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- Genetics
- Microbiology and Plant Pathology
- Physiology
- Zoology and Entomology

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- Chemistry
- Geology
- Geography, Geoinformatics and Meteorology
- Physics

School of Agricultural and Food Sciences

- Agriculture Economics, Extension and Rural Development
- Animal and Wildlife Sciences
- Consumer Science
- Food Science
- Plant Production and Soil Science

School of Mathematical Sciences

- Computer Science
- Insurance and Actuarial Science
- Mathematics and Applied Mathematics
- Statistics

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FACULTY OF NATURAL AND AGRICULTURAL SCIENCES ACADEMIC PERSONNEL AS ON 30 SEPTEMBER 2002

DEAN

Prof. R.M. Crewe, BSc(Agric) MSc(Agric)(Natal) PhD(Entom)(University of Georgia) FRES FRSSA MSAAS PrSciNat

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Nicolson, S.W., BSc(Hons)(Auckland) PhD(Cantab)FRES Pro	ofessor
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Ferguson, J.W.H., BSc(UPE) BSc(Hons) MSc(Pret)	
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Clutton-Brock, T.H., MA PhD ScD(Cambridge)	Extraordinary Professor
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Moritz, R.F.A., Dip (University of Frankfurt) PhD(University	
of Frankfurt)	Extraordinary Professor
Pimm, S.L., BA(Hons)(Oxford) PhD(New Mexico State	
Univ)	Extraordinary Professor
Rasa, A.E., BSc(Hons)(London) MSc(Hawaii) PhD(London)	
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Australia) PhD(UP)	Senior Lecturer
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Department of Genetics	
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(Stell)	Associate Professor
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PhD(Pret)	Senior Lecturer
Greeff, J.M., BSc(Hons)(Rhodes) PhD(Pret)	Senior Lecturer
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PhD(NCSU)	Lecturer
Department of Microbiology and Plant Pathology	
Cloete, T.E., MSc(UOVS) DSc(Pret) PrSciNat	Professor (Head)
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Department of Botany	25514.15.
Meyer, J.J.M., PhD(Pret)	Associate Professor
(Head)	7.0000.010 1 10.0000.
Bredenkamp, G.J., DSc(Pret) THOD FLS PrSciNat	
MSAIEandES MGSSA	Professor
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HOD FLS	Professor
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DSc(Pret)	Extraordinary Professor
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PrSciNat LSEPM MGSSA MNY Acad.sci	Professor Professor Professor Professor Associate Professor Associate Professor Senior Lecturer Senior Lecturer Senior Lecturer
PrSciNat LSEPM MGSSA MNY Acad.sci	Professor Professor Professor Professor Associate Professor Associate Professor Senior Lecturer Senior Lecturer Senior Lecturer Professor (Head)
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Centre for Science, Mathematics and Technology Edu	ıcation
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Department of Agricultural Economics, Extension and	Rural Development
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MSc PhD(lowa)	Professor
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(University of Fort Hare) MSc(Agric)(University of the	115)
North) M.S.(Michigan State University) PhD(Michigan	
University)	Professor
	Fiolessoi
Van Rooyen, C.J., BSc(Agric) BSc(Agric)(Hons)(Stell) MSc	Drofosor
(Agric) DSc(Agric)(Pret)	Professor
Abalu, G.I., BSc(University of Wisconsin) MSc PhD	Estro audinom Duofos
(Iowa State University)	Extraordinary Professor

