# MASINDE MULIRO UNIVERSITY
# OF
# SCIENCE AND TECHNOLOGY

This is to certify that

*Obonyo Ishmael Nyunga*

having satisfied the requirements
for the award of the degree of

## BACHELOR OF SCIENCE IN
## COMPUTER SCIENCE

*Second Class Honours (Upper Division)*

was admitted to the degree at a congregation held
at this University
on the Sixth Day of November
in the Year of Two Thousand and Nine

**Vice-Chancellor**

**Deputy Vice-Chancellor**
**(Academic Affairs)**

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
## (MMUST)

## UNDERGRADUATE ACADEMIC TRANSCRIPT

**NAME OF STUDENT:** OBONYO NYUNYA ISMAEL  **REG. NO.** COM/0031/05

SURNAME   OTHER   NAMES

**FACULTY:** SCIENCE

**DEGREE PROGRAMME:** B. Sc IN COMPUTER SCIENCE

**ACADEMIC YEAR:** 2008/2009   **YEAR OF STUDY:** FOURTH YEAR

| COURSE CODE | DESCRIPTIVE TITLE OF COURSE | UNITS | MARKS | GRADES |
|---|---|---|---|---|
| COM 410 | USER INTERFACE DESIGN | 3 | 82 | A |
| COM 413 | OBJECT ORIENTED PROGRAMMING | 3 | 82 | A |
| COM 415 | HUMAN FACTORS IN COMPUTER AND INFORMATION SYSTEMS | 3 | 72 | A |
| COM 419 | COMPUTER SYSTEM DESIGN | 3 | 73 | A |
| COM 408 E | SOFTWARE METRICS AND MEASUREMENTS | 3 | 68 | B |
| COM 409 E | DISTRIBUTED SYSTEMS | 3 | 63 | B |
| COM 417 E | COMPUTER GRAPHICS | 3 | 70 | A |
| COM 418 E | EXPERT SYSTEMS * | 3 | 76 | A |
| COM 432E | DESIGN TECHNOLOGY FOR WEBSITES | 3 | 63 | B |
| COM 421 | ENGINEERING AND SOFTWARE LAW | 3 | 68 | B |
| COM 422 | ELECTRICAL CIRCUITS AND MICROPROCESSORS | 3 | 76 | A |
| COM 423 | COMPUTER SCIENCE PROJECT II | 3 | 70 | A |
| COM 426 | SIMULATION AND MODELLING | 3 | 75 | A |
| COM424 E | NEURAL NETWORKS | 3 | 73 | A |
| COM 425 E | ADVANCED ARTIFICIAL INTERLIGENCE | 3 | 73 | A |
| COM 431 E | HUMAN-COMPUTER INTERFACE DESIGN | 3 | 87 | A |

TOTAL NUMBER OF COURSES TAKEN  16  ( SIXTEEN )

TOTAL NUMBER OF UNITS  48  ( FORTY EIGHT )

**RESULT: PASS**

### KEY TO GRADING SYSTEM

| | |
|---|---|
| 70% and above | A (Excellent) |
| 60% – 69% | B (Good) |
| 50% - 59% | C (Average) |
| 40% - 49% | D (Pass) |
| 39% and Below | E (Fail) |

**EXPLANATION OF COURSE CODES**
100 – 600 – Undergraduate Courses

**OTHER KEYS**
* - Passed after Supplementary Examination
E – Elective Course

**NOTE:** A Semester is a period of 16 weeks
A Unit of study is one hour lecture per week per semester or two hours of tutorials/seminars per week per semester or three hours of practical per week per semester.

Registrar (AA)
MASINDE MULIRO UNIVERSITY
OF SCIENCE & TECHNOLOGY
P.O. Box 190 - 50100 Kakamega.
Registrar (Academic Affairs)

