



UNIVERSITY OF NAIROBI
COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES
FACULTY OF AGRICULTURE
DEPARTMENT OF PLANT SCIENCE AND CROP PROTECTION

POSTGRADUATE STUDENTS' INFORMATION FOR ODL DELIVERY
2016/2017 ACADEMIC YEAR

Course Work Units

Course work units for M.Sc. in Plant Breeding and Biotechnology (each 45 contact hours)			
First Semester		Second Semester	
1	ACS 600 Biometrics for Agricultural sciences	7	ACB 601 Molecular Genetics and Bioinformatics
2	ACP 612 Research Methods and Scientific Communication	8	ACS 603 Crop Pest Management
3	ACS 601: Advanced Plant Physiology & Metabolism	9	ACB 603 Biometrical Genetics
4	ACB 602: Biotechnology, Cytogenetics and Mutation	10	ACB 605 Breeding East African Crops
5	ACS 604: Seed Science and Technology	11	ACB 606 Breeding for Biotic and Abiotic Stresses
6	ACB 604: Advanced Plant Breeding	12	ACP 610: Entrepreneurship in Agriculture
Course work units for M.Sc. in Seed Technology and Business Management (each 45 contact hours)			
First Semester		Second Semester	
1	ACS 600 Biometrics for Agricultural sciences	7	ASB603: Plant Variety Testing, Protection & Maintenance
2	ACP 612 Research Methods and Scientific Communication	8	ACS 603 Crop Pest Management
3	ASB601 Seed Production Management	9	ASB605: Seed Business Management
4	ASB602 Seed Harvesting, Processing & Storage	10	ASB606: Seed Quality Assurance & Certification
5	ACS 602: Crop Biotechnology & Crop Improvement	11	ASB607: Seed Legislation & Accreditation
6	ASB604 Economics and Marketing	12	ACP 610: Entrepreneurship in Agriculture
Course work units for M.Sc. in Agronomy (each 45 contact hours)			
First Semester		Second Semester	
1	ACS 600 Biometrics for Agricultural sciences	7	ACS 601 Agromet and Climate Change in Crop Production
2	ACP 612 Research Methods and Scientific Communication	8	ACB 602 Agro-ecosystem Analysis
3	ACS 601 Advanced Plant Physiology and Metabolism	9	ACS 603 Crop Pest Management
4	ACS 602: Crop Biotechnology & Crop Improvement	10	ACA 603 Crop and Forage Production Systems
5	ACS 604: Seed Science and Technology	11	ACA 604 Eco-Efficient Bio-resource Management
6	ALM610 Remote sensing and GIS	12	ACS 605 Plant Nutrition and Soil Fertility

MSc Crop Protection Course Units and Respective Teaching Staff - (each course unit 45 contact hours)				
Semester I		Lecturer in-charge		
1	ACP 601: Plant Mycology and Bacteriology	R. D. Narla & J. W. Muthomi		
2	ACP 605: Weeds Science and Management	E. S. Ariga		
3	ACP 604: Vertebrates and invertebrate crop pests	F. M. Olubayo		
4	ACS 600: Biometrics for Agricultural Sciences	Peter Mongaré		
5	ACP 612: Research methods and Scientific Communication	Elias Obudho		
Semester II				
6	ACP 610: Entrepreneurship in Agriculture	Agric. Economics Department		
7	ACP 602: Plant Virology and Nematology	J. W. Kimenju & D. W. Miano		
8	ACP 603: Crop Disease Epidemiology and Management	D. M. Mukunya		
9	ACP 608: Environmental Protection and Management	R. W. Michieka		
Semester III				
10	ACP 609: Biotechnology and Molecular Techniques	E. W. Mutitu & W. M. Muiru		
11	ACP 606: Pest Management and Applied Pesticide Science	Dora Kilalo		
12	ACP 611: Phytosanitary Legislation, Regulation & Standards	J. W. Muthomi & W. M. Muiru		
13	ACP 613: Thesis Semester I, II, III & IV	Respective supervisors		
MSc ARM Course Units (each course unit 45 contact hours)				
The course work shall consist of a total of 12 courses out of which 8 shall be core courses and 4 major courses.				
Core courses				
CODE	Course Title	Hrs	Semester	Responsible Department
ACS 600	Biometrics for Agricultural Sciences	45	1	PS & CP
ACP 612	Research Methods & Scientific Communication	45	1	PS & CP
ALM610	Remote sensing & GIS	45	1	LARMAT
ART601	Agricultural production systems	45	1	Animal Prod/ PS&CP
ART602	Markets & marketing of agricultural products	45	1	Agric Economics
ART603	Environmental management & post-harvest techn.	45	1	FST / LARMAT
ALM606	Project planning & management	45	2	LARMAT
ACA601	Agro-meteorology & climate change	45	2	PS & CP
Total		360		
Specialization areas				
Each candidate shall be required to specialize in only one of the five major areas and take all the four courses in that major.				
Major 1: Plants, ecosystems & environment		180		
ART611	Biodiversity & biotechnology	45	2	PS & CP
ACA603	Crop and forage production systems	45	2	PS & CP
ACS605	Plant nutrition and soil fertility	45	2	PS & CP
ACS603	Crop pest management	45	2	PS & CP
Major 2: Animals, ecosystems & environment		180		

