



**JOMO KENYATTA UNIVERSITY OF
AGRICULTURE AND TECHNOLOGY**

**INSTITUTE OF COMPUTER SCIENCE AND
INFORMATION TECHNOLOGY (ICSIT)**

REGULATIONS AND SYLLABUS

**FOR
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

Revised April 2006

A. GENERAL REGULATIONS

ICS-IT-1

- 1.1 No student shall be registered for the Degree of Bachelor of Science in Information Technology without satisfying the minimum University entry requirements.
- 1.2 Applicants should note that this is a MINIMUM requirement and this does not guarantee an applicant automatic admission into the degree of Bachelor of Science in Information Technology.

B. ENTRY REQUIREMENTS

ICS-IT-2

- 2.1 To be eligible for admission into the B.Sc in Information Technology stage I, a candidate must satisfy any one of the following academic qualifications:
 - 2.1.1 Must have an aggregate grade of C+ (C PLUS) in K.C.S.E. (or equivalent examination) and a minimum grade of C in Mathematics and English.
 - 2.1.2 Must have TWO Principal passes in 'A' level/Kenya Advanced Certificate of Education (KACE).
 - 2.1.3 Must have a pass in Diploma in Management and Information Technology, or Diploma in Information Technology, or Diploma in Computer technology of JKUAT.
 - 2.1.4 Any other equivalent qualifications approved by Senate as equivalent to 2.1.1, 2.1.2, 2.1.3 or 2.1.4 above.
- 2.2 To be eligible for admission into the B.Sc in Information Technology stage II, a candidate must satisfy any one of the following:
 - 2.2.1 Must have Diploma in Management and Information Technology or Diploma in Information Technology of JKUAT with a credit or any other qualification recognized by the University Senate

C. DURATION AND PATTERN OF THE COURSE

ICS-IT-3

- 3.1 The B Sc in Information Technology course shall be offered in THREE (3) stages; Stage I comprising TWENTY-FIVE (25) units, Stage II comprising TWENTY-FOUR (24) units and Stage III comprising SIXTEEN (16) units. There shall be an attachment of EIGHT (8) weeks at the end of Stage I and at the end of Stage III.

- 3.2 Courses shall be offered in terms of units, one unit being defined as a series of 35 one-hour lectures. For this purpose a one-hour lecture is equivalent to a two-hour tutorial or a three-hour practical period, or an equivalent amount of other assigned study or practical experience or any combination of these that may be approved by the Senate.

ICS-IT-4

- 4.1 To qualify for the award of the Degree of Bachelor of Science in Information Technology a candidate shall have completed study for the Degree extending over a period of not less than THREE stages (4 academic years) and not more than FIVE stages (6 academic years)

ICS-IT-5

- 5.1 In ALL the stages of study admission for a specific unit shall be subject to the student meeting the institutes requirements.
- 5.2 Each student shall be required to take a combination of units as defined in ICS-IT-3 and in accordance with ICS-IT-6, 7 and 8.

ICS-IT-6 Stage I, II, and III of Study

- 6.1 In Stage I, a student shall be required to take a minimum of TWENTY-FIVE (25) units distributed as follows:
- 6.1 .1 Three University Units
HRD 2101 Communication Skills
HRD 2102 Development Studies
SZL 2111 HIV/AIDS
- 6.1.2 Twenty-two Institute and departmental units.
- 6.2 In Stage II, an approved combination of units in any one stage shall have a minimum of TWENTY-FOUR (24) required units, as prescribed in the course outline, plus any additional units if desired, as provided for in ICS-IT- 5.1 and 5.2.
- 6.3 In Stage III, an approved combination of units in any one stage shall have a minimum of SIXTEEN (16) required units, as prescribed in the course outline, plus any additional units if desired, as provided for in ICS-IT- 5.1 and 5.3.
- 6.4 Each registered student will undertake an industrial attachment during the period following the end of Stages I and II. Each attachment session will be not less than 8 weeks, being equivalent to ONE unit, and shall be subject to the general regulations for practical training and industrial attachment.
- 6.5 Each student shall be required to take a Project, in stage III, being an equivalent of two units.

D. REGISTRATION

ICS-IT-7

- 7.1 No registration of students or modification of required or additional units shall be allowed after week 3 of the semester.
- 7.2 A student who does not register for a particular unit but who completes the course work and who sits for the examination in that unit will be deregistered.

