	HND Part I	Asst. Lecturer (TSC)	Welding Machine Shop Technology	None	
19	Mr. T.K. Magira	33 yrs	MET III	Asst. Lecturer (TSC)	Plant Engineering	None	
20	Mr. E.N. Kivuti	45 yrs	MET III, FTC	Asst. Lecturer (TSC)	Drawing	None	
21	Mr. G.G. Mnyoyike	-	HND	Asst. Lecturer (TSC)	Control Systems	None	On Study Leave
22.	Mr. S. Wanji	-	HND	Asst. Lecturer (TSC)	Thermodynamics	None	On Study Leave

1. 2 Technical Staff under University Council MECHANICAL ENGINEERING DEPARTMENT

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	Mr. H. Mwangi	43 yrs	B. Eng. Mech. & Ind. Organization & Mgmt. Dip. Mech. & Elect. Eng.	Technician	Materials Science	
2	Mr. A.O. Magoi	38 yrs	M/T Part II	Technician	Motor Vehicle Shop	
3	Mr. S.N. Mbugua	33 yrs	CPT Part III	Technician	Construction Plant	
4	Mr. D.M. Waweru	35 yrs	MET Part III, Mechanics of Materials	Technician	Mechanical Science	
5	Mr. K. Ndungu	30 yrs	M/T Part III, Mechanical Eng.	Technician	Machine-Shop	
6	Mr. J.C. Owino	32 yrs	Fab & Welding Tech. Part III	Technician	Welding & Fabrication	
7	Mr. S.W. Ngocho	36 yrs	Fab & Welding Grade I, Teaching Methodology General Eng.	Technician	Welding & Fab.	
8	Mr. J.C. Sisa	34 yrs	MET Part II	Junior Technician	Machine-Shop	
9	Mr. S. Maina	31 yrs	M/T Part II, Mechanics Grade I	Junior Technician	Motor Vehicle Shop	
10	Mr. A.M. Waweru	24 yrs	Mechanics Grade II	Junior Technician	Motor Vehicle Shop	
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2. STAFF RECRUITMENT PLAN OF MECHANICAL ENGINEERING DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1981/82	1982/83	1983/84	1984/85	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Professors	Mechanics of Machines/Vibrations Thermodynamics/Fluid Mechanics/Design/Production	1	-	-	-	1	Difficult
2.	Associate Professors	Thermodynamics Design	1	-	1	-	1	Easy Difficult
3.	Senior Lecturers	Material Science Design/Mechanics of Machines	1	-	-	-	1	Difficult
4.	Senior Lecturers	Fluid Mechanics Machine tool/Production Eng.	-	1	-	-	1	Difficult
5.	Lecturers	Control & Systems Eng. Solid Mechanics	-	1	1	-	1	Difficult
6.	Lecturers	Motor Vehicle Technology/Vehicle Dynamics Technical Drawing/Design	1	-	-	-	1	Difficult
7.	Lecturers	Production (Machining & Metal Forming) Motor Vehicle (Heavy Construction)	1	-	-	-	1	Difficult
8.	Lecturers	Metrology/Measurements Fluid Dynamics	1	-	-	-	1	Difficult
9.	Lecturers	Design Engine Technology	-	1	-	1	2	Difficult
10.	Lecturers	Industrial Engineering Management Computer Engineering CAD/CAM	-	1	-	-	1	Difficult
11.	Assistant Lecturers	Design & Drawing (1): Production (Machining) (1) CAD/CAM & Computer Systems (1)	3	-	-	-	3	Difficult
12.	Teaching Assistants	Applied Mechanics (1) Motor Vehicle Technology (1) Fluid Mechanics (1) Industrial Engineering (1)	4	-	-	-	4	Difficult
TOTAL			17	7	2	3	29	

2. 2 Technical Staff MECHANICAL ENGINEERING DEPARTMENT

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Chief Technician	Co-ordinate activities of technical staff	1	-	-	-	1	Possible
2.	Senior Technicians	Thermodynamics Solid & Structural Mechanics/Machine Shop	1 1	- -	- -	- -	1 1	Possible
3.	Senior Technicians	Fluid Mechanics/Materials Motor Vehicle/Control/Mechanics of Machines	1 1	- -	1 1	- -	2 2	Possible Not Easy
4.	Senior Technicians	Mechanical Science & Metrology Lab Welding & Fabrication	- -	1 1	- -	- -	1 1	Possible
5.	Senior Technicians	Sheet Metal Shop Construction Plant	- -	1 1	- -	- -	1 1	Possible
6.	Technicians	Machine Shop Sheet Metal & Fitting Shop	- -	1 1	- -	1 -	2 1	Possible
7.	Technicians	Instrumentation & Measurements Materials Science Lab	- -	1 1	- -	- -	1 1	Possible
8.	Technicians	Blacksmith & Foundry Electrical & Electronic Installation & Repair	- -	1 1	- -	- -	1 1	Possible
9.	Technicians	Store Keeping (Machine Shop & Motor Vehicle Shop) Draughtsman	- -	2 1	- -	- -	2 1	Possible
10.	Junior Technicians	Fitting & Sheet Metal (Trainee) Blacksmith & foundry (Trainee)	- -	- -	1 1	- -	1 1	Possible
11.	Junior Technicians	Machine Shop Machining & Metal Forming (Trainee)	- -	- -	1 1	- -	1 1	Possible
12.	Junior Technicians	Construction Plant (Trainee) Motor Vehicle Shop (Trainee)	- -	- -	- -	1 1	1 1	Possible
TOTAL			5	13	5	4	27	

3. STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF MECHANICAL ENGINEERING DEPARTMENT (DRAFT)

3.1 University College Council Staff

Period of JICA Technical Cooperation

No	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED
			1990	1991	1992	1993	1994	
1	P.W. Mwachira (MSc.)	Thermodynamics						PHD in Germany/Europe
2	C.E. Mwachira (MSc.)	Thermodynamics						PHD in UK/Commonwealth/Japan
3	S.K. Ngunjiri (MSc.)	Thermodynamics						PHD in Japan
4	C.M. Odhiambo (MSc.)	Applied Mechanics Production						PHD in Local/External Supervision
5	G.M. Kyoye (BSc., MSc.)	Fluid Mechanics						PHD in Third Country Programme/Japan
6	I.M. Waire (BSc., MSc.)	Control						PHD in Japan
7	S.P. Ngunjiri (BSc., MSc.)	Materials Science						PHD in UK/Commonwealth 3rd World Country
8	H.M. Marui (HND)	Fluid Dynamics						MSc. in Japan (back in 1992/93)
9	G.G. Mwangi (HND)	Control Systems						MSc. in Japan (back in 1992/93)
10	H. Mwangi (HND)	Stress Analysis						JICA C/P in Japan (back in August, 1992)
11	D.M. Mwangi (Tech. Part III)	Mechanics & Materials						HND (Kenya Polytechnic)
12	A.O. Mwangi (Tech. Part II)	Motor Vehicle Technology						HND (Kenya Polytechnic)
13	S. Mwangi	Thermodynamic						
14								
15								
16								
17								
18								
19								
20								