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Steyn, G.J., BSc(Agric)(Stell) BSc(Agric)(Hons)(Pret)	
MSc(Agric) DSc(Agric)(UFH)	Senior Lecturer
Doyer, O.T., BSc(Agric) GGS Landbou(Gent)(Belgium)	Lecturer
Ngqangweni, S.S., BAgric(Fort Hare) BInstAgrar(Hons)	
MInstAgrar PhD(Pret)	Lecturer
Steven, J.B., BSc(Agric) BlnstAgrar(Hons) MlnstAgrar(Pret)	
Meyer, F., BScAgric(Hons)	Junior Lecturer
McDonald, J.R. S., PhD(Univ of NewCastle) HND(Edinburgh)	
BSc(Agric)(NewCastle) PhD(Nottingham University)	Extraordinary Lecturer
Willemse, J., PhD(UP)	Research Fellow
Rwelamira, J.K., M.A.M.R.D.(Florida USA)	Assistant Director:
	Postgraduate School
Department of Civil and Biosystems Engineering	
See Faculty of Engineering, Built Environment and Informatio	n Technology.
Department of Plant Production and Soil Science	
Reinhardt, C.F., BSc(Hons)(UOVS) MSc(Agric) PhD(Pret)	Professor (Head)
Hammes, P.S., MSc(Agric) DSc(Agric)(Pret)	Professor
Annandale, J.G., MSc(Agric)(Pret) PhD(WSU)	Associate Professor
Claassens, A.S., Dipl Agric (Potch) MSc(Agric)	
DSc(Agric)(Pret) LAkad(SA)	Associate Professor
Du Toit, E.S., BSc(Hons) MSc(Agric)(Pret) PhD(Pret)	Senior Lecturer
Kaiser, C., MSc(Agric) PhD(Natal)	Senior Lecturer
Pavel, E., Diplom-Ingenieur(Agronomy) PhD(Agronomy)	
(Univ of Bonn)	Senior Lecturer
Pieterse, P.A., BSc(Agric)(Hons) MSc(Agric) PhD(Pret)	
PrSciNat MGSSA	Senior Lecturer
Soundy, P., BSc(Agric)(Fort Hare) MSc(Agric)(Natal PhD(Florida)	Senior Lecturer
De Jager, P.C., BSc(PU vir CHO) BSc(Hons)(PU vir CHO)	Oction Ecolardi
MSc(Pret)	Lecturer
Marais, D., BSc(Agric)(Hons) MSc(Agric)(Pret)	Lecturer
Van der Waals, J.H., BSc(PU vir CHO) BSc(Hons)(PU vir CHO	
MSc(Pret)	Lecturer
Department of Animal and Wildlife Sciences	
Casey, N.H., MSc(Agric)(Natal) DSc(Agric)(Pret)	