E. EXAMINATIONS

E.1 ORDINARY EXAMINATIONS

ICS-IT-8

- 8.1 Examinations shall be moderated and approved by the University.
- 8.2 Examinations shall be conducted either at an approved Centre or at the University and in both cases shall be supervised by the University.
- 8.3 **EXAMINATIONS STRUCTURE**
 - 8.3.1 All units shall be examined during the semester in which they are taken. Such examinations shall be named ordinary examinations.
 - 8.3.2 Examinations shall consist of continuous assessments and University Examinations.
 - 8.3.3 Continuous assessments shall normally comprise practicals, tests and assignments.
 - 8.3.4 Continuous assessments shall contribute 30% and written University Examinations shall contribute 70% of the marks; except that where a unit consists solely of practical work, it shall be assessed out of 100% by continuous assessment.
 - 8.3.5 A student who has not completed two thirds of the coursework for any unit shall have his/her ordinary examination results nullified and shall be deemed to have failed in the unit with a total mark of zero. Such a student shall be required to repeat the unit(s).
- 8.4 The University Examinations shall consist of written papers covering each unit completed. The time allowed shall be 2 hours per unit.
- 8.5 Each unit shall be graded out of 100% and the pass mark shall be 40%. The marks shall be translated into letter grades as follows:-

70% and above A

60% and below 70%	B
50% and below 60%	C
40% and below 50%	D
Below 40%	E

- 8.6 Subject to the provisions of ICS-IT-11 a student who absents himself/herself from a University Examination for any unit shall be deemed to have failed in the unit, with a total mark of zero.
- 8.7 Industrial attachment shall be assessed and graded on PASS or FAIL basis.

E.2 PROGRESS TO NEXT STAGE OF STUDY

ICS-IT-9

A candidate shall not be allowed to proceed to the next stage without passing preceding stage. However, a student who fails in industrial attachment in first and /or third stage will be allowed to proceed but must satisfy ICS-IT-18.2

E.3 SUPPLEMENTARY EXAMINATIONS

ICS-IT-10

- 10.1 A candidate who fails in not more than SIX (6) units in Stage I or Stage II or not more than FOUR (4) in Stage III shall be required to sit for supplementary examination(s) in the failed Unit(s).
- 10.2 A candidate who fails in the Project may be allowed to repeat the project not more than once and submit it as a supplementary within a period not exceeding three months from the date of release of results. The maximum marks for a resubmitted project will be 40%. A candidate who fails will be subject to ICS-IT-12.3. Any candidate who fails to submit be project within this period will be considered to have deserted the degree and will be deregistered.
- 10.3 The maximum marks in supplementary examinations shall be 40% and shall not include continuous assessment marks.
- 10.4 Subject to ICS-IT 12.1 a candidate who fails in the repeating stage shall be required to sit for supplementary in the failed units.
- 10.5 Subject to the provisions of ICS-IT-11 a student who absents himself/herself from any/all supplementary examinations he/she was required to sit shall be assumed to have deserted the degree course and shall be de-registered forthwith.

E.4 SPECIAL EXAMINATIONS

ICS-IT-11

If through unavoidable circumstances such as bereavement or sickness a candidate is unable to sit for one or more examination papers; or is unable to undertake essential parts of the work for continuous assessment he/she may, on the recommendation of the Institute of Computer Science and Information Technology, and with the approval of the Senate, be permitted to take special examinations, or undertake extra work for continuous assessment. Special examinations shall normally be scored out of 100% and shall include continuous assessment.

E.5 REPEATING

ICS-IT-12

- 12.1 A candidate who fails in SEVEN (7) or EIGHT (8) units in Stage I and II or FIVE (5) units in Stage III at the ordinary examinations shall be required to repeat the stage.
- 12.2 Subject to ICS-IT-14, a candidate who fails to satisfy ICS-IT-10 even after taking supplementary examinations shall be required to repeat the failed unit (s) externally. He/she shall be required to retake the examination(s) in the failed unit(s) during the next time the unit(s) is (are) offered at the ordinary examination. Such a candidate shall be required to register for the examination in every failed unit during the first three weeks of the semester.

A candidate, who has registered for the examination in any failed unit, may be allowed to attend lectures for the failed unit and to utilize other facilities upon making appropriate arrangements subject to ICS-IT-21. However no marks shall be awarded for any continuous assessment taken. Such a candidate shall be deemed to be repeating the concerned year of study.

- 12.3 No candidate shall be allowed to repeat any stage more than once.
- 12.4 No candidate shall be allowed to repeat more than twice during the course of study.

E.6 STAYING OUT

ICS-IT-13

- 13.1 Subject to the approval of the University Senate a newly admitted student who for some good cause is unable to register in the first stage of study may be allowed to defer his/her admission for one or two complete academic years, and to be admitted to the first stage at the start of the following academic year or of the academic year immediately thereafter. Such a student shall not be deemed to have repeated.

- 13.2 Subject to the approval of the University Senate a continuing student who for some good cause is unable to register in any stage may be allowed to stay out of the University for a period of one or two complete academic years, and to resume study at the start of the following stage or of the stage immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless e/she had already been required to repeat that stage.
- 13.3 Subject to the approval of the University Senate a student who has registered and who for some good cause is unable to complete the course work for any stage may be permitted to register for the same stage as a readmitted student at the start of the following stage or of the stage immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless he/she had already been required to repeat that stage.

