



**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

This is to certify that

Josephat Otieno Odero

*having satisfied all the requirements
for the award of the degree of*

**BACHELOR OF SCIENCE IN
MATHEMATICS AND COMPUTER
SCIENCE**

Second Class Honours (Upper Division)

*was admitted to the degree at a congregation
held at this University*

*on Friday the Seventeenth of November
in the year*

Two Thousand and Seventeen



Vice Chancellor



Deputy Vice Chancellor
(Academic Affairs)



173242

JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY

UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student:	OTIENO Surname	JOSEPHAT Other Names	Registration No.	SC200-1085/2013
School:	Mathematical Sciences			
Course:	Bachelor of Science in Mathematics and Computer Science			
Date of Admission:	September 2013	Academic Year:	2016/2017	
Year of Study	Fourth			

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
ICS 2201	Object Oriented Programming II	1	D
ICS 2202	Operating Systems I	1	C
ICS 2203	Internet Application Programming	1	C
ICS 2206	Database Systems	1	A
ICS 2208	Operating Systems II	1	B
ICS 2306	Computer Networks	1	B
SMA 2400	Partial Differential Equations I	1	A
HRD 2401	Entrepreneurship Skills	1	C
SMA 2401	Topology I	1	A
SMA 2404	Field Theory	1	A
SMA 2407	Functional Analysis	1	A
ICS 2408	Selected Advanced Topics in Computer Science	1	E
SMA 2409	Algebraic Number Theory	1	A

Recommendation

PASS: Awarded the Degree of Bachelor of Science in Mathematics' and Computer Science SECOND CLASS HONOURS (UPPER DIVISION)

Key to Grading System

- | | |
|-------------------|---------------|
| A = 70 - 100 % | -Excellent |
| B = 60 -69 % | -Good |
| C = 50 - 59% | -Satisfactory |
| D = 40 - 49 % | -Pass |
| E = 39% and below | -Fail |

Signed:

NB: 1 Unit consists of 35 lecture hours equivalent:

(3 Practical hours or 2 tutorial hours are equivalent to 1 lecture hour)

Signe

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..... P.O. Box 02000-00200 NH

*This transcript is issued without any erasures or alterations.





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**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY
UNDERGRADUATE ACADEMIC TRANSCRIPT***

Name of Student:	OTIENO O. JOSEPHAT	Registration No.	SC200-1085/2013
Surname	Other Names		
School:	Mathematical Sciences		
Course:	Bachelor of Science in Mathematics and Computer Science		
Date of Admission:	September 2013	Academic Year:	2015/2016
Year of Study	Third		

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
ICS 2104	Object Oriented Programming I	1	B
ICS 2105	Data Structures and Algorithms	1	C
ICS 2207	Scientific Computing	1	C
SMA 2300	Calculus IV	1	C
SMA 2301	Real Analysis I	1	A
SMA 2303	Group Theory I	1	A
SMA 2304	Ordinary Differential Equations I	1	B
SMA 2305	Complex Analysis I	1	A
SMA 2306	Linear Algebra II	1	A
SMA 2307	Ring Theory	1	A
STA 2314	Operations Research I	1	B
SMA 2320	Analytical Applied Mathematics I	1	A
ICS 2342	Systems Development	1	B

Recommendation

PASS: Proceed to Fourth Year of Study

Key to Grading System

A = 70 - 100 % -Excellent

B = 60 -69 % -Good

C = 50 - 59% -Satisfactory

D = 40 - 49 % -Pass

E = 39% and below -Fail

Signed:

Dean

Date Issued:

05 SEP 2016

JKUAT

P.O. Box 62000-00200, Nairobi
www.jkuat.ac.ke

NB: 1 Unit consists of 35 lecture hours equivalent:

(3 Practical hours or 2 tutorial hours are equivalent to 1 lecture hour)

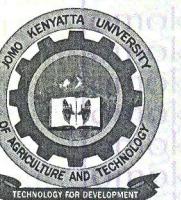
Signed

Registrar

Date Issued



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30961

**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

Name of Student:	OTIENO, Surname	O. Josephat Other Names	Registration No.	SC200-1085/2013
Faculty:	School of Physical Sciences			
Course:	Bachelor of Science			
Date of Admission:	September 2013		Academic Year:	2014/2015
Year of Study	Second			