4.1 RESEARCH POLICY

<p><u>1. Objectives</u></p> <p>Broadly;</p> <p>(i) To develop technologies for ready adoption by the small industries and other rural based industries.</p> <p>(ii) To engage in research to improve the product and operation in the small scale industries.</p> <p>(iii) To develop the faculty staff capability in research and where applicable form the basis of the degree award.</p> <p>(iv) To eventually engage in advanced research for the development of industry as well as well as new knowledge in the forefront of technology. Thus enable the country's industry to catch up with the latest techniques.</p> <p>(v) To disseminate technological information for the benefit of industry.</p> <p><u>2. Areas of Priority</u></p> <p>(i) Efficient energy utilization and development of alternative source of energy.</p> <p>(ii) Design and creativity development.</p> <p>(iii) Manufacturing.</p> <p>(iv) Materials Science</p> <p><u>3. Strategies</u></p> <p>Development energy utilization and development of alternative source of energy.</p> <p>(i) Staff research projects</p> <p>(ii) Postgraduate projects</p> <p>(iii) Undergraduate student projects</p> <p>(iv) Consultancy projects</p> <p>(v) Exchange programs</p> <p>(vi) Seminars</p>	<p><u>4. Possible research to be undertaken</u></p> <p>Examples:</p> <p>(i) Improvement of the performance of the operating characteristic of wind turbine.</p> <p>(ii) Feasibility of a technological transfer centre of JRCOAT.</p> <p>(iii) Seminar on University Industry co-operation</p> <ul style="list-style-type: none"> - Seminar on creativity and entrepreneurial engineering - Short courses for engineering Graduates and Engineers. - Workshop on pollution control in motor vehicles. - Workshop on Engineering Education. <p>(iv) Design of equipment for bar and tubes drawing for research on polygonal drawing.</p> <p>(v) Improvement of charcoal gas engine: use for agricultural stationary power source</p> <p><u>5. Requirements for the implementation</u></p> <p>(i) Research Funds</p> <p>(ii) Recruitment of more academic staff</p>
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4. 2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at:	DATE
1.	C.M. Ondieki, S.K. Ngugi & P. Inoue	Improvement of charcoal gas engine: use for agricultural stationary power source	Not Published	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
	SEMINAR			
1.				
2.				
3.				
4.				
5.				

4. C LIST OF CURRENT RESEARCH PROGRAMMES

From April, 1980 up to December, 1980

Sl. No.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	Professor S.M. Maranga	Design of equipment for bar and tubes drawing for research on polygonal drawing	Not Published	J.K.U.C.A.T
2.	P.W. Magoha	Improvement of the performance of the wind turbine	Not Published	J.K.U.C.A.T
3.				
4.				
5.				

4.4 Area of Research Interested By Staff.

1. Prof. S.M. Maranga
 2. Dr. L.M. Masu
 3. P.W. Magoha
 4. C.E.M. Muchira
 5. S.K. Ngugi
 6. G.M. Kywe
 7. G.M. Ondieki
 8. J.M. Waire
 9. S.P. Ngunjiri
1. Metal Forming/Production Engineering 2. Traditional Metal Working
 1. Stress Analysis 2. Fracture Mechanics (Fatigue Crack Growth) 3. Fatigue Strength of High Pressure Vessels
 4. Strength of Materials and Solid Mechanics
 1. Thermodynamics 2. Computer Science
 Thermodynamics
 Thermodynamics
 Fluid Mechanics and Hydraulics
 Applied Mechanics
 Control & Instrumentation
 Material Science & Metallurgy

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As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc. *	Remarks Required for
1	M.S. Mbozho	23/3/'49	M.Sc (M.Sc. U.S.S.R 1981)	S.L.	Power System, Electrical Machine	Electrical Machines Power Systems	
2	Dr.S.Kangethe	29/9/'54	Ph.D (U.K. 1989 M.Sc. Nairobi 1981 B.Ed. Nairobi 1978)	S.L.	Power Electronics Control System Theory and Appl.	Control Engineering Electrical Measurements	
3	P.K.Hinga	15/6/'53	M.Sc. (M.Sc. U.K. 1985)	L.	Power Electronics, Machine Control	Circuit Theory Control Engineering	
4	D.Ogaba	3/7/'52	M.Sc. (B.Sc. Uganda 1977) (M.Sc. U.K. 1980)	L.	Power Electronics	Analogue Electronics Circuit Theory	
5	D.Omingo		B.Ed 1979 P.G.Dip. 1983 (Post Graduate Diploma)	L.	Digital Electronics Physical Electronics	Digital Electronics Physical Electronics	
6	J.K.Riitho	6/7/'49	M.Sc (M.Sc. U.K. 1989) (P.G.Dip U.K. 1981)	L.	Electrical Machines & Power Systems	Power Systems Electrical Machines	
7	L.M.Ngoo		M.Sc. (on study leave)	L.	Control Engineering	Control Engineering Electrical Measurements	Canada
8	D.O.Konditi	22/7/'50	M.Sc (HND Mombasa 1983) (M.Sc. Japan 1991)	L. (TSC)	Electromagnetism Telecommunication	Electromagnetics Electrical Measurements	Tottori univ
9	V.Magotha (Mrs)	22/2/'56	M.Sc (M.Sc. U.S.S.R 1980)	A.L.	Electronics	Physical Electronics	
10	P.O.Anangi	9/8/'56	M.Sc. (M.Sc.)	A.L.	Electrical Machines	Electrical Machines Power Systems	
11	E.N.Ndungu	27/10/'57	M.Sc. (M.Sc. Japan 1990)	A.L.	Electrical Filters	Electrical Filters Digital Electronics	Tottori univ
12	F.Nyongesa	1/8/'58	M.Sc. (M.Sc. U.K. 1990) (B.Sc. Nairobi 1983)	A.L.	Telecommunication	Transmission Lines Television, Microwaves	
13	M.O.Kebasso	2/2/'60	M.Sc. (B.Sc. Nairobi 1983) (M.Sc. U.K. 1989)	A.L.	Communication System Semiconductor	Signal & Communication Microprocessor	
14	P.K.Kihato	'59	HND (on study leave) M.Sc. to be accepted by 1992	A.L.	Power Electronics Electrical Machines	Power Electronics Machine Drives	Tottori univ
15	F.Mumba	'66	B.Tec. (on study leave)	G.A.	Computer Engineering Digital Electronics	Digital Electronics Computer Programming	Enime univ.

1. 2 Technical Staff under University Council

Page: 2

As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	J.N. Gachoki 1/ 5/ '50	41	Technician Part III (1984)	Technician	Telecommunication	
2	J.M. Wwangi 2/12/ '49	42	Technician Part III (1991)	Technician	Electrical Engineering	JICA C/P to be accepted FEB. 1992
3	G. Kibunja 30/10/ '52	39	Technician Part III (1984)	Technician	Digital Communication	
4	J.M. Kini 28/ 3/ '54	37	Technician Part II (1982)	Technician	Electrical Power System, Control	
5	A.M. Githaiga 15/ 8/ '59	32	Technician Part II (1983)	Technician	Electronics	
5	J.M. Mithi 5/ 3/ '61	30	Technician Part III (1985)	Technician	Radio and Television	
7	P.N. Waruhari 20/ 8/ '65	26	Technician Part III (198)	Technician	Radio and T. V., Microcomputer	
8	M.W. Wanjau 16/ 7/ '68	23	Technician Part III (198)	Technician	Radio and Telecommunication	
9	H. Osieli 16/ 4/ '66	25	Technician Part III (198)	Technician	High Voltage Technology	JICA C/P Tottori Univ.
10						
11						
12						
13						
14						

2. STAFF RECRUITMENT PLAN OF ELECTRICAL AND ELECTRONIC DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF AVAILABILITY
1.	Professor	Electrical or Electronics	1				1	Difficult/Possible
2.	Professor	Electrical or Electronics			1		1	Difficult/Possible
3.	Ass. Professor	Electrical		1		1	2	Difficult
4.	Ass. Professor	Electronics	1		1		2	Difficult
5.	Senior Lecturer	Electrical	1	1			2	Difficult
6.	Senior Lecture	Electronics	1		1	1	3	Difficult
7.	Lecturer	Electrical		2	2	1	5	Difficult
8.	Lecturer	Electronics		2	2	1	5	Difficult
9.	Ass. Lecturer	Electrical		1	1	1	3	Possible
10.	Ass. Lecturer	Electronics		1	1	1	3	Possible
11.	Teaching Assistant	Electrical	2	2	2	1	7	Possible
12.	Teaching Assistant	Electronics	1	2	2	1	6	Possible
TOTAL			7	12	13	8	40	

