

CHUKA



UNIVERSITY

This is to certify that

Lilian Mogoi Orenge

having satisfied the requirements for the award of the Degree of

***Bachelor of Science in Food Science
and Technology***

Second Class Honours (Upper Division)

was admitted to the Degree
at a Congregation held at this University on
Friday 18th December, 2020


Registrar
(Academic)


Deputy Vice-Chancellor
(Academic)


Vice-Chancellor

CHUKA**UNIVERSITY**

Telephones: 0731 620266

 P.O Box 109-60400
 CHUKA.KENYA
 Email- raca@chuka.ac.ke
Official Transcript

Reg Number: DB11/28457/16

Name : ORENGE MOGOI LILIAN

Year of Study : 1

Faculty : FACULTY OF AGRICULTURE AND
ENVIRONMENTAL STUDIESProg. of Study : BACHELOR OF SCIENCE IN FOOD
SCIENCE & TECHNOLOGY

Date of Admission : 15-09-16

Date of Graduation : 18-12-20

Course Code	Course Description	Academic Hours	Grade
CHEM 102	General Inorganic and Physical Chemistry	45.00	D
ECON 100	Introductory Economics	45.00	C
ENSC 100	Environmental Education	45.00	A
FOST 101	Introduction to the Food Industry	45.00	B
MATH 100	General Mathematics	45.00	B
PHIL 100	Introduction to Philosophy	45.00	C
ZOOL 100	General Zoology	45.00	B
AGRI 102	Principles of Crop Production	15.00	C
BOTA 111/10	Genetics	52.50	B
BOTA/MICB 1	General Microbiology	45.00	B
CHEM 103	General Organic Chemistry	45.00	C
COMS 101	Communication Skills	45.00	A
COSC 101	Introduction to Computing and Applications	45.00	A
FOST 131	Fundamentals of Food Engineering 1	45.00	B
PHYS 103/11	General Physics	52.50	D
Averages :> Current...: 61.35		Cummulative...:	61.00

RECOMMENDATION:

PASS; PROCEED TO YEAR TWO OF STUDY

Legend:

A - 70-100% - EXCELLENT

B - 60-69% - GOOD

C - 50-59% - SATISFACTORY

D - 40-49% - PASS

F - 0-39% - FAIL

CT- Credit Transfer

- Audited

* - Missing Marks

+ - Retake

Signed _____

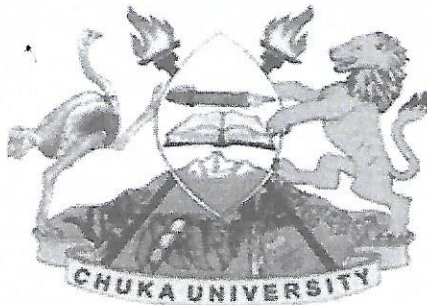
Registrar Academics

14 DEC 2020

Printed on 14-12-20

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Reg Number: DB11/28457/16

Name: ORENGE MOGOI LILIAN

Year of Study : 2

Faculty : FACULTY OF AGRICULTURE AND ENVIRONMENTAL STUDIES

Prog. of Study : BACHELOR OF SCIENCE IN FOOD SCIENCE & TECHNOLOGY

Date of Admission : 15-09-16

Date of Graduation : 18-12-20

Course Code	Course Description	Academic Hours	Grade
ANHE 111	Gross Anatomy and Embryology	60.00	C
ANHE 215	Animal Physiology	60.00	D
FOST 211	Food Microbiology I	60.00	B
FOST 221	Principles of Human Nutrition	45.00	B
FOST 232	Fundamentals of food Processing Engineering II	45.00	B
FOST 233	Food Processing Instrumentation	30.00	C
FOST 234	Food Plant Utilities and Services	45.00	B
ZOOL 232	Cell Biology	45.00	C
AGEC 241	Production Economics	45.00	B
AGRI 291	Statistics for Agriculture	45.00	A
BIOC 204	Introductory Biochemistry	15.00	C
FOST 212	Food Microbiology II	60.00	A
FOST 222	Food Chemistry 1	45.00	A
FOST 241	Principles of Food Processing and Preservation	45.00	A
FOST 242	Functional foods and nutraceuticals	45.00	B
ICEN 206	Electrical Engineering	45.00	D
Averages :> Current..:		62.43	Cummulative..: 62.00

RECOMMENDATION:

PASS; PROCEED TO YEAR THREE OF STUDY

Legend:

A - 70-100% - EXCELLENT

B - 60-69% - GOOD

C - 50-59% - SATISFACTORY

D - 40-49% - PASS

F - 0-39% - FAIL

CT- Credit Transfer

- Audited

* - Missing Marks

+ - Retake

Signed

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Reg Number: DB11/28457/16

Name : ORENGE MOGOI LILIAN

Year of Study : 3

Faculty : FACULTY OF AGRICULTURE AND ENVIRONMENTAL STUDIES

Prog. of Study : BACHELOR OF SCIENCE IN FOOD SCIENCE & TECHNOLOGY

Date of Admission : 15-09-16

Date of Graduation : 18-12-20

Course Code	Course Description	Academic Hours	Grade
AGED 331	Rural Sociology	45.00	A
ANSC 333	Animal Nutrition and Livestock Feeding	45.00	B
CHEM 304	Analytical Chemistry	45.00	B
FOST 323	Food Chemistry 11	45.00	B
FOST 335	Unit Operations In Food Processing	52.50	C
FOST 341	Cereals And Root Crop technology	60.00	C
FOST 342	Fruits & Vegetable Technology	45.00	B
FOST 343	Non-Alcoholic Beverages Technology	45.00	B
AGBM 332	Human Resource Management and Industrial Relations	45.00	A
AGRI 391	Agricultural Experimentation	45.00	B
FOST 324	Food Analysis	60.00	A
FOST 336	Food Plant Design and Layout	37.50	A
FOST 344	Sugar Tech and Confectioneries	45.00	B
FOST 345	Edible Fats and Oils Technology	45.00	C
FOST 346	Meat Poultry and Sea Foods Tech	60.00	B
FOST 347	Alcoholic Beverages	45.00	A
FOST 371	Industrial Attachment	60.00	A
Averages : > Current..:		65.79	Cummulative...: 63.00

RECOMMENDATION:

PASS; PROCEED TO YEAR FOUR OF STUDY

Legend:
 A - 70-100% - EXCELLENT
 B - 60-69% - GOOD
 C - 50-59% - SATISFACTORY

 D - 40-49% - PASS
 F - 0-39% - FAIL
 CT - Credit Transfer

 # - Audited
 * - Missing Marks
 + - Retake

Signed

Registrar Academics

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Reg Number: DB11/28457/16

Name: ORENGE MOGOI LILIAN

Year of Study : 4

Faculty : FACULTY OF AGRICULTURE AND ENVIRONMENTAL STUDIES

Prog. of Study : BACHELOR OF SCIENCE IN FOOD SCIENCE & TECHNOLOGY

Date of Admission : 15-09-16

Date of Graduation : 18-12-20

Course Code	Course Description	Academic Hours	Grade
ANHE 426/42	Introduction to Animal Health and Diseases	45.00	D
DATM 456	Dairy Technology	45.00	B
FOST 413	Food Toxicology	45.00	C
FOST 425	Application of Enzymes Technology in Foods	45.00	B
FOST 461	Food Packaging, Storage and Distributions of Foods	45.00	A
FOST 462	Food Plant Operation managements	45.00	C
FOST 463	Food Quality Assurance	45.00	B
FOST 482	Research Projects, Proposal Writing and Seminars	45.00	A
ENSC405	Environmental Impact Assessment	45.00	C
FOST 414	Food Biotechnology	45.00	A
FOST 437	Food Processing Practicals	30.00	B
FOST 464	Product Development & Sensory Evaluation of Foods	45.00	D
FOST 466	Food Entrepreneurship	45.00	C
FOST 481	Food Science and Technology Seminars	45.00	A
FOST 483	Research projects Report Writing and Seminars	45.00	A
FOST465	Sanitation and Waste Management	37.50	A
Averages :> Current..:		61.65	Cummulative...: 63.00

RECOMMENDATION: AWARDED THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE & TECHNOLOGY
WITH SECOND CLASS HONOURS UPPER DIVISION

Legend:

A - 70-100% - EXCELLENT

D - 40-49% - PASS

- Audited

B - 60-69% - GOOD

F - 0-39% - FAIL

* - Missing Marks

C - 50-59% - SATISFACTORY

CT - Credit Transfer

+ - Retake

Signed

Registrar Academics

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The Kenya National Examinations Council



KENYA CERTIFICATE OF SECONDARY EDUCATION

This is to certify that the candidate named below sat for the Kenya Certificate of Secondary Education examination in the subjects shown and attained the grades indicated.