ART621	Biodiversity & animal genetic resources	45	2	Animal Prod.
ART622	Animal nutrition & feed resources	45	2	Animal Prod
ART623	Animal production systems & animal health	45	2	Animal Prod
ART624	Integrated management systems in animal product	45	2	Animal Prod
	Major 3: Resource economics	180		
ART631	Agricultural development planning	45	2	Agric Economics
ART632	Agricultural resource economics	45	2	Agric Economics
ART633	Social economics & resource management	45	2	Agric Economics
ART634	Resource policy & law	45	2	Agric Economics
	Major 4: Soils, water & environment	180		
ALM608	Land degradation & rehabilitation	45	2	LARMAT
ALM609	Watershed management	45	2	LARMAT
ALM605	Irrigation and drainage	45	2	LARMAT
ALM 604	Nutrient cycling, modeling & management	45	2	LARMAT
	Major 5: Post harvest technology & management	180		
ART651	Storage of agricultural products	45	2	FST / PS&CP
ART652	Processing & preservation of agricultural products	45	2	FST
ART653	Agro-industrial waste management	45	2	FST
AFS 610	Food safety policy, standards & laws	45	2	FST
ART660	Thesis (Equivalent to 8 courses)	360	3 & 4	
TOTAL		900		

Manuals

- Each student shall be issued (@Ksh.650/-) a hard copy self study manual of each of the course units on the first day of the respective semester.
- Contents of the manuals – (i) teaching notes, (ii) Sample discussion questions at the end of each topic (iii) Practical hand outs for all the course practical sessions, (iv) References (recommended books & publications) for further reading at the end of the manual.

Semester Schedule General Schedule

Timing	Duration	Task
First Semester		
12 th September to 9 th December 2016	13 weeks	<ul style="list-style-type: none"> Course work Identification of thesis research topics Development of thesis research concept notes
13 th to 23 rd December 2016	2 weeks	First semester examinations
24 December 2016 to 8 th January 2017	2 weeks	Christmas Break

Second Semester		
16 th January to 14 th April 2017	13 weeks	<ul style="list-style-type: none"> • Second semester course work • Development of thesis research project proposals • Development of experimental designs • Identification of thesis research project study sites
17 th to 28 st April 2017	2 weeks	End of second semester examinations
1 st to 12 th May 2017	2 weeks Break	Refinement of thesis research proposals
Third Semester		
15 th May to 11 th August 2017	13 weeks	<ul style="list-style-type: none"> • Third semester course work • Presentation and approval of thesis research proposals • Allocation of thesis research supervisors • Initiation of thesis research – set up of experiments
14 th to 25 th August 2017	2 weeks	Third semester examinations
Thesis Research		
1 st to 12 th May 2017	2 weeks	• Refinement of thesis research proposals
28 th August to 8 th September 2017	2 week	• Deadline for approval and submission of thesis research proposals to Board of Postgraduate Studies (BPS)
May 2017 to February 2018	9 months	<ul style="list-style-type: none"> • Carrying of research project studies/ experiments (2 seasons) • Data collection, entry and analysis • Finalization of first 3 chapters (introduction, literature review, materials & methods) of thesis • Data interpretation
February to April 2018	3 months	Compiling of the thesis and evaluation by supervisors
May 2018	2 months	Approval and submission of MSc thesis to BPS for examination
June to August 2018	2 months	• Thesis Examination