**SIGNED:** _____  **DATE:** 4-11-2009

Telephone: (056) 31375
Fax No: (056) 30153
E-mail:mmust@wust.ac.ke

P.O. Box 190
KAKAMEGA, 50100
Kenya

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

## UNDERGRADUATE ACADEMIC TRANSCRIPT

NAME OF STUDENT: OBONYO _____ Ismael Nyunya _____ REG. NO. COM/0031/05

                  **SURNAME**          **OTHER NAMES**

FACULTY: _____ SCIENCE _____

DEGREE PROGRAMME: BACHELOR OF SCIENCE IN COMPUTER SCIENCE _____

ACADEMIC YEAR: _____ 2007/2008 _____ YEAR OF STUDY: THIRD

| COURSE CODE | DESCRIPTIVE TITLE OF COURSE | UNITS | MARKS | GRADES |
|---|---|---|---|---|
| COM 310 | COMPUTER ARCHITECTURE | 3 | 57 | C |
| COM 312 | SOFTWARE ENGINEERING II | 3 | 69 | B |
| COM 315 | ALGORITHMS | 3 | 65 | B |
| COM 330 | INTERNET HYPER TEXT MARK-UP LANGUAGE | 3 | 65 | B |
| COM 311 | COMPUTER SCIENCE PROJECT I | 6 | 62 | B |
| COM 313 | ELECTRONICS II | 3 | 54 | C |
| COM 317E | DATA COMMUNICATION & COMPUTER NETWORK | 3 | 73 | A |
| COM 318E | DATABASE SYSTEMS | 3 | 60 | B |
| COM 319E | ARTIFICIAL INTELIGENCE | 3 | 54 | C |
| COM 320 | DIGITAL SYSTEM DESIGN | 3 | 47 | D |
| COM 321 | COMPILER DESIGN | 3 | 55 | C |
| COM 326 | SOFTWARE DEVELOPMENT | 3 | 58 | C |
| COM 323E | INFORMATION SYSTEMS SECURITY | 3 | 71 | A |
| COM 322E | OPERATIONS RESEARCH | 3 | 63 | B |

TOTAL NUMBER OF COURSES TAKEN [ 14 ] ( FOURTEEN )

TOTAL NUMBER OF UNITS [ 45 ] ( FORTY-FIVE )

RESULT: PASS: PROCEED TO FOURTH YEAR OF STUDY

**KEY TO GRADING SYSTEM**

| | |
|---|---|
| 70% and above | A (Excellent) |
| 60% – 69% | B (Good) |
| 50% - 59% | C (Average) |
| 40% - 49% | D (Pass) |
| 39% and Below | F (Fail) |

**EXPLANATION OF COURSE CODES**
100 – 600 – Undergraduate Courses

**OTHER KEYS**
* - Passed after Supplementary Examination
E – Elective Course

NOTE: A Semester is a period of 16 weeks
A Unit study is one hour lecture per week per semester or two
hours of tutorials/seminars per week per semester or three
hours of practical per week per semester.

SIGNED: _____ Registrar (AA)
MASINDE MULIRO UNIVERSITY
OF SCIENCE & TECHNOLOGY
Registrar (Academic Affairs)
P. O. Box 190 - 50100 Kakamega.

DATE: 13 - 1 - 2009

# MASINDE MULIRO UNIVERSITYOF SCIENCE AND TECHNOLOGY
## (MMUST)
## UNDERGRADUATE ACADEMIC TRANSCRIPT

NAME OF STUDENT: OBONYO        Ismael  Nyunya.        REG. NO. COM/0031/05
                 SURNAME          OTHER NAMES

FACULTY:        SCIENCE AND ENGINEERING

DEGREE PROGRAMME: BACHELOR OF SCIENCE INCOMPUTER SCIENCE

ACADEMIC YEAR:        2006/2007        YEAR OF STUDY: SECOND YEAR

| COURSE CODE | DESCRIPTIVE  TITLE OF COURSE | UNITS | MARKS | GRADES |
|---|---|---|---|---|
| COM 210 | PROCEDURAL PROGRAMMING II | 3 | 59 | C |
| COM 211 | SYSTEM   SOFTWARE | 3 | 64 | B |
| COM 216 | INTERNET FUNDAMENTALS | 3 | 76 | A |
| PHY 210 | ELECTRICITY AND MAGNETISM | 3 | 67 | B |
| COM 212 | DIGITAL ELECTRONICS I | 3 | 73 | A |
| COM 215 | ELECTRICAL CIRCUITS | 3 | 74 | A |
| COM 217 | ELECTRONICS I | 3 | 66 | B |
| COM 220 | SOFTWARE ENGINEERING I | 3 | 65 | B |
| COM 221 | COMPUTER ORGANIZATION | 3 | 63 | B |
| COM 222 | INTERNET APPLICATIONS | 3 | 73 | A |
| COM 223 | OPERATING SYSTEMS & NETWORK | 3 | 68 | B |
| COM 224 | DATA  STRUCTURES | 3 | 68 | B |
| STA 205 | STATISTICS  AND  PROBABILITY | 3 | 53 | C |

TOTAL NUMBER OF COURSES TAKEN   13   [ THIRTEEN ]

TOTAL NUMBER OF UNITS   39   [ THIRTY   NINE ]

RESULT: PASS: PROCEED TO THIRD YEAR OF STUDY.