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
ICS 2100	Introduction to Computer Systems	1	B
ICS 2101	Computer Organization	1	D
ICS 2102	Introduction to Computer Programming	1	A
SMA 2200	Calculus III	1	C
SPH 2200	Mechanics II	1	A
STA 2200	Probability and Statistics II	1	D
SPH 2201	Electricity and Magnetism II	1	C
SMA 2201	Linear Algebra I	1	B
STA 2201	Probability and Statistics III	1	D
SPH 2202	Thermal Physics I	1	B
SMA 2202	Algebraic Structures	1	A
SMA 2203	Number Theory	1	B
SPH 2203	Modern Physics	1	C
SMA 2220	Vector Analysis	1	B
SMA 2221	Classical Mechanics	1	C

Recommendation

Recommendation

Key to Grading System

- | | |
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| C = 50 - 59 % | -Satisfactory |
| D = 40 - 49 % | -Pass |
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Signed:

Dean SPS

Date Issued:

27 JAN 2016 * Thi

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IB: 1 Unit consists of 35 lecture hours equivalent:

3 Practical hours of 2 tutorial hours are equivalent
to 1 lecture hour)

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REGISTRY REGISTRATION
Registrar
Date Issued 03 FEB 2016

Date Issued 03 FEB

Date issued 13 FEB 2016

EXAMINATIONS



107508

**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**
UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student: OTIENO..... O. Josephat..... Registration No. SC200-1085/2013
 Surname Other Names
 Faculty SCIENCE
 Course: Bachelor of Science
 Date of Admission: September 2013 Academic Year: 2013/2014
 Year of Study First

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
SCH 2100	Atomic Structure	1	B
STA 2100	Probability and Statistics I	1	C
SPH 2100	Mechanics I	1	A
SMA 2100	Discrete Mathematics	1	C
SPH 2101	Electricity and Magnetism I	1	B
HRD 2101	Communication Skills	1	A
SMA 2101	Calculus I	1	B
SCH 2101	Chemical Bonding and Structure	1	C
SMA 2102	Calculus II	1	C
SPH 2102	Geometrical Optics	1	A
SCH 2102	Physical Chemistry I	1	C
HRD 2102	Development Studies and Social Ethics	1	B
SPH 2103	Waves and Vibrations	1	C
SCH 2103	Organic Chemistry I	1	C
SMA 2104	Mathematics for Sciences	1	D
SZL 2111	HIV/AIDS	1	B

Recommendation

PASS: Proceed to Second Year of Study

Key to Grading System

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- C = 50 - 59% -Satisfactory
- D = 40 - 49 % -Pass
- E = 39% and below -Fail

Signed:

Dean

Reindeer

Date Issued:

11 FEB 2015

NB: 1 Unit consists of 35 lecture hours equivalent:
 (3 Practical hours of 2 tutorial hours are equivalent
 to 1 lecture hour)

Signed

Date Issued



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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 named below.



03 THE CANDIDATE ATTAINED THE GRADE SHOWN IN THE SUBJECTS NAMED
NAME: OTIENS O JOSEPHAT
SCHOOL: BUKHALALIRE SECONDARY SCHOOL
101 ENGLISH
102 KISWAHILI
103 MATHEMATICS
104 PHYSICS
105 CHEMISTRY
106 GEOGRAPHY
107 BUSINESS STUDIES
108 COMPUTER SCIENCE
SUBJECTS NAMED EIGHT

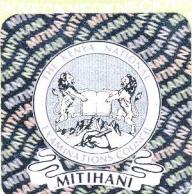
GRADE

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

MEAN GRADE B+ (PLUS)

EXAMINATION OF NOVEMBER/DECEMBER 2012

PRINTED : 130924 : 052247



Secretary

Kenya National Examinations Council

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

(See overleaf for conditions of issue)

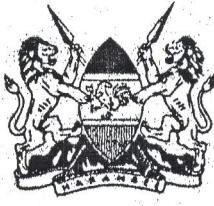
Chairman

Kenya National Examinations Council

KCSE / 12 0290658



0295475



ED/B 100 (Rev.)

REPUBLIC OF KENYA

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

KENYA SECONDARY SCHOOL LEAVING
CERTIFICATE

BUKHALALIRE HIGH SCHOOL

P.O. BOX 76, BUMALA-BUSIA (K)

Admission/Serial No. 1575

THIS IS TO CERTIFY THAT OTIENO O. JOSEPHAT

entered this school on 13th SEPT. 2010 and was enrolled in

Form TWO, and left on 20th NOV. 2012 from

Form FOUR having satisfactorily completed the approved course for Form FOUR

Date of Birth (in Admission Register) 16th JAN. 1993

Headteacher's report on the pupil's ability, industry and conduct

He is an industrious, disciplined and well focussed

academically. He was able class prefect and played

Volleyball up to regional level.

Pupil's Signature

Date of Issue 12th August 2013

BUKHALALIRE SECONDARY SCHOOL
P.O. BOX 76
BUMALA-BUSIA (K)

Signature

Headteacher