PrSciNat(Anim) MRSSA, SAAPAS	Professor (Head) Professor : Director: for Wildlife Management Centre
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PrSciNat(Anim) SAAPAS	Associate Professor
Van Hoven, W., MSc DSc(PU vir CHO) PrSciNat(Anim)	Associate Professor
Van Niekerk, W.A., MSc(Agric)(Pret) PhD(Pret)	
PrSciNat(Anim) SAAPAS	Associate Professor
	Associate Professor
Schönfeldt, H.C., MhomeEcon(Pret) PhD(Pret)	Extraordinary Professor
Jansen van Ryssen, J.B., MSc(Agric) Natal PhD(Agric)Natal	
Delport, G.J., MSc(Agric) PhD(UOVS)	Senior Lecturer
Kleyn, F.J., MSc(Agric)(Natal) PrSciNat(Anim) SAAPAS	Senior Lecturer
Meyer, J.A., MSc(Agric)(Pret) PhD(Pret) SAAPAS	Senior Lecturer
Schroeder, G.E., MSc(Agric)(Pret) PhD(Pret) PrSciNat	
(Anim) SAAPAS	Senior Lecturer
Strydom, P.E., MSc(Agric)(Pret) PhD(UOVS)	Senior Lecturer
Van Marle-Köster, E., BSc(Agric)(Pret) BSc(Agric)(Hons)	
MSc(Agric)(UOVS) PhD(Pret) Dipt. Development	
Studies(UNISA) PrSciNat(Anim) SAAPAS	Senior Lecturer
Vermeulen, G.T.J., BSc(Agric)(Hons)(Pret) MSc(Agric)	
(UOVS)	Senior Lecturer
Coertze, R., BSc(Agric)(Hons)(Pret)	Lecturer
Jansen van Rensburg, C., MSc(Agric)(Pret)	Lecturer
Basson, A., BSc(Agric)(Pret)	Junior Lecturer
Department of Consumer Science (Previously: Home	•
De Klerk, H.M., BSc MSc(Home Econ) PhD(Pret)	Associate
Professor(Head)	
Botha, P., BSc(Home Econ)(Stell) MA(Minnesota) DSc(Pret)	Professor
Erasmus, A.C., BSc(Home Econ)(Hons) M(Home Econ)(Pret) Senior Lecturer
Du Rand, G.E., BHuish Ed(Stell) BHome Econ(Hons)(Stell)	
MSc(Home Econ)(Pret)	Lecturer
Kruger, R., Dipl Hosp Dietetics BDietetics(Hons) Mdietetics	
(Pret)	Lecturer
Retief, A., M(Home Econ)(Pret)	Lecturer
Strydom, M., BSc(Hons) Home Economics(PU for CHE)	Lecturer
Viljoen, A.T., Dipl Hosp Dietetics(UOVS) MDietetics(Pret)	Lecturer
Viljoen, S., MHome Economics(UP)	Lecturer
Jacobs, B.M., Dipl in Tertiary Education(UP), B Home	lunian Lastunan
Economics(Hons)(UP)	Junior Lecturer
Kok, M., B Home Economics General(Hons)(US)	Junior Lecturer
Tselepis, T.J., B Home Economics (Clothing Management)	lunior Logiuror
(UP)	Junior Lecturer

Van der Spuy, H.H., BSc(Hons) (Dietetics)(Stell) Department of Food Science	Junior Lecturer
Minnaar, A., BSc(Agric)(Hons) PhD(Pret)	Professor (Head)
(Nottingham) PhD(Trent) DSc(Pret) Bester, B.H., MSc(Agric)(Pret) DSc(Agric)	Professor
(UOVS) LAkad(SA) PrSciNat	Associate Professor
De Kock, H.L., BSc(Home Ec)(Hons) MSc(Agric)(Pret)	Lecturer
Duodo, K.G., BSc(Ghana) MInstAgrar PhD(Pret)	Lecturer
Bapela, K.J., BAgore(Mgnt)(Univ) BIngstAgrar	
(Hons)(Pret) MSc(Ghent)	Junior Lecturer
Van der Merwe, B., BSc(Food Science)(Stell)	Junior Lecturer
Postgraduate School of Agriculture and Rural Develo	•
Swanepoel, F.J.C., Hons(BandA)(Stell) MSc(Agric) PhD(UO	
PrSciNat	Professor and Director
Van Rooyen, C.J., BSc(Agric)(Hons)(Stell) DSc(Agric)(Pret)	
SSE(IMD)	Professor
Peret, S., D.E.A., (Agronomy) PhD(Agronomy)(Montpellier,	
France)	
	Associate Professor
Anandajayasekeram, P., BSc(Agric)(Hons)(University of	Associate Professor
Anandajayasekeram, P., BSc(Agric)(Hons)(University of Sri Lanka) PhD(University of Guelph)(Canada)	Associate Professor Extraordinary Professor
Sri Lanka) PhD(University of Guelph)(Canada)	Extraordinary Professor
Sri Lanka) PhD(University of Guelph)(Canada) D'Haese, L.J.G.M.H, PhD(Rijksun University Gent)	Extraordinary Professor
Sri Lanka) PhD(University of Guelph)(Canada)	Extraordinary Professor