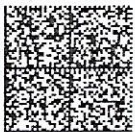
NAME: ORENGE MOGOI LILIAN
NYAKOIBA SECONDARY SCHOOL

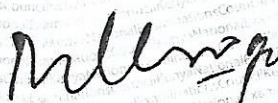
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	SUBJECT
101	ENGLISH
102	KISWAHILI
121	MATHEMATICS
231	BIOLOGY
233	CHEMISTRY
311	HISTORY AND GOVERNMENT
313	CHRISTIAN RELIGIOUS EDUCATION
565	BUSINESS STUDIES

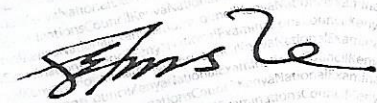
GRADE
B- (MINUS)
B+ (PLUS)
A- (MINUS)
B (PLAIN)
A
B+ (PLUS)
B (PLAIN)
C+ (PLUS)

SUBJECTS NAMED EIGHT MEAN GRADE B+ (PLUS)
EXAMINATION OF YEAR 2015
PRINTED : 161022:09171172




Chief Executive Officer
Kenya National Examinations Council




Chairman
Kenya National Examinations Council

This is a secure document printed using special paper and inks.
Please hold it up to the UV light to verify that the word BARAZA LA MITIHANI and the "ORIGINAL" embedded thread can be seen through the paper.
Not valid without a hologram.

(See overleaf for conditions of issue)

KCSE/ 15 1889027



The Kenya National Examinations Council



KENYA CERTIFICATE OF PRIMARY EDUCATION

KCPE

This is to certify that the candidate named below sat for the **Kenya Certificate of Primary Education** examination and qualified for the award of this certificate. The candidate attained the subject grades shown below.

NAME: ORENGE MOGOI LILIAN
SCHOOL: OMAMA ACADEMY

732241/011
732241

ENGLISH LANGUAGE
KISWAHILI
MATHEMATICS
SCIENCE
SOCIAL STUDIES AND RELIGIOUS EDUCATION

GRADE

B (PLAIN)
C (PLAIN)
B (PLAIN)
C (PLAIN)
C+ (PLUS)

EXAMINATION OF 2010
PRINTED : 110815 : 11530308



Secretary
Kenya National Examinations Council


Chairman
Kenya National Examinations Council

This certificate was issued without any alteration whatsoever. See overleaf for grades and mark intervals.

KCPE /10 0716921





Manufacturing And Distribution Of  Beverages

2nd August, 2019.

TO WHOM IT MAY CONCERN.

SUBJECT: INDUSTRIAL ATTACHMENT-LILLIAN ORENGE

This is to certify that **Lillian Orenge** was with this Company for Industrial Attachment in Manufacturing Department, Quality Assurance Section for three months.

Areas covered.

- Water treatment which includes Primary and secondary water treatment. The various analysis done in water treatment section.
- Syrup preparation which involves, sugar weighing, filtration, concentrates addition and adjustment.
- Laboratory activities, which involves microbiology, beverage brix adjustment, gas volumes, checking of package quality, net content of beverage and equipment calibration.
- Production activities, which include depalletizer, bottle washing, electronic bottle inspection, filling, line monitoring, final beverages making and analysis and general housekeeping.

RECOMMENDATION.

She exhibited great potential and can be resourceful if well mentored and properly placed. We wish her well in all her future endeavours.

Yours faithfully,

ALMASI BOTTLERS LIMITED

A handwritten signature in blue ink, appearing to read 'John A. Basweti', is written over the company name.

JOHN A. BASWETI HR MANAGER (EMPLOYEE RELATIONS, SERVICES & ADMIN)

JAMHURI YA KENYA



REPUBLIC OF KENYA

SERIAL NUMBER 701034702

ID NUMBER 35776123

FULL NAMES
LILIAN MOGOI ORENGE

DATE OF BIRTH
30.12.1998

SEX
FEMALE

DISTRICT OF BIRTH
NYAMACHE

PLACE OF ISSUE
HDM THARAKA NITHI

DATE OF ISSUE
30.03.2018

HOLDER'S SIGN



DISTRICT
NYAMACHE
DIVISION
NYACHEKI
LOCATION
NYACHEKI
SUB-LOCATION
ISENA



PRINCIPAL REGISTRAR'S SIGN

A handwritten signature in black ink, appearing to be 'K. M. M.', written over the printed text 'PRINCIPAL REGISTRAR'S SIGN'.

T0275029622

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9812301F1803301<B035776123J<<1
LILIAN<MOGOI<ORENGE<<<<<<<<<<<