2. 2 Technical Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF AVAILABILITY
1.	Technician	Electrical (High-voltage)	1				1	Possible
2.	Technician	Electrical (Electrical Machines)		1			1	Possible
3.	Technician	Electrical (Fundamental Measurement)			1		1	Possible
4.	Technician	Electrical (Installation)				1	1	Possible
5.	Technician	Electrical (Power Electronics)	1				1	Possible
6.	Technician	Electronics (Communication)		1			1	Possible
7.	Technician	Electronics (Illumination)			1		1	Possible
8.	Technician	Electronics (Microprocessor)				1	1	Possible
9.	Technician	Electronics (Electronics)		1			1	Possible
10.						1	1	Possible
11.								
12.								
TOTAL			2	3	3	2	10	

3. STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF ELECTRICAL AND ELECTRONICS DEPARTMENT [DRAFT]

3.1 University College Council Staff

No	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED
			1990	1991	1992	1993	1994	
1	P.K.Kihato	Power Electronics	■	■	■	■	■	M.Sc. (Tottori Univ.)
2	F.Mumba	Computer Engineering		■	■	■	■	PhD. (Ehime Univ.)
3	A	Electrical Machines		■	■	■	■	PhD. (Exchange Prog./JICA C/P)
4	B	Control & Measurement		■	■	■	■	Post PhD. (EXCHANGE PROGRAM)
5	C	Power Electronics		■	■	■	■	PhD. (JICA C/P)
6	D	Electronic Circuit		■	■	■	■	M.Sc. (EXCHANGE PROGRAM)
7	E	Digital Electronic		■	■	■	■	PhD. (EXCHANGE PROGRAM)
8	F	Electrical Power System		■	■	■	■	PhD. (EXCHANGE PROGRAM)
9	G	Electromagnetics		■	■	■	■	PhD. (EXCHANGE PROG/3rd COUNTRY)
10	H	Physical Electronics		■	■	■	■	PhD. (JICA C/P)
11	I	Electrical Machines		■	■	■	■	PhD. (EXCHANGE PROGRAM)
12	J	Electrical Filters		■	■	■	■	PhD. (3 rd COUNTRY)
13	K	Telecommunications		■	■	■	■	PhD. (EXCHANGE PROGRAM)
14	L	Semiconductor		■	■	■	■	M.Sc.,PhD. JAPANESE GOVERNMENT SCH.
15	L.N.Ngou	Control System		■	■	■	■	PhD. (CANADA)
16	H.Osieli	High-Voltage		■	■	■	■	Technician JICA C/P
17	J.M.Mwangi	High-Voltage		■	■	■	■	Technician JICA C/P
18	O	Electronics		■	■	■	■	Technician JICA C/P
19	P	Electronics		■	■	■	■	Technician JICA C/P
20	Q	Electrical		■	■	■	■	Technician JICA C/P

<p><u>1. Objectives</u></p> <p>1.1 To give members of staff and students an opportunity to broaden their experience through practical work assignments or advanced studies.</p> <p>1.2 To build scientific competence of the department and its staff in order to solve national problems.</p> <p>1.3 To stimulate scientific and technical research by developing closer links with local industries, government institutions etc.</p> <p>1.4 To design research activities that will enhance skills of entrepreneurs in a range of technical endeavours that will create employment opportunities.</p> <p><u>2. Areas of Priority</u></p> <p>2.1 Development of appropriate technology</p> <p>2.2 Energy studies</p> <p>2.3 Environmental protection</p> <p>2.4 Semiconductor development</p> <p>2.5 Industrial process control</p> <p>2.6 Superconductor studies</p> <p><u>3. Strategies</u></p> <p>3.1 Funding</p> <p>3.1.1 JKUCAT research funds</p> <p>3.1.2 National council of science and technology funds</p> <p>3.1.3 Private sector funds</p> <p>3.1.4 JICA, UNDP, UNESCO, ILO etc. research funds</p>	<p>3.2 Selection</p> <p>3.2.1 The research committee shall receive and evaluate research proposals</p> <p>3.2.2 The research committee shall be responsible for providing the necessary material requirements and assessing progress reports.</p> <p>3.2.3 The research committee shall approve the proposed budgets.</p> <p><u>4. Possible research to be undertaken</u></p> <p>4.1 As shown in page 9</p> <p><u>5. Requirements for the implementation</u></p> <p>5.1 Laboratories for modelling and testing</p> <p>5.2 Equipments, apparatus and materials</p> <p>5.3 Transport facilities</p> <p>5.4 Computers, software and laser printers</p> <p>5.5 Finance for seminars, workshops and conferences</p> <p>5.6 Acquisition of Journals e.g. IEE, IEEE etc.</p>
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4.2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
RESEARCH ACTIVITIES				
1.				
2.				
SEMINAR				
1.	Mr. S. M. MBOGHO	The Roll of Telecommunications in Economic Development	TECHNOLOGICAL SOLUTIONS FOR ECONOMIC DEVELOPMENT IN KENYA Nairobi at JKUAT	14-15th Mar. '91
2.	Mr. S. M. MBOGHO	Reflections on The Current Trends in Telecommunication	---- DITTO --	
3.	Dr. S. M. KANG' ETHE	Detection of Faults in Dynamic System	---- DITTO --	
4.	Mr. F. C. NYONGESA	Engineering Method in Economic Development	---- DITTO --	
5.	Mr. D. O. KONDITI	Magnetic Properties of Bent Amorphous Ribbons	A Conference on Electromagnetism and Electrical Circuit at JKUAT	7th August 1991
6.	Mr. E. N. NDUNGU	Realization of Floating Inductance Using Three Operational Transconductance Amplifiers	A Conference on Electromagnetism and Electrical Circuit at JKUAT	7th August 1991

4.3 LIST OF CURRENT RESEARCH PROGRAMMES

From April, 1991 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.				
2.				
3.				
4.				
5.				

NO.	FIELD	MAIN TITLE (Long Term Research)	NAME	SUB TITLE
1	SEMICONDUCTOR	A study of metal/semiconductor Contacts	V. Magoha D. O. Konditi M. O. Kebasso D. Omingo Y. Iwami	Simulation for degradation of GaAs Schottky contacts due to metal deposition
2	PROCESS CONTROL	Industrial process control	W. S. Mbagho O. Ogaba S. M. Kangethe P. K. Hinga	
3	ELECTROMAGNETIC	Study of magnetic properties of amorphous ribbons	D. O. Konditi D. Omingo Y. Iwami	
4	ELECTRICAL FILTERS	Synthesis of biquad transfer functions	E. W. Ndungu F. Nyongesa S. M. Kangethe	

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4.4 Area of research interested by staff	10

1. STAFF LIST OF MATHEMATICS & COMPUTER SCIENCE DEPARTMENT

Page:

1.1 Academic Staff under University Council

As of

No.	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc. *	Remarks Required for
1	STOWER, DR. GEORGE X.	43	BSc(Dar), MSc(City U.K.), Ph.D (Essex, U.K.)	Senior Lecturer Chairman	Fluid Mechanics Statistics	Applied Maths, Computer Science	
2	HUMPHREYS, HENRY M.	50	MA(St. Andrews), Dip.Ed(Glasgow), MSc (Strathclyde)	Lecturer		Probability & Statistics General Mathematics	
3	KINYANJUI, MATHEW	29	BEd Science(KU) MSc. Maths(KU)	Assistant Lecturer	Applied Mathematics	Linear Algebra, ordinary Differential Equations, Complex Analysis	
4	MACHARIA, JIMMY N.	31	BEd, Science(KU), MSc, Maths(KU) PG Dip. Comp. Science(U.O.N)	Assistant Lecturer	Applied Mathematics, Computer Science	Numerical Analysis, Calculus, Computer Science	
5	NAKAMBI, KEPHER M.	28	BEd, Science(KU), MSc, Statistic(KU)	Assistant Lecturer	Statistics	Probability & Statistics	
6	KANYUGI, MIRIAM W	40	BEd, Science (Exeter)	Lecturer (TSC)	Diploma, Maths & Statistics		
7	GATHARIA, LOISE W.	27	BEd, Science (KU), PG Diploma Computer Science (U.O.N.)	Teaching Assistant	Computer Science	Computer Science	
8	OMURUNDO, JOHN KWENDO	32	BEd, Science (KU), MSc, Population Statistics, (U.O.N.)	Assistant Lecturer	Statistics	Prob. & Statistics/ Calculus	shortly to join Maseno
9	WALI, AUGUSTUS N.	28	BEd, Science(KU), MSc (Maths)KU	Assistant Lecturer	Topology	Real & Complex Analysis Topology	
10	MUCHINA, MOSES NJOROGE	32	BEd, Science(U.O.N), MSc(Statistics), McGill University	Assistant Lecturer	Statistics	Probability & Statistics	On study leave
11	WEKESA, JOHN M.	35	BEd, Science(U.O.N), MSc (awaiting award from U.O.N)	Teaching Assistant	Applied Statistics	Probability & Statistics	MSC thesis submitted
12	GATHITU, GEORGE M.	40	BEd, Science U.O.N	Teaching Assistant	Applied Mathematics	Applied Mathematics	On study leave
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14							
15							
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17							
18							
19							
20							
21							