E.7 DISCONTINUATION

ICS-IT-14

- 14.1 A candidate who fails in nine (9) or more units in stage I and II or six (6) or more units in stage III shall be discontinued.
- 14.2 A repeating candidate who fails in a resubmitted Computer System Project shall be discontinued.
- 14.3 A candidate who fails in any supplementary examinations after repeating shall be discontinued.

E.8 APPEAL FOR REASSESSMENT

ICS-IT-15

A student who is not satisfied with the grade which he/she has been awarded in any unit may appeal to the Registrar (Academic) for a re-marking of the written examination paper in that unit upon payment of the appropriate fee which the University Senate shall determine from time to time. The grade and mark recommended by the examiner(s) shall be the final grade and mark awarded to the student for the unit. No appeal for re-marking of any unit shall be entertained in cases where the appeal has been submitted later than one month after the student has been notified of the result.

E.9 DEREGISTRATION

ICS-IT-16

- 16.1 Subject to ICS-IT-13 (13.1) and (13.2) a student who has qualified to register for any

year of study but who has failed to register by the end of week four of the first semester shall be assumed to have deserted from the degree course and shall be deregistered forthwith.

- 16.2 Subject to ICS-IT-13 (13.3) a student who has registered for a particular semester but who has failed to complete at least two thirds of the continuous assessments in all the units in which he/she has registered shall be assumed to have deserted from the degree course and shall be de-registered forthwith.
- 16.3 Subject to the provisions of ICS-IT-11, a student who absents himself/herself from a supplementary examinations that he/she was required to sit for in any semester shall be assumed to have deserted from the degree course, and shall be deregistered forthwith.

E.10 EXAMINATION IRREGULARITIES

ICS-IT-17

- 17.1 A candidate who has been involved in an examination irregularity will have his/her examination results withheld until a verdict is arrived at by the university disciplinary Committee.
- 17.2 A student who is found to be guilty of any irregularities during any continuous assessment or University examination shall be subject to the appropriate penalties as detailed in the University document on examination irregularities as per the University Examination Regulations and shall not proceed until the case is dispensed.

E.11 CERTIFICATION AND AWARD

ICS-IT-18

- 18.1 Upon written request and approval by the University Senate, a candidate may be considered for the award of the Diploma in Information Technology provided that such a candidate will have taken and passed in all the twenty-five (25) required units in Stage I and Eight (8) weeks industrial attachment.
- 18.2 To be considered for the award of the Degree, a candidate who has joined at stage I must have taken and passed in all the sixty two (62) required units in Stage I, II and III , the three University units and in both units of industrial attachment . HOWEVER, a candidate who joins at stage II must have taken and passed all the forty (40) required units in stage II and III , the three University units and in industrial attachment.
- 18.3 A candidate who qualifies for the award of the Diploma shall be placed in one of the three classes as follows:-
- i) Distinction
 - ii) Credit
 - iii) Pass

18.4 A candidate who qualifies for the award of the Degree shall be placed in one of the three classes as follows:-

- (i) First Class Honours
- (ii) Second Class Honours (Upper Division)
- (iii) Second Class Honours (Lower Division)
- (iv) Pass

18.5 No candidate with the overall average mark, as defined in ICS-IT-19, of less than 40% shall be awarded the Degree.

E.12 CLASSIFICATION

ICS-IT-19

19.1 Subject to the provision of ICS-IT-18.1 the final classification of the Diploma shall be based on the average mark for all the required twenty-five (25) units taken in Stage I. Additional units shall not be considered for the classification of the diploma.

The Diploma shall be graded as follows:-

- | | | |
|-------|-------------|------------------------|
| (i) | Distinction | 70% or above. |
| (ii) | Credit | 56% but less than 70%. |
| (iii) | Pass | 40% but less than 56%. |
| (iv) | Fail | below 40% |

19.2 Subject to the provision of ICS-IT-20 the final classification of the Degree shall be based on the average mark for all the required sixty two (62) units taken in Stage I, II and III. Additional units shall not be considered for the classification of the degree.

The Degree shall be graded as follows:-

- | | |
|---------------------------------------|-------------------------|
| First Class Honours | 70% or above. |
| Second Class Honours (Upper Division) | 60% but less than 70%. |
| Second Class Honours (Lower Division) | 50% but less than 60%. |
| Pass | 40% but less than 50 %. |

ICS-IT-20

A candidate who has repeated any Stage of study shall not be eligible for the award of the degree with Honours.

F. FEES

ICS-IT-21

21.1 Notwithstanding any of ICS-IT-1 to ICS-IT-20 above, registration of a student for the BSc in Information Technology, sitting for examination, release of results and awarding of the Diploma or Degree shall be subject to the student fulfilling all University regulations concerning payment of fees and other monies due.