ODL Delivery Schedule

First Semester ODL Schedule – 2016/2017		
Timing	Duration	Task
12 nd - 10 th September 2016	1 st week of semester one	<ul style="list-style-type: none"> • ODL Registration – admitted ODL students register for the course at their convenience during this week • Start of classes for fulltime students
Beginning of the semester face-to-face session	2 weeks (Thursday to	<ul style="list-style-type: none"> • Orientation in ODL delivery • Limited face-to-face sessions to provide overview of the course • Issue self-instructional study materials & relevant

29 th Sept -1 st October & 6 th - 8 th October 2016	Saturday)	literature <ul style="list-style-type: none"> • Issue of course assignments • Introduction to the course practicals • Introduction on development of thesis research proposals & how to select thesis research projects topics
Mid-semester face-to-face session 27 th -29 th October 2016	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> • Follow up tutorials • Administration of CATs • Administration of practicals • Follow up on assignments • Follow up on development of thesis research proposals
End of semester face-to-face session 8 th -10 th December 2016	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> • Follow up tutorials • Complete practicals • Administration of CATs • Follow up on assignments • Follow up on development of thesis research proposals
End of semester examinations 19 th – 24 th December 2016	1 week (Wednesday to Wednesday)	<ul style="list-style-type: none"> • End of semester examinations (To be done together with the full time students)
Second Semester ODL Schedule – 2016/2017		
Timing	Duration	Task
16 th to 20 th January 2017	1 st week of semester two	Start of classes for fulltime students; Registration for ODL students admitted in to join in 2 nd semester - register for the programme at their convenience during this week
Beginning of the semester face-to-face session 26 th to 28 th January 2017 & 2 nd to 4 th February 2017	2 weeks (Thursday to Saturday)	<ul style="list-style-type: none"> • Orientation in ODL delivery (for the new students joining at semester 2) • Limited face-to-face sessions to provide overview of the course • Issue self-instructional study materials & relevant literature • Issue of course assignments • Introduction to the course practicals • Follow up on development of thesis proposals and plans for implementation of thesis research projects • Guidance on development of thesis research proposals for students joining in semester 2
Mid-semester face-to-face session	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> • Follow up tutorials • Administration of CATs • Administration of practicals • Follow up on assignments

9 th to 11 th March 2017		<ul style="list-style-type: none"> Follow up on development of thesis proposals and plans for implementation of thesis research projects
End of semester face-to-face session 13 th – 15 th April 2017	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> Follow up tutorials Complete practicals Administration of CATs Follow up on assignments Follow up on development of thesis proposals and plans for implementation of thesis research projects
End of semester examinations 24 th to 29 th April 2017	1 week (Wednesday to Wednesday)	<ul style="list-style-type: none"> End of semester examinations (To be done together with the full time students)
Third Semester ODL Schedule – 2016/2017		
Timing	Duration	Task
15 th to 19 th May 2017	1 week	<ul style="list-style-type: none"> Start of classes for fulltime students
Beginning of semester ODL face-to-face session 25 th to 27 th May 2017 & 25 th to 27 th May 2017	2 weeks (Thursday to Saturday)	<ul style="list-style-type: none"> Orientation in ODL delivery (for the new students joining at semester 3) Limited face-to-face sessions to provide overview of the courses Issue self-instructional study materials & relevant literature Issue of course assignments Introduction to the course practicals Presentation of thesis research project proposals and allocation of theses supervisors (<i>student who joined in semester 1</i>) Guidance on development of thesis research proposals (<i>student who joined in semester 3</i>)
Mid-semester face-to-face session 29 th June to 1 st July 2017	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> Follow up tutorials Administration of CATs Administration of practicals Follow up on assignments Follow up on implementation of thesis research projects
End of semester face-to-face session 10 th to 12 th August 2017	1 week (Thursday to Saturday)	<ul style="list-style-type: none"> Follow up tutorials Complete practicals Administration of CATs Follow up on assignments Follow up on implementation of thesis research projects

End of semester examinations 21 st to 25 th August 2017	1 week (Monday to Friday)	<ul style="list-style-type: none"> End of semester examinations (To be done together with the full time students)
Thesis Research 2016/2017		
1 st to 12 th May 2017	2 weeks	Finalization of thesis research proposals
29 th May to 9 th 2017	One day within the 2 weeks	Presentation of thesis research project proposals and allocation of theses supervisors
28 th August to 8 th September 2017	2 week	<ul style="list-style-type: none"> Deadline for submission of approved thesis research proposals to Board of Postgraduate Studies (BPS)
May 2017 to February 2018	9 months	<ul style="list-style-type: none"> Carrying of research project studies/ experiments (2 seasons) Data collection, entry and analysis Finalization of first 3 chapters (introduction, literature review, materials & methods) of thesis Data interpretation
February to April 2018	3 months	Compiling of the thesis and evaluation by supervisors
May 2018	2 months	Approval and submission of MSc thesis to BPS for examination
June to August 2018	2 months	<ul style="list-style-type: none"> Thesis Examination