1. 2 Technical Staff under University Council MATHEMATICS AND COMPUTER SCIENCE DEPARTMENT

As of 1991

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	MALIBA, CHARLES	24	TECHNICIAN PART 3 (ELECTRICAL INSTALLATION) - HIGGAT 1989	TECHNICIAN	COMPUTER PROGRAMMING AND MAINTENANCE	RECOMMENDED FURTHER TRAINING, B. TECH. OR ADVANCED DIPLOMA OR B.Sc. COMPUTER SCIENCE
2			PC NETWORK CERTIFICATE ORINAWA INTERNATIONAL CENTRE 1991			
3						
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18						
19						
20						
21						

2. STAFF RECRUITMENT PLAN OF MATHEMATICS & COMPUTER SCIENCE DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	PROFESSOR	APPLIED MATHEMATICS		1			1	
2.	PROFESSOR	COMPUTER SCIENCE				1	1	
3.	ASSOCIATE PROF.	APPLIED MATHEMATICS	1				1	
4.	ASSOCIATE PROF.	PURE MATHEMATICS		1			1	
5.	ASSOCIATE PROF.	STATISTICS			1		1	
6.	SENIOR LECTURER	APPLIED MATHEMATICS	1	1			2	
7.	SENIOR LECTURER	COMPUTER SCIENCE	1		1		2	
8.	SENIOR LECTURER	PURE MATHEMATICS	1			1	2	
9.	SENIOR LECTURER	STATISTICS	1			1	2	
10.	LECTURER	APPLIED MATHEMATICS	2		1	1	4	
11.	LECTURER	COMPUTER SCIENCE	2		1	1	4	
12.	LECTURER	PURE MATHEMATICS	2	1			4	
TOTAL								

2. STAFF RECRUITMENT PLAN OF MATHEMATICS & COMPUTER SCIENCE DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
13	LECTURER	STATISTICS	2	1		1	4	
14	ASSISTANT LECTURER	APPLIED MATHEMATICS	1	1		1	3	
15	ASSISTANT LECTURER	COMPUTER SCIENCE	1	1	1		3	
16	ASSISTANT LECTURER	PURE MATHEMATICS	1		1	1	3	
17	ASSISTANT LECTURER	STATISTICS	1	1	1		3	
18	TEACHING ASSISTANT	APPLIED MATHEMATICS		1		1	2	
19	TEACHING ASSISTANT	COMPUTER SCIENCE		1		1	2	
20	TEACHING ASSISTANT	PURE MATHEMATICS			1		1	
21	TEACHING ASSISTANT	STATISTICS			1	1	2	
10								
11								
12								
		RECRUIT TOTAL	17	9	10	12	48	
		ADD CURRENT PROJ. STAFF	9	26	35	45	9	EXISTING STAFF 1991
		OVERALL TOTAL	26	35	45	57	57	

2. 2 Technical Staff DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	COMPUTER TECHNICIAN	- PROGRAMME AND MAINTAIN COMPUTERS	2		1		3	
2.	COMPUTER PROGRAMMER	- WRITE PROGRAMMES		1		1	2	
3.		RECRUIT TOTAL	2	1	1	1	5	
4.		ADD PROJ. EXISTING STAFF	1	3	4	5	1	EXIST STAFF 1991
5.		TOTAL	3	4	5	6	6	
6								
7								
8								
9								
10								
11								
12								
		TOTAL						

3 STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF MATHEMATICS & COMPUTER SCIENCE DEPARTMENT (DRAFT)

3.1 University College Council Staff

No.	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED
			1990	1991	1992	1993	1994	
1	G. X. STOWER Ph.D	FLUID MECHANICS						6 months short study
2	J.K.N. MACHARIA MSc.	COMPUTER SCIENCE						Ph.D
3	LOISE GATHARIA BEd.	COMPUTER SCIENCE						MSc or Ph.D
4	GEORGE M. GATHITU BEd.	APPLIED MATHEMATICS						Already on MSc
5	MIRIAM KANYUGI BEd.	STATISTICS						MSc
6	MATHEW KINYANJUI MSc.	FLUID MECHANICS						Ph.D
7	KEPHER MAKAMBI MSc.	STATISTICS						Ph.D
8	AUGUSTUS N. WALI MSc.	PURE MATHEMATICS						Ph.D
9	JOHN M. WEKESA MSc.	STATISTICS						Ph.D
10	CHARLES MALOBA Tech. Part 3	COMPUTER SCIENCE						B. Tech. / Advanced Diploma/BSc
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

4. ACADEMIC ACTIVITIES OF
4.1 RESEARCH POLICY

DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

Page: 1

<p>1. <u>Objectives</u> Use of good computing facilities to aid research</p> <p>2. <u>Areas of Priority</u> Fluid Mechanics, Computer Science, Statistics</p> <p>3. <u>Strategies</u> Collaborate with colleagues who have a similar interest, also with other departments in the Faculties of Science, Agriculture and Engineering</p>	<p>4. <u>Possible research to be undertaken</u> Specific areas to be identified by staff concerned</p> <p>5. <u>Requirements for the implementation</u> Funds for travel and subsistence. Stationery Access to scientific journals</p>
---	--

4. 2 LIST OF ACADEMIC ACTIVITIES DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
SEMINARS				
1.	JOHN M. WEKESA	UMFPA sponsored seminar at Silver Springs Hotel, Nairobi - 28/2/91		
2.		Kenya's Population Projections and Some of their Implications to Education Planning		
3.	JOHN M. WEKESA JOHN K. OMURUNDO	African Congress of Mathematician International at KICC Nairobi 20-28/8/91 Mathematics in Population		
4.	DR. G. X. STOWER	Faculty of Science Seminar, JKUAT, June 1991 Modelling in Fluid Mechanics		
5.	HENRY MURRAY HUMPHREYS	Department of Maths Seminar, JKUAT, May 1991 'Three into two won't go - problems of timetabling in the Faculty of Science		

4. 3 LIST OF CURRENT RESEARCH PROGRAMMES DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

From April, 1990 up to December, 1990

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	KEPHER MAKAMBI	ROBUST VARIANCE ESTIMATION IN FINITE POPULATIONS	NO	NOT SPECIFIED
2.				
3.				
4.				
5.				

OTHER PUBLICATIONS

1	<u>Name of Author</u> Mathew Kinyanjui	<u>Title</u> Manual for Unit in Ordinary Differential Equations	<u>Published</u> NO
2	H. M. Humphreys + others R. M. Humphreys editing for Mr. S. M. Uppal (K.U.)	Heinemann Secondary Mathematics Book 3 December, 1990 KCSE Revision Tests in Mathematics	NO

4.4

AREA OF RESEARCH INTERESTED BY STAFF DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

In order to strengthen research in the department, there are two major needs:

(1) Professors and Senior Lecturers to be appointed in all four areas of the department

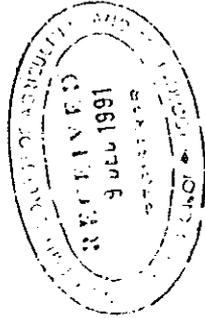
(ii) As many opportunities as possible for young members of staff to be able to pursue Ph.D studies to equip them in a specialised field of study.