## KEY TO GRADING SYSTEM
70% and above A (Excellent)
60% – 69%    B (Good)
50% - 59%    C (Average)
40% - 49%    D (Pass)
39% and Below  E (Fail)

NOTE:   A Semester is a period of 16 weeks
        A Unit study is one hour lecture per week per semester or two hours
        of tutorials/seminars per week per semester or three hours of
        practical per week per semester

### EXPLANATION OF COURSE CODES
100 – 600 – Undergraduate Courses

### OTHER KEYS
* - Passed after Supplementary Examination

E – Elective Course

SIGNED: _____        SIGNED: _____
    Dean of Faculty              Registrar (Academic Affairs)

DATE   29/11/07        DATE _____

SUPP.

# WESTERN UNIVERSITY COLLEGE
## OF SCIENCE AND TECHNOLOGY (WUCST)

*(A Constituent College of Moi University)*

Telephone: (056) 31375
Fax No: (056) 30153
E-Mail: wucst@africaonline.co.ke

P.O. Box 190
KAKAMEGA, 50100
Kenya

**Technology for Development**

## UNDERGRADUATE ACADEMIC TRANSCRIPT

**NAME OF STUDENT:** OBONYO     Ishmael Nyunya     **REG. NO:** COM/0031/05
       SURNAME        OTHER NAMES

**FACULTY:** SCIENCE AND ENGINEERING

**DEGREE PROGRAMME:** BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**ACADEMIC YEAR:** 2005/2006       **YEAR OF STUDY:** FIRST YEAR

| COURSE CODE | DESCRIPTIVE TITLE OF COURSE | UNITS | MARKS | GRADES |
|---|---|---|---|---|
| COM 111 | COMPUTER APPLICATION I | 3 | 77 | A |
| COM 113 | MATHEMATICS FOR COMPUTER SCIENCE I | 3 | 65 | B |
| COM 110 | INTRODUCTION TO COMPUTERS & COMPUTING | 3 | 87 | A |
| PHY 110 | BASIC PHYSICS I | 4 | 60 | B |
| MAT 110 | BASIC CALCULUS | 3 | 66 | B |
| IRD 100 | COMMUNICATION SKILLS I | 3 | 67 | B |
| IRD 10I | QUANTITATIVE SKILLS I | 3 | 61 | B |
| IRD 103 | DEVELOPMENT CONCEPTS AND APPLICATIONS | 3 | 60 | B |
| COM 120 | SYSTEM HARDWARE | 3 | 70 | A |
| COM 121 | PROCEDURAL PROGRAMMING I | 3 | 65 | B |
| COM 123 | MATHEMATICS FOR COMPUTER SCIENCE II | 3 | 69 | B |
| IRD 104 | QUANTITATIVE SKILLS II | 3 | 70 | A |
| PHY 111 | BASIC PHYSICS II | 4 | 71 | A |
| MAT 111 | GEOMETRY & ELEMENTS OF APPLIED MATHEMATICS | 3 | 68 | B |
| IRD 102 | COMMUNICATION SKILLS II | 3 | 51 | C |

TOTAL NUMBER OF COURSES TAKEN   15   [ FIFTEEN ]

TOTAL NUMBER OF UNITS   47   [ FORTY -SEVEN ]

**RESULT: PASS: PROCEED TO SECOND YEAR OF STUDY.**

### KEY TO GRADING SYSTEM
| | |
|---|---|
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| 50% - 59% | C (Average) |
| 40% - 49% | D (Pass) |
| 39% and Below | E (Fail) |

**NOTE:** A Semester is a period of 16 weeks
A Unit study is one hour lecture per week per semester or two hours
of tutorials/seminars per week per semester or three hours of
practical per week per semester.

### EXPLANATION OF COURSE CODES
100 – 600 – Undergraduate Courses

### OTHER KEYS
* - Passed after Supplementary Examination
E – Elective Course

DEAN
SIGNED: FACULTY OF SCIENCE & ENGINEERING   SIGNED: REGISTRAR ACADEMIC
    Dean of Faculty        Registrar (Academic Affairs)

WUCST

DATE: 11/04/07       DATE: 26 - 4 - 2007