Summary Time Lines for the Two Year MSc Programme – 2016/2017 Intake

Activity	2016				2017								2018												
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Course work – Semester 1	█	█	█	█																					
Course work – Semester 2					█	█	█	█	█																
Course work – Semester 3									█	█	█	█													
Development of thesis proposal		█	█	█	█	█	█	█	█	█	█	█													
Present research proposal at departmental seminar & allocation of supervisors									█																
Initiate research – Set up of experiments					█	█	█	█	█	█	█	█													
Data collection, entry and analysis – Long rains 2015								█	█	█	█	█	█												
Submission of approved thesis research proposals to BPS											█	█	█												
Data collection, entry and analysis – Short rains 2015													█	█	█	█	█	█							
Compile first 3 chapters of thesis (introduction, literature review and methodology)				█	█	█	█	█	█	█	█	█	█	█	█	█									
Complete experiments													█	█	█	█	█	█							
Data interpretation – write results chapter													█	█	█	█	█	█	█						
Compile and complete thesis and thesis evaluation by supervisors													█	█	█	█	█	█	█	█					
Thesis Progress report Seminars														█			█		█				█		
Thesis submission to BPS																		█	█	█	█				
Thesis examination																			█	█	█	█			
Thesis oral defense																				█	█	█	█		
Graduation																								█	

NB:

1. Students are advised to consult their thesis research supervisors on a continuous basis; modality and logistics of the consultations should be agreed with the respective supervisors
2. For students who join in semester 2 and 3, they should extend the schedule by 3 and 6 months, respectively. However, graduation is usually held in August/September of each year.

Steps to Proposal Development

1. Identify a research topic (area of interest, or guided by an academic member of staff, or join an on-going research project by an academic member of staff). It is always advantageous to join funded research projects since this may help defray some of thesis research project costs. Alternatively, one may choose a research topic leaning towards the needs of the students' employer – for example:
 - 1.1. Collect data during agricultural extension work (surveys & sample collection) and set up experiments at the nearest Agricultural Training Centres or farmers fields for students employed by the ministry of agriculture.
 - 1.2. Experiment set up on the farm, or use existing experiments or research projects for students employed in horticultural industry.
2. Discuss the topic with potential academic supervisor
3. Develop a concept note (2-5 pages). Components of a concept note are:
 - 3.1. Title
 - 3.2. Introduction
 - 3.2.1. Background
 - 3.2.2. Problem statement
 - 3.2.3. Objectives (2-3 objectives)
 - 3.3. Proposed methodology – outline procedures of achieving each of the objectives stated in 3.2.3 (one paragraph for each objective).
 - 3.4. Expected outputs (or results)
 - 3.5. Budget (cost of implementing the project)
 - 3.6. Proposed work plan – time lines to implementation of each of the activities involved in the thesis project (from proposal development to thesis submission – see *Gant chart given above*)
4. Develop the full proposal after satisfactory evaluation of the concept note by the academic supervisor. Outline of the full proposal format may be as follows:
 - 4.1. Title (statement that summarizes the whole document – 1-2 lines long)
 - 4.2. Introduction (2-3 pages long)
 - 4.2.1. Background (general information about the topic of research)
 - 4.2.2. Problem statement (problems or constraints; why the need to carry out research or what are the knowledge gaps in the subject)
 - 4.2.3. Objectives (state the broad objective and 2-3 specific objectives)
 - 4.2.4. Hypothesis to be tested (one hypothesis for each of the specific objectives)
 - 4.3. Literature review – maximum 10 pages. The literature review describes what is known about the area of proposed research. This section should have a number of sub-headings which should ideally address all the aspects to be addressed in the experiments. The information given in the literature review is mainly derived from published work – journal papers and books but must avoid copy & paste. Obtain information from the references, synthesize and write in own words. All information given must be referenced and up-to-date references are highly encouraged (references of up to the present year).
 - 4.4. Materials and methods – maximum 5 pages. The materials and methods describes the procedures and experiments to be carried out during the study. This section should have sub-headings, each of which describes the procedures to be followed in the experiments, experiment specifications, experimental design, replications, experimental layout, data to be collected, sampling procedures, and statistical data analysis. Each of the objectives stated in section 4.2.3 must have corresponding experiment(s) in the materials and methods.