4.2A ADDITIONAL SEMINARS DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

NAME

DETAILS

6. MR. ONO Y., MISS L. GATHARIA, MR. C. MALOBA ORGANISED 9/9/91 - 20/9/91 WITH DEAN, FACULTY OF SCIENCE AND LECTURERS FROM EGERTON UNIVERSITY. A 25 HOUR SEMINAR IN HANDS ON COMPUTING FOR TOP MANAGEMENT IN JKUCAT.
7. MR. Y. ONO, MISS L. GATHARIA, MR. C. MALOBA, ORGANISED 2 - 6/12/91 WITH DEAN, FACULTY OF SCIENCE, TO TEACH A 25 HOUR SEMINAR MR. J. MACHARIA, DR. KANGETHE (ELECTRICAL ENG.) IN HANDS ON COMPUTING (DOS, WORDPERFECT, LOTUS 1-2-3) TO ACADEMIC STAFF IN FACULTY OF SCIENCE, JKUCAT.



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4.3 List of current research programmes (from April 1991 to December 1991)	9
4.4 Area of research interested by staff	

1. STAFF LIST OF PHYSICAL SCIENCE DEPARTMENT

Page:

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc. *	Remarks Required for
1	Prof. F. Kaberia	41	Ph.D	Chairman	Organic Stereo Chemistry	Organic Chemistry Courses -	
2	Prof. J.M. Ndombi	42	Ph.D	Dean, Fac. of Sci.	Geophysics	Physics Courses	
3	Mr. P. Githira	44	BSc, MSc	Lecturer	Organic Chemistry	Organic Chem. Courses	On Study Leave
4	S. Kariuki	34	BEd So., MSc, Chem	Lecturer	Organic Chemistry	" " "	Further Studies Required
5	J.M. Keriko	34	BEd So., MSc, Chem	Lecturer	Organic Chemistry	" " "	"
6	G. Thuku Thiong'o	36	BEd So., MSc	Lecturer	Organic Chem/Physical Chem	" " "	"
7	A.O. Onditi	34	BSc, MSc	Lecturer	Analytical Chemistry	Analytical Chem Courses	"
8	D.M. Mlati	30	MSc	Lecturer	Solid State Physics	Physics Courses	"
9	W. Waudo	34	BSc, MSc	Lecturer	Analytical Chem	" " "	"
10	C. N. Ogeri	34	BEd So., MEd (Physics)	Assistant Lect.	Physics Education	" " "	"
11	M. O. Korowe	33	BSc, P.G.D., MSc - Geophysics	Assistant Lect.	Geophysics	" " "	"
12	A. Madhana	28	BSc, MSc	Assistant Lect.	Microelectronics	" " "	"
13	J. Ndeda	36	MSc	Assistant Lect.	Applied Physics	" " "	Study Leave
14	P. H. Onondi-Mitula	38	BSc	Teaching Assistant	Physics	" " "	"
15	A. M. Salim	34	BEd. Sc., MSc. Cert (Arabic)	"	Physical Chemistry	Physical Chem. Courses	Further Studies Required
16	M.K. Digore	30	BSc	Graduate Assistant	Geophysics	Physics Courses	"
17	Mrs. E. Omulokoli	33	BEd (Sc)	Teaching Assistant	Analytical Chemistry	Chemistry Courses	Study leave.
18	J. A. Mwanji	44	MSc.	Assistant Lecturer	Physics	Physics courses	Further Studies required.
19							
20							
21							

As of

1. Academic Staff under University Council

1. 2 Technical Staff under University Council

PHYSICAL SCIENCE DEPARTMENT

As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	F. Makusa Willy Mawili	32	Ord. National Dip.-Applied Sc. Higher National Dip-Analy.Chem	Senior Tech.	Physical Chem. Inorg. Chem Organic Chem. Applied/Analy.Chem	Further studies required.
2	F. N. Miganbi	37	Part III - Electronics	Senior Tech.	Electronic, General Physics Computer Hardware & Software Organic Chem. Inorganic Chem. Physical Chemistry.	" " "
3	W. K. Kungu		Ordinary diploma	Technician	Electronics, General Physics	" " "
4	W. Z. S. Olume	25	Radio T.V. & Electronics Technician I	Technician	Laboratory Practice, Organic Chemistry, Analytical Chem	" " "
5	E. W. Wambugu	25	Ordinary Diploma in Applied Chem.	Technician		" " "
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2. STAFF RECRUITMENT PLAN OF PHYSICAL SCIENCE DEPARTMENT

2. 1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Professor	Physics	1				1	
2.	Professor	Chemistry		1			1	
3.	Associate Prof.	Organic Chemistry	1				1	
4.	Assoc. Professor	Physics		1			1	
5.	Senior Lecturer	Organic Chemistry		1				
6.	Senior Lecturer	Inorganic Chemistry		1			1	
7.	Senior Lecturer	Physical Chem.		1			1	
8.	Senior Lecturer	Organic Chemistry		1			1	
9.	Senior Lecturer	Physics		1	1	1	3	
10.	Lecturer	Chemistry	5	1	1		7	Unlikely
11.	Lecturer	Physics	1	4	2		7	Unlikely
12.	Assistant Lecturer	Physics	4			1	5	Unlikely
		TOTAL						

2. STAFF RECRUITMENT PLAN OF _____ DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
13.	Assistant Lecturer	Chemistry	1	1	1	1	4	Unlikely
14.	Teaching Assistants	Chemistry	1	2			3	Yes
15.		Physics	1			2	3	Yes
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
		TOTAL						

2. 2 Technical Staff PHYSICAL SCIENCE DEPARTMENT

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Chief Technician	Chemistry			1		1	Unlikely
2.	Chief Technician	Physics			1		1	Unlikely
3.	Senior Technician	Chemistry	1		1	1	3	Likely
4.	Senior Technician	Physics		1	1	1	3	Likely
5.	Technician	Chemistry	2		1	1	4	Likely
6.	Technician	Physics	1	1	1	1	4	Likely
7.	Lab. attendants	Physics		3	1	1	5	-
8.	Lab. attendants	Chemistry		3	2	1	6	-
9.	Secretary	-		1			1	-
10.	Copy typist	-		1			1	-
11.								
12.								
		TOTAL						

No	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED
			1990	1991	1992	1993	1994	
1	J. Keriko -MSc	Organic Chemistry	←	←	←	←	←	Ph. D
2	S. Kariuki - MSc	Organic Chemistry	←	←	←	←	←	Ph. D
3	O. Anam - MSc	Analytical Chemistry	←	←	←	←	←	Ph. D
4	G. T. Thiong'o - MSc	Organic Chemistry	←	←	←	←	←	Ph. D
5	W. Waudo - MSc	Analytical Chemistry	←	←	←	←	←	Ph. D
6	D.M. Mulati - MSc	Physics	←	←	←	←	←	Ph. D
7	M. Korowe - MSc	Physics	←	←	←	←	←	Ph. D.
8	J.A. Mwanji - MSc	"	←	←	←	←	←	Ph. D.
9	C. Ogeri - MSc	"	←	←	←	←	←	Ph. D
10	A. Madahana - MSc	"	←	←	←	←	←	Ph. D
11	P.G. Kareru - MSc	Chemistry (Organic)	←	←	←	←	←	Ph. D.
12								
13								
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4. ACADEMIC ACTIVITIES OF PHYSICAL SCIENCE
4.1 RESEARCH POLICY

DEPARTMENT

Page:

1. Objectives

- (a) To further knowledge in individual members' area of specialization.
- (b) Train young researchers who will join teaching in our higher Institutions as well as research institutions.
- (c) Engage in applied research that is of economic importance to our country.

2. Areas of Priority

- (a) Initiate research in various areas of chemistry and Physics.
- (b) Readmit young teaching assistants for staff development. These to register for M.Sc in our department.
- (c) Encourage and try to initiate collaborative interdisciplinary research with members of staff in various disciplines.