Kellogg Integrated Rural Development Programme Swanepoel, F.J.C., Hons(BandA)(Stell) MSc(Agric) PhD(UO\	/S)
PrSciNat	Professor and
	Part-time Director
South African Institute for Agricultural Extension	
Düvel, G.H., Dip Agric (Cedara) BSc(Agric) MInstAgrar	
DInstAgrar(Pret) PrSciNat	Director
School of Mathematical Sciences	
Ströh, A., MSc PhD(Pret)	Professor (Chairperson)
Department of Computer Science	
Eloff, J., PhD(RAU)	Professor (Head)
Bishop, J.M., BSc(Hons)(Rhodes) MSc(Natal)	
PhD(Southampton)	Professor
Kourie, D.G., MSc(Pret) MSc(Unisa) PhD(Lancaster)	Professor
Barnard, E., BEng(Pret) MSc(Wits) PhD(Carnegie Mellon)	Professor Extraordinary
Grant, T., PhD(Maastricht)	Professor Extraordinary
Van den Heever, R.J., MSc(Pret) MS(Stanford) MEng	
PhD(Calif)	Professor Extraordinary
Engelbrecht, A.P., PhD(Stell)	Associate Professor
Meyer, T.A., MSc(RAU) PhD(Unisa)	Associate Professor
Watson, B.W., H.J.B.Math(Waterloo) PhD(Eindhoven)	Professor
Jolliffe, R.M., BSc(Hons)Strathclyde, PGCE (Univ of London)	Lecturer
Marshall, L., BSc(Hons)(Pret)	Lecturer
Pieterse, V., BSc HED(Pret) BSc(Hons)(UNISA) MSc(Pret).	Lecturer
Schoeman, L., BSc(Stell) BSc(Hons)(Unisa) MSc(RAU)	Lecturer
Department of Statistics	
Crowther, N.A.S., BSc(Hons)(UOVS) MSc(UPE)	
DSc(UOVS)	Professor (Head)
Stoker, D.J., MSc(PU for CHO) MSc(Stell)	
Math et Phys Dr (Amsterdam)	Professor (Honorary)
Stoker, D.J., MSc(PU vir CHO) MSc(Stell)	
Steyn, H.S., MSc(UOVS) PhD(Edin) DSc(Pret) DSc(hc)	
(Unisa) DSc(hc)(UOVS) PhD(hc)(RAU) DCom(hc)	
(Pret)(UOVS)	Extraordinary Professor
Groeneveld, H.T., BSc(Agric)(Hons) MSc(Agric)(UOVS)	
DSc(Pret)	Professor
Smit, C.F., MSc DSc(Pret) PrSciNat	Professor
Van Zyl, G.J.J., BCom(Hons)(Stell) Dip Stat(Oxon)	
PhD(North Carolina)	Professor
Boraine, H., MSc PhD(Pret)	Senior Lecturer
Grimbeek, R.J., BSc(Hons) MSc(Pret)	Senior Lecturer
Kanfer, F.H.J., MSc PhD(PU vir CHO)	Senior Lecturer
Millard, S.M., BCom(Hons) MCom(Pret)	Senior Lecturer
Swanepoel, A., BSc(Hons) MSc(UPE)	Senior Lecturer
Bodenstein, L.E., BCom(Hons) MCom(Pret)	Lecturer