4.5. Expected outputs (or results) – maximum 1-2 paragraphs. This section describes the results to be obtained from the study.

4.6. References – list of all the references cited in the document.
The standard format of citing references must be followed.

Author(s). Year. Title of paper. Journal, volume: pages

Examples are given below:

Journal : Starr, M. P. 1984. Landmarks in the development of phytobacteriology. *Annual Review of Phytopathology* 22: 169–188.

Book: Schaad, N. W. (ed.) 1980. *Laboratory Guide of Identification of Plant Pathogenic Bacteria*. APS Press, St. Paul, MN.

Chapter in a book: Otim-Nape GW, Thresh JM, Fargette D. 1996. *Bemisia tabaci* and cassava mosaic virus disease in Africa, p. 319-350. In: Gerling D, Mayer RT (Eds.). *Bemisia* 1995: Taxonomy, Biology, Damage, Control and Management. Intercept, Andover, UK.

Internet source: Gottwald, T. R. 2007. *Citrus Huanglongbing: the pathogen and its impact*. APSnet feature. <http://www.apsnet.org/online/feature/huanglongbing/>. Accessed 20th January 2010.

Article in a newspaper: Warrick, Joby. “Lawmakers Urge Special Counsel Probe of Harsh Interrogation Tactics.” *Daily Nation* 25th July 2015, Upcountry edition.

Report by an institution:

- Food and Agriculture Organization (FAO). 1997. Worldwide regulations for mycotoxins for 1995: A compendium. Food and Nutrition Paper No. 64. FAO Rome.
- Kenya National Bureau of statistics. 2007. Economic Survey report: Ministry of Planning and National Development. Pp 159-179.
- Ministry of Agriculture, 2006. Eastern province annual crop report. Ministry of Agriculture, Nairobi, Kenya.

Proceedings: Legesse, B.W., Myburg, A.A., Pixley, K., Twumasi-Afryie, S. and Botha, A.M. 2007. Genetic diversity of maize inbred lines revealed by AFLP markers. *African Crop Science Conference proceedings* 8:649 - 654.

Proceedings: Howler RH, Oates G, Allem A. 2001. An assessment of the impact of cassava production on the environment and biodiversity, p. 3-9. In: Hershey, C (Ed.). *Proceedings of Validation Forum on Global Cassava Development Strategy held from 26th to 28th April 2001, Rome, Italy.*

Thesis: Njenga, L. N. 2008. Fungal and aflatoxin contamination in maize from eastern Kenya and evaluation of possible management strategies. MSc. Agricultural Resource Management, University of Nairobi

4.7. Work plan – Use a Gant chart

4.8. Budget

Sources of Information in proposal Development and Thesis Write up:

1. University of Nairobi online library – University of Nairobi registered students can access full length journal papers in major data bases (AGORA, AJAOL etc) by logging into the UoN library using computers in the library or in computer laboratories.
2. University of Nairobi libraries – Kabete, Chiromo and others for past theses on related topics

3. Research institutional libraries – KARI regional research centres, KARI headquarters, ILRI (Nairobi), ICRAF, CABI.
4. Government ministries – Ministry of agriculture libraries and annual reports and other publications, Agricultural Information and Resource Centre (at Kabete NARL).
5. Data bases – AGORA, CABI data bases,
6. Internet websites – google search engine;

Requirements for ODL Delivery

1. Functional **e-mail address** for students and lecturers (for continuous communication, issue & return of assignments/term papers, communication with programme coordinators).
2. Functional and reliable **cell phone contact**.
3. Availability during all the face-to-face sessions and practicals.
4. Timely completion and submission of **monthly** progress reports, assignments and term papers as agreed with lecturers and programme coordinators.
5. Constant **contact with thesis supervisors** (at least twice a month) and course instructors via e-mail.
6. Strict **availability for examinations as per university schedule**. University examinations will be done together with the regular full time students.
7. Every student must purchase each of the **course manuals** at the beginning of each semester.
8. Each student must draw up a **time table** on how to cover all the course units and thesis research during each week.