3. Strategies

- (a) Readmit senior members of staff in their various areas of specialization.
- (b) Equip our research labs adequately.
- (c) Try attract distinguished scholars to the department from other Universities.

4. Possible research to be undertaken

- (a) Synthetic Organic stereochemistry
- (b) analytical chemistry.
- (c) Physical Chemistry
- (d) Geophysics
- (e) Theoretical Physics.

5. Requirements for the implementation

- (a) A chemistry and physics research laboratory that is adequately equipped.
- (b) Financial assistance to enable researchers carry out their work.
- (c) Employment of adequate academic and technical staff to enable lecturers ample time for research.

DEPARTMENT OF PHYSICAL SCIENCE
 4. 2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
	SEMINAR			
1.	Prof. J. M. Ndombi	Satelite Communications	J.K.U.C.A.F.	20. 6. 91
2.				
3.				
4.				
5.				

4. 3 LIST OF CURRENT RESEARCH PROGRAMMES

From April, 1990 up to December, 1990

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	Prof. F. Kaberia	Determination of conformational Energy in a gaseous medium using a combination of GLC Retention tin and GLC Head - space analysis method.	Published	
		Journal of Biochemiphysics 1, 27 (1991).		

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4.3 List of current research programmes (from April 1991 to December 1991)	8
4.4 Area of research interested by staff	9

1. STAFF LIST OF BIOLOGICAL SCIENCES DEPARTMENT

Page:

1.1 Academic Staff under University Council

As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc.	Remarks Required for
1	V.W. NGUMI	31	B. Ed (Sc), MSc (Bot)	LECTURER	PLANT PHYSIOLOGY	Plant Physiology Plant Morphology	
2	V.C. NYAMBATI	37	BSc MSc PHD (Biochem) (Biochem)	LECTURER	IMMUNO CHEMISTRY & MOLECULAR BIOLOGY	Plant Function Cell & Tissue Culture General Biochemistry Immunochimistry	
3	E. Mwangi	30	BSc, MSc (Zoo)	LECTURER	TERRESTRAL ECOLOGY	Nucleic Acid Chemistry Laboratory Techniques Introd. to Ecology & Vertebrate Zoology	
4	J. M. Mberia	38	BEd (Sc), MEd (Bio)	ASS. LECTURER	GENETICS	Biostatistics Theoretical ecology Applied ecology.	
5	D. B. Mitoro	33	BSc, MSc (Zoo)	LECTURER	FISH BIOLOGY	Botanical Techniques Genetics (Gen. & Advanced) General Zoology, Intro. to Animal Phy., Inver. & Veter. Zoology	
6	P. Mbugho	32	BEd (Sc), MSc (Zoo)	ASS. LECTURER	CELL BIOLOGY	Ichthyology, Agnetic Ecology I & II.	
7	E. Onino	29	BSc., MSc (Bot).	ASS. LECTURER	PLANT TAXONOMY	Cellular basis of life Cell biology & genetics Cytogenetics & Molecular Biology Developmental biology	
8	H. Kutiina	33	BEd (Sc), MSc (Zoo).	TEACHING ASSISTANT	PARASITOLOGY	Plant taxonomy Plant ecology, Economic Botany.	
18						ZL 2100, ZL 2200 ZL 2308, ZL 2410 ZL 2408.	
19							
20							

1. 2 Technical Staff under University Council BIOLOGICAL SCIENCES DEPARTMENT As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	REMARKS/REQUIRED FOR
1	P.N. Njoroge			Senior Technician	Botany	
2	J.D.N. Gachanja	39	Animal Health Cert. Higher Dip. Medical Techn. Educational Dip.	Senior Technician	Zoology	
3	P. Otiemo	24	O and higher Dip. in Applied Biology	Technician	Botany	
4	J.K. Mutia	28	O Dip. (Medical Lab. Tech).	Technician	Zoology	
5	P. Egalan	34	O. Dip. Applied Biology	Technician	Zoology	
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2. STAFF RECRUITMENT PLAN OF BIOLOGICAL SCIENCES DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	Botany	SPECIALITY Zoology	Biochemistry	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Professor	1, 2, 3, 4	0, 1, 2, 3	0, 1, 2, 3	1	4	7	10	22	
2.	Assistant Professor	1, 2, 3, 4,	0, 1, 2, 3	0, 1, 2, 3	1	4	7	10	22	
3.	Senior Lecturer	1, 3, 6, 9	1, 3, 6, 9	1, 3, 6, 9	3	9	18	27	57	
4.	Lecturer	3, 6, 9, 12	3, 6, 9, 12	3, 6, 9, 12	9	18	27	36	90	
5.	Assistant Lecturer	3, 6, 9, 12	3, 6, 9, 12	3, 6, 9, 12	9	18	27	36	90	
6.	Teaching Assistants	2, 5, 8, 11	2, 5, 8, 11	2, 5, 8, 11	6	15	25	33	78	
7.										
8.										
9.										
10.										
11.										
12.										
TOTAL										

2. 2 Technical Staff

No.	DESIGNATION	BOTANY	SPECIALITY ZOOLOGY	BIOCHEMISTRY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	CHIEF TECHNICIAN	1,1,1,1,1,	0,1,1,1,1,	0,0,1,1,1	1	2	3	3	9	
2.	SENIOR TECHNICIAN	1,2,4,8	1,2,4,8	1,2,4,8	3	6	12	24	45	
3.	TECHNICIAN	2,4,6,8	2,4,6,8	2,4,6,8	6	12	18	24	60	
4.	JUNIOR TECH.	1,2,4,8	1,2,4,8	1,2,4,8	3	6	12	24	48	
5.	LAB. ATTENDANT	2,5,7,9	3,5,7,9	2,3,4,6	8	13	18	24	63	
6										
7										
8										
9										
10										
11										
12										
TOTAL										

3. STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF BIOLOGICAL SCIENCES

3.1 University College Council Staff

Period of JICA Technical Cooperation

No	Staff (Qualification)	AREA OF STUDY	1990	1991	1992	1993	1994	1995	TYPE OF STUDY REQUIRED
1	V. W. Ngumi -BED (Sc); MSc (Bot)	Plant Physiology (Botary)							Ph. D
2	V.N. Nyambati BSc, MSc(Biochem) PhD (Biochem)	Immunoche Mistry & Molecular Biology (Biochemistry)							Short Course (Short Course (On completion of Ph.D.Studies)
3.	E. Mwangi -BSc, MSc(Zoo) (PhD in progress)	Terrestrial Ecology (Zoology)							Ph.D.
4.	D.B. Mitoro BSc, MSc (Zoo)	Fish Biology							Ph. D
5.	J. M. Mberia BEd (Sc), MEd(Zoo)	Genetics							Ph. D
6.	P. Mbogho BEd (Sc); MSc (Zoo)	Cell Biology							Ph. D
7.	E. Onino BSc, MSc (Botany)	Plant Taxonomy							Ph. D
8.	Ir. Kutima BEd (Sc),MSc(Zoo)	Parasitology							Ph. D

1. Objectives

- To initiate various research projects based on the Biological aspects that affect the lives of people:-
 - (i) in and around the college
 - (ii) in marginal areas.

- Training of staff in various disciplines according to the Departmental needs.

2. Areas of Priority

- Ecology
- Environmental studies
- Physiology & Biochemistry
- Molecular Biology (Genetics).

3. Strategies

- Field work studies and surveys
- Laboratory studies
- Green house observations.

4. Possible research to be undertaken

- Studies on plant and animal communities
- Studies on human impact on JKUAF. Ecosystems and environment.
- Studies on the Physiology and biochemistry of these organisms.
- Studies on the genetics of these organisms.

5. Requirements for the implementation

- Manpower
- Field survey equipment:- Quadrats, plant collection equipment; Herbarium cabinets; museum shelves, specimen bottles, etc.
- Laboratory equipment:- Equipment for measurement of esp., photosyn transp, growth, lux meters
- Radioisotope laboratory.
- Green house:- A fully equipped Biological studies green house would be required.