Clark, J., BSc(Hons) HED (Pret)	Lecturer Lecturer Lecturer Lecturer Lecturer Lecturer Lecturer Lecturer Lecturer Junior Lecturer
Du Plessis, H.L.M., BSc(Wits) FIA	Associate Professor
Department of Mathematics and Applied Mathematics	S
Ströh, A., MSc PhD(Pret)	Professor (Head)
Diestel, J., BS(Dayton) PhD(Cath Univ of America)	Professor (Honorary)
Rosinger, E.E., MSc Dr Sc(Bucharest)	Professor Emeritus
De Jongh, D.C.J., BSc(Hons)(Wits) MSc(Unisa) PhD(Wits)	Extraordinary professor
Engelbrecht, J.C., MSc(Pret) DSc(PU vir CHO)	Professor
Lubuma, J.M-S., MSc PhD (Univ of Louvain, Belgium)	Professor
Penning, F.D., MSc DSc(Pret)	Professor
Pretorius, L.M., MSc DSc(Pret)	Professor
Schoeman, M.J., MSc(Pret) Dr Sc T Wet(Delft) L.Akad.(SA)	Professor
Swart, J., BSc(Hons) MSc(PU vir CHO) DrPhil(Zürich)	Professor
Van Niekerk, F.D., MSc DSc(Pret)	Retired : Part-time
Count D. MCa DCa/Drest)	Professor
Swart, B., MSc DSc(Pret)	Associate Professor
Anguelov, R., MSc(Sofia) PhD(Unisa)	Senior Lecturer
Greybe, W.G., MSc DSc(Pret)	Senior Lecturer
Griffiths, A., BSc(Hons) MSc(Pret) THED	Senior Lecturer
Harding, A.F., MSc DSc(Pret) HNED Janse van Rensburg, N.F., BSc(Pret) BSc(Hons)(Unisa)	Senior Lecturer
MSc DSc(Pret) HED	Senior Lecturer
Möller, M.P., BSc(Hons)(Comp. Science) BSc(Hons)(Maths)	Sellioi Lectulei
MSc(Pret)	Senior Lecturer
Theron, F., MSc DSc(Pret) HED	Senior Lecturer
Duvenhage, R. de V., MSc PhD(Pret)	Lecturer
Jordaan, K.H., BSc(Pret) BSc(Hons)(Wits) MSc(Pret)	Lecturer
Labuschagne, A., BSc(Hons) MSc(PU vir CHO) DTE	Lecturer
Maepa, S.M., BSc(Hons)(Univ of North) MSc(Univ of Lancas	
PhD(Pret)	Lecturer
Mostert, L., BSc(Hons) MSc(PU vir CHO)	Lecturer
Van Zyl, A.J., BSc(Hons) MSc(Pret)	Lecturer
Verwey, A., BSc(Hons) MSc(Pret)	Lecturer
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Student Administration	
Beresford, M.E., Mrs	Head: Student
	Administration
Kotze, S	Faculty Manager

GENERAL INFORMATION

Admission

Any person who wishes to register at the University for the first time, or after an interruption of studies, should apply or reapply for admission. Application for admission to all undergraduate modules closes on 30 September.

Selection

A selection procedure takes place prior to admission to the following degree programmes in the Faculty of Natural and Agricultural Sciences:

(a) All undergraduate programmes

Note: BSc: Veterinary Biology: Candidates must apply and register for a BSc: Biological Sciences, BSc: Animal Sciences or a degree consisting of the same modules prescribed for the BSc: Veterinary Biology. Applications close on 30 September.

A first round selection process for the degree BSc: Veterinary Biology will take place at the end of the second year of study provided a candidate had passed the prescribed modules. Students not selected at the end of the second year will be able to continue in their third year with any one of a number of different degree options including a three-year BSc degree with options in either Animal Sciences, Botany, Biotechnology, Entomology, Genetics, Microbiology, Zoology, or alternatively a four-year BSc(Agric) in Animal Science. However, it may be necessary to register for additional outstanding prescribed modules.

A final selection of candidates who will be admitted to the BVSc programme will be made at the end of the third year in quarter of rules G.1.3, G.1.4 and G.62, based on academic merit, an interview and according to available capacity. Students not selected at the end of the third year of study or who do not wish to continue with the BVSc degree, will be able to apply for admission to continue with a honours degree in Anatomy, Physiology or an honours degree in one of the Biological or Agricultural Sciences after completion of a number of specified additional third year modules in that discipline.

(b) Postgraduate programmes:

BSc(Hons) with specialization in Chemistry. Applications close on 30 November.

BSc(Hons) Mathematical Statistics: Admissions test compulsory for admission.