The Role of Face-to-face Sessions

The objectives of residential sessions are:

1. Introduce you to your institution.
2. Introduce you to the Teaching system in Open and Distance Learning.
3. Introduce you to the study skills and strategies for effective learning.
4. Issue and introduce you to the study materials.
5. Give you opportunity for consulting resources in the library.
6. Give you opportunity to meet your lecturers and other support staff.
7. Be able to meet fellow students and socialize with them.
8. Give you opportunity for discussing and resolving some issues that constrain you as a student.

Expectations on Part of the ODL Students

1. Avail adequate time for your study.
2. Budget your time appropriately to study each module adequately; that is develop a detailed schedule for reading.
3. Educate your family and associates on your added engagement so as to enlist their support.
4. Reserve some space for your study that the family or colleagues would not interfere with e.g. a reading table or a reading corner or a reading place or a reading room.
5. Attend tutorial sessions as required.
6. Study lecture manuals and the self assessment questions and any other follow up readings suggested in the manuals or by the course lecturer.
7. Join others in your class to form self study groups or at least discuss with your colleagues when you have opportunity.
8. Consult your lecturers on matters that are not clear to you especially during the tutorial sessions or through e-mail.

9. Make use of the facilities and resources made available to you e.g. library services.
10. Prepare yourself for tests and assignments.
11. Do and submit your assignments on time.
12. Look at the feedback on your assignments and tests and act appropriately.

Time Requirement and Time Management

The Degree programme consists of 12 course work units plus thesis and each of the 12 taught course work units is of 45 hours duration. These make a total of 540 hours for the course work units. The table below shows an example of the approximate time requirements for course work units for 3-semester MSc Crop Protection:

	No. of units@45hrs	Total hrs	Semester length (wks)	Hrs per week	Hrs per day (7 days/week)
Semester 1	5	225	13	17.3	2.5
Semester 2	4	180	13	13.8	2
Semester 3	3	135	13	10.4	1.5

This does not include time require for thesis project work.

In addition you will require more time for tests, assignments, practicals and thesis research project. In practice you will have more time over the week end during which you can programme your study for longer sessions. You are encouraged or advised to develop a culture of reading and note making all the time. The possible times in the day and in the week are evenings, early morning and week-ends for most of the day. These hours will reduce your leisure hours and reduce your socialization for the time you are studying but a worthwhile investment though maybe seen as sacrifice.

In summary you need to: -

1. Identify free time.
2. Create more time for reading.
3. Budget your time to the full task of studying all your units.
4. Reserve some time for the family and if you are employed or self-employed provide the required time for that too.
5. Draw a timetable indicating the unit you study during each slot and for doing self assessment questions, assignments and other activities in each unit.

Examination Regulations for MSc Degree Programme

Written examinations

1. Each course shall be examined by a written paper lasting three hours at the end of each semester in which the course is given.
2. The coursework assessment shall account for 30% and written examinations for 70% of the final mark.
3. The pass mark for each course shall be 50 %.
4. The grading of the courses shall be as follows:
A = 70% and above; B = 60 – 69%; C = 50 -59%; D = 0 – 49% (fail)
5. A candidate who fails in any paper may, on the recommendation of the Board of Examiners, and

approval by the Senate be allowed to take up to two supplementaries in failed papers after paying the appropriate fees.

6. A candidate who fails in the second supplementary or fails to complete the programme in the prescribed maximum duration of 8 semesters shall, on the recommendation of the Board of Examiners and approval by the Senate, be discontinued.
7. The mark for a supplementary paper shall be recorded as 50% in the candidate's academic record.

Thesis examination

In consultation with their supervisors, candidates will choose a topic from the field of study for their research. Before embarking on research, the students will be required to prepare a proposal which will be approved by the department. At the end of the research, they will write a thesis, present a summary of research findings and submit a thesis for examination. The following are the guidelines for thesis examination:

1. Each student shall present a seminar on the thesis research proposal.
2. Each candidate shall submit for examination a thesis, with the approval of the academic supervisors, at the end of the final semester. The thesis shall be examined in accordance with the common regulations of the University of Nairobi.
3. A candidate who fails in the thesis examination may on the recommendation of the Faculty Board of examiners be allowed to resubmit the thesis within six months up to a maximum of two times.
4. A candidate who fails after the second resubmission or fails to complete the course in the prescribed period shall, on the recommendation of the Faculty Board and approval by Senate, be discontinued.