4. 2 LIST OF ACADEMIC ACTIVITIES BIOLOGICAL SCIENCES DEPARTMENT

- Major Accomplishments from April, 1990 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.	Establishment of the Department	Breeding of animals (rabbits, rats), for research and teaching		
2.	" "	Planting of seedlings in Botanical garden for research and teaching.		
3.	" "	Collection of Zoological specimens for research and teaching		
4.	" "			
5.	" "			
6.	" "			
7.	" "			
8.	" "			
9.	" "			
10.	" "			
1.	V. W. Ngumi	Plant Tissue Culture		
2.		An important research technique in Plant Physiology	J.K.U.C.A.T., Faculty of Science	5. 6. 91
3.	V. C. S. Nyambati	Epidemiology of Leishmaniasis in Kenya: Parasite characterization	Rockefeller University, New York, U.S.A.	22. 10. 91
4.				
5.				

4. 3 LIST OF CURRENT RESEARCH PROGRAMMES BIOLOGICAL SCIENCES DEPARTMENT

From April 1990 up to December 1994

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	V. W. Ngudi and Muriithi P.K. (student)	(i) Micropropagation studies of edible Fungi	in progress	
	V.W. Ngudi and Matiri J.M.(student)	(ii) Micropropagation studies of Arrowroots	in progress	
2.	J.M. Mberia and students	Gene compatibility between: (i) <u>Lycopersicon esculentum</u> var. <u>ceraciforme</u> and M 82 (ii) <u>Lycopersicon esculentum</u> var. <u>ceraciforme</u> and marglobe (iii) <u>Lycopersicon esculentum</u> var. <u>ceraciforme</u> and <u>cal. J.</u>	in progress in progress in progress	
3.				
4.				
5.				

AREA OF RESEARCH INTERESTED BY STAFF:

- Molecular Genetics
- Ecology
- Biochemistry and Physiology
- Parasitology.

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4.4 Area of research interested by staff	

1. STAFF LIST OF Institute for Human Resource Devt DEPARTMENT

Page: /

1.1 Academic Staff under University Council

As of

No	NAME	AGE	QUALIFICATIONS	DESIGNATION	SPECIALITIES	SUBJECTS ABLE TO COVER IN SYLLABUS FOR B.Sc. *)	Remarks Required for Post Grad. Computer
1	Dr. H.M. Bwisa	37	MSc., Ph.D	Senior Lecturer	Industrial Economics Entrepreneurship	Management Entrepreneurship	Post Grad. Computer
2	Luke Oyugi	40	BSc. Agric, M.Sc. Agric. Econ.	Lecturer	Farm Management Agric. Marketing	Farm Management	Ph.D
3	P. Wanyonyi	35	B.Ed, P.G.D. Operations Research & Statistics	Teaching Asst.	Operations research, Stat	Dev. Studies O.R.	MSc.
4	F. Sira	37	BEd. Menu Studies	Lecturer	Co-operative Management Environmental Studies	Dev. Studies	Ph.D
5	M.N. Anyangu	28	B.Com(Hons), M.B.A., CPA	Ass. Lecturer	Accounting & Finance	Farm Records & A/cs Indus Bookkeeping	Ph.D
6	B. Sabana	33	B.Ed(Hons) M.B.A.	Lecturer	Mktg & Management	Industrial organisation and Management	Ph.D
7	Kavoi M.M.	27	BSc. Agric. MSc. Agric Econ	Ass. Lecturer	Farm Mngt & Agric. Marketing	Production Econ, Farm Mgt, Agric Marketing	Ph.D
8	E. Mukulu	42	B.A., M.A.	Lecturer	Communication	Communication	Ph.D
9	Dr. C. Wangia	45	BSc. Agric., MSc. Ph.D Agric-Economics	Senior Lecturer	Agric. Economics	Agric. Marketing, International Trade Agricultural Credits Accounts	Short Cour in Compute Entrepreneu Ship.
10							
11	G. S. Namusonge	35	BEd.(Hons) M.B.A.	Senior Lecturer	Small Enterprise Dev. (Financing)	Farm Records/and Accounts, Industrial Book-keeping, Finance	Already Registered
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

2. STAFF RECRUITMENT PLAN OF _____ DEPARTMENT

2.1 Academic Staff

No.	DESIGNATION	SPECIALITY	1991/92	1992/93	1993/94	1994/95	Total	POSSIBILITY OF LOCAL UNIVERSITY
1.	Professor	Entrepreneurship/Agricultural Economics	1	3	4	5	13	
2.	Associate Prof.	"	1	3	4	6	14	
3.	Senior Lecturer	"	4	6	8	10	28	
4.	Lecturer	Farm Management/Entrepreneurship	6	8	10	14	38	
5.	Ass. Lecturer	Farm Management/Entrepreneurship	6	8	10	14	38	
6.	Teaching Ass.	Project Management/Farm Management	1	3	4	5	13	
7.								
8.								
9.								
10.								
11.								
12.								
TOTAL			19	31	40	52	142	

3. STAFF DEVELOPMENT PLAN USING JAPANESE FUND OF DEPARTMENT (DRAFT)

No	Staff (Qualification)	AREA OF STUDY	Period of JICA Technical Cooperation					TYPE OF STUDY REQUIRED	
			1990	1991	1992	1993	1994		1995
1	Dr. H.M. Bwise MSc. Ph.D	Industrial Economics Agricultural Economics Entrepreneurship and Small Business Management.	■	■					Diploma in Computer Studies Ph.D (Agricultural Economics) Four Months Course
2	L.A. Dyugi BSc. MSc.								
3	G. S. Namusonge								
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

4. ACADEMIC ACTIVITIES OF
4.1 RESEARCH POLICY

DEPARTMENT

<p><u>1. Objectives</u></p> <p>To conduct research in inter disciplinary areas.</p> <p><u>2. Areas of Priority</u></p> <ol style="list-style-type: none">1. Farm Management2. Entrepreneurship and Small Business3. Agricultural Economics4. Technology <p><u>3. Strategies</u></p> <p>Collaborative research</p>	<p><u>4. Possible research to be undertaken</u></p> <ul style="list-style-type: none">- How to improve technology in Micro enterprise manufacturing- How to promote women entrepreneurs in agri-business <p><u>5. Requirements for the implementation</u></p> <p>Research funds</p>
--	--

4.2 LIST OF ACADEMIC ACTIVITIES

- Major Accomplishments from April, 1980 up to December, 1991

NO.	NAME OF RESEARCHER	TITLE	PUBLISHED at	DATE
1.	Dr. H. M. Bwisa	Organization of Science and Technology in Africa - A Desk Research leading to a paper	African Development Review - June 1990	June 1990
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
	SEMINARS			
1.	Dr. H. M. Bwisa	Technological Solutions for Econ. Dev. in Kenya Now and the 21st Century - Two Papers	JKUCAT BY JKUCAT, JICA	1991 March
2.	L. A. Oyugi	Techniques of Farm Survey, The Kenyan Experience & Others	GTZ Farm Manag. Project Nairobi	Sept. 1991
3.	G. S. Namusonge	Small Business Finance	JKUCAT	Sept. 1991
4.				
5.				

4. 3 LIST OF CURRENT RESEARCH PROGRAMMES

From April, 1980 up to December, 1990

NO.	NAME OF RESEARCHER	TITLE OF RESEARCH	PUBLISHED OR NOT	SOURCE OF FUND
1.	Dr. H. M. Bwisa	Industrial Organization of Vegetable Oil Processing Industry in Kenya.	On-going Research	IDRC
2.	L. A. Oyugi	1. Farm Survey in Muranga District 2. Farm Survey in Nakuru District 3. Farm Survey in Embay District	1. Bound 2. Bound 3. Bound	GTZ E/Management Project
3.	L.A. Oyugi	Agronomic Practices and Economic Analysis of major crop enterprises in Nakuru District	Bound	"
4.	G.S. Namusonge	Financing Small Scale Enterprises the case of Nairobi.	Not published	
5.				

附属資料⑨

文部省国費留学生実績

文部省留学生実績

(JKCAT・JKUCAT)

No	年次	学部	学科	氏名	研修科目	研修期間	受入先	現職
△	1981 (2)	農学部	食品	S.Moturi	食品工学	1981-04~1984-03	広島大生物生産	修 Keniya Inst. of fed. Research
		工学部	機械	I. K. Inoti	農業機械	1981-04~1984-03	京都大農業工学	修 農業工学科長
△	1982 (2)	農学部	園芸	P. N. Kingori	植物病理	1982-10~1987-03	東京農工大	修 Coffee Research station
		工学部	電気	S. Mushoki	電子工学	1982-10~1985-10	電気通信大	修 日本原子力研究所
5	1983	農学部	農工	M. C. Makokha	土壌水利	1983-04~1986-03	琉球大農学部	修 事務局次長
△	1984 (2)	農学部	食品	R. G. Omoto	畜産加工	1984-04~1987-10	帯広畜産大	修 Medical Training school
		工学部	土建	G. Wanyona	建築施工	1984-04~1987-04	京都大工学部	修 建築学科講師
8	1985	工学部	土建	J. Z. Mwatelah	都市計画	1985-09~1988-03	鳥取大工学部	修 土木工学科長代行
△	1986 (4)	農学部	園芸	F. Murage	育種学(果樹)	1986-04~1989-03	岡山大農学部	修 園芸学科講師
		農学部	食品	G. M. Kenji	食品化学	1986-04~1988-03	岡山大農学部	修 食品科学ポストハーベスト学科長
△		工学部	土建	M. S. Ibrahim	土木建築	1986-04~1988-03	鳥取大工学部	修 病気退職
△		工学部	機械	I. K. Inoti	農業機械	1986-10~1990-03	京都大農学部	博 農業工学科長
△	1987 (3)	農学部	園芸	V. W. Ngumi	植物生理	1987-04~1989-03	広島大農学部	修 生物科学科長
		農学部	農工	J. T. Makanga	農業機械	1987-10~1990-03	帯広畜産大畜産	修 農業工学科講師
△		工学部	電気	S. Musyoki	電気通信	1987-10~1990-03	東北大工学部	博 日本原子力研究所
△	1988 (4)	農学部	食工	M. C. Kiiyukia	食品衛生	1988-04~1990-03	広島大農学部	修 広島大博士課程 D ₂
		農学部	農工	S. J. Okuwach	構造力学	1988-04~1990-03	東京農工大農学部	修 東京農工大博士課程 D ₁
△		工学部	土建	T. G. Muturi	衛生工学	1988-04~1990-03	大阪産業大工学部	修 京都大博士課程 D ₂
△		工学部	電気	N. E. Nganga	情報工学	1988-04~1990-03	鳥取大工学部	修 電気電子学科講師
△	1989 (3)	工学部	機械	H. N. Warui	流体力学	1989-10~1992-03	岩手大工学部	修 郡馬大博士課程入学済
		工学部	電気	P. K. Kamita	動力電子	1989-10~1992-03	鳥取大工学部	修 1990年3月帰国予定
△		その他	教化	J. M. Mungai	水質汚染	1989-04~1992-03	広島大生物生産	修 同上
△	1990 (3)	工学部	機械	S. M. Wanji	熱力学	1990-04~1993-03	岩手大工学部	修 留学中
		工学部	機械	G. Wanyoike	制御工学	1990-04~1993-03	岩手大工学部	修 留学中
△		農学部	農工	S. W. Mugucia	農業機械	1990-04~1993-03	岩手大農学部	修 留学中
△	1991 (3)	農学部	食品	F. M. Mathooko	ポストハーベスト	1991-04~1994-03	岡山大農学部	博 留学中
		工学部	電気	F. M. Mumba	エレクトロニクス	1991-04~1994-03	愛媛大工学部	修 留学中
△		工学部	土木	O. M. Nyadava	土木工学	1991-04~1994-03	群馬大工学部	修 留学中

△: JKUCATより退職

このほか以下の2名が、私費、または、大学推薦枠で日本へ留学中。

(私費)	1	1988	工学部	電気	D. B. Konditi	磁化特性	1988-08~1991-03	鳥取大学工学部	修	電気電子学科講師
(大学推薦)	2	1989	工学部	機械	M. F. Oduori	農業機械	1989-10~1993-03	九州大学工学部	博	九州大博士課程 D ₂

附属資料⑩

新聞記事

DAILY NATION

ABC

 MEMBER OF THE
 AUDIT BUREAU
 OF CIRCULATION

Moi thanks Japan for Aid

By KENYA NEWS AGENCY
 President Moi yesterday thanked the Japanese Government for its economic support to Kenya.

The President said Kenya had greatly benefitted from close co-operation with Japan which had led to the funding of various development projects in the country.

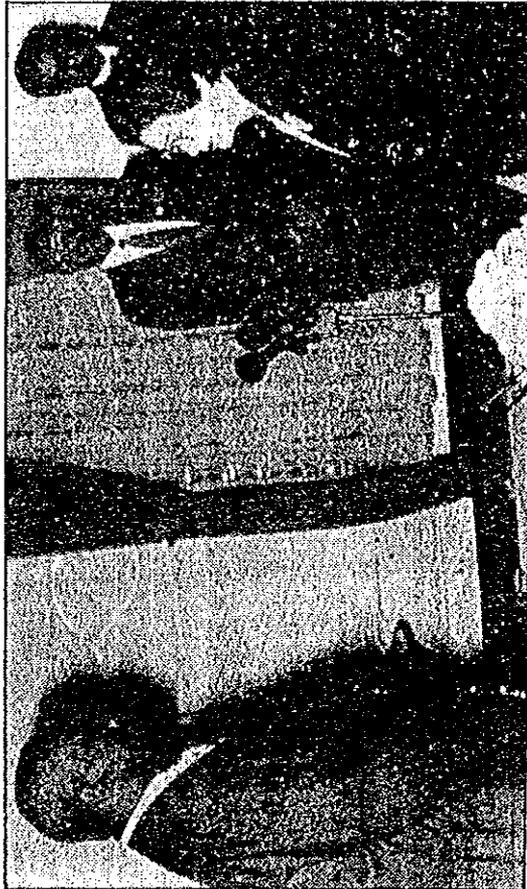
He said the Government and the people of Kenya appreciated the economic assistance given by Japan and would continue to count on it in future.

President Moi was speaking at State House, Nairobi, when he received credentials of the new Japanese ambassador to Kenya, Mrs Ginko Sato.

The President cited tourism industry and education as some of the areas which had received assistance from Japan.

The President pointed out that Japan and Kenya enjoyed cordial relations and expressed the hope that the new ambassador would strengthen it further.

Mrs Sato conveyed to President Moi greetings from His Maj-



President Moi talks to the new Japanese Ambassador to Kenya, Mrs Ginko Sato, at State House, Nairobi, soon after receiving credentials from her.

esty The Emperor of Japan. She recalled President Moi's visits to Japan in 1989 and last year and said they had enhanced the relations.

The President also received credentials of the new high commissioner of Cyprus and Swaziland, Mr Michael Spanos and Prince Churchill Dlamini respectively. Receiving credentials of the Cyprus High Commissioner, President Moi said Kenya wished to see Cyprus remain united.

The President said that Kenya

strong relations and co-operated in various fields.

Prince Dlamini thanked the Kenya Government for the training opportunities offered to Swazi people in institutions here.

The President also received credentials of the new Israeli ambassador to Kenya Dr Arye Oded. President Moi said he looked forward to visiting Israel to see some of the historical cities and sites.

Dr Oded conveyed to President Moi greetings and well-wishes from President Chaim Herzog.

and Cyprus have similar historical backgrounds having been once colonised.

Mr Spanos praised President Moi for his tireless efforts in the promotion of peace in this region.

He said the bonds of friendship between Kenya and Cyprus had been sealed by the personal friendship between the late Mzee Jomo Kenyatta and the late Archbishop Makarios.

Receiving credentials from Prince Churchill, President Moi said Kenya and Swaziland had

JICA