BSc(Hons) Wildlife Management: Applications close on 8 September.

MSc(Agric) Animal Science (all specializations): Applications close on 30 October.

MInstAgrar Animal Production Management: Applications close on 30 October.

Statement of symbols

When registering at this University for the first time, a candidate has to submit a record of symbols obtained for each subject in the Grade 12 examination.

Medium of instruction

In conducting its business, the University uses two official languages, namely Afrikaans and English. In formal education, the medium of instruction is either Afrikaans or English, or both of these languages, provided that there is a demand and that it is academically and economically justifiable. However, it remains the student's responsibility to ascertain on an annual basis in which language a module and any further level of that module is presented. In respect of administrative and other services, a student has the right to choose whether the University should communicate with him or her in Afrikaans or English.

Bursaries and loans

Particulars of bursaries and loans are available on request.

Accommodation

Applications for accommodation in university residences for a particular year should be submitted as from April 1 of the preceding year. Applications will be considered as long as vacancies exist, and prospective students are advised to apply well in advance. Please note that admission to the University does not automatically mean that lodging will also be available.

Welcoming day and academic information week

Details of the welcoming day to which all parents are cordially invited, and the subsequent academic information week during which all new first-year students **must** be present, are obtainable from the Dean of Students, University of Pretoria 0002.

Prescribed books

Lists of prescribed books are not available. The appropriate lecturers will supply information regarding prescribed books to students at the commencement of lectures.

Amendment of regulations and fees

The University retains the right to amend the regulations and to change module fees without prior notification.

NB: The University of Pretoria started phasing in a new system of education and learning during 2000, which meets the requirements set out in the SAQA guidelines (South African Qualifications Authority) and in the NQF (National Qualification Framework). This entails the implementation of training programmes that will be outcomes-based and market-orientated. This system was be implemented in the Faculty during 2001. Students who registered for a degree or diploma in this Faculty before 2000, will be enabled to complete the studies for the qualification.

Should a student who registered before 2001, wish to change over to the a new programme, permission may be obtained in consultation with the programme manager for the new programme. For certain programmes it will be essential that the student change over to the new programme on the recommendation of the programme

manager. However, the student will have to meet all the requirements for the new qualification.

As a result of the phasing-in of this new system, information in this publication might not reflect the very latest developments in the Faculty. Problems may be taken up with the Faculty Administration.

Presentation of a module or a programme

The Faculty reserves the right not to offer a particular module or programme if there is insufficient resources to do so, or if an insufficient number of qualified students present themselves.

Foundation Year Programme in Mathematics and the Basic Sciences (Code 02181001) (UPFY)

The Foundation Year Programme in Mathematics and the Basic Sciences (UPFY), is a one-year programme offered to designated students who wish to register for a science or science-based study at the University of Pretoria but who did not meet the entrance requirements for these studies.

(a) Admission

Admission of students is based on an admission test that will be administered during January 2003. In the selection procedure the quality of prior education of the individual candidates is also considered. Student eligible to write the admission test:

- (i) must belong to the group of designated students
- (ii) must have obtained at least an F(SG) or G(HG) in the Grade 12 Mathematics examination
- (iii) must have obtained at least an F(SG) or G(HG) in the Grade 12 Physical Science examination and/or must have obtained at least an F(SG) or G(HG)the Grade 12 Biology examination

(b) Modules

FBI 001 Foundation module in Biology 001

FCM 001 Foundation module in Chemistry 001

FES 001 Foundation module in English and Study Skills 001

FPH 001 Foundation module in Physics 001

FPM 001 Foundation module in Mathematics 001

CIL 171 Computer and information literacy 171

CIL 172 Computer and information literacy 172

CIL 173 Computer and information literacy 173

CIL 174 Computer and information literacy 174

All modules are compulsory.

(c) Rules and regulations

Consult the UPFY Handbook for the rules and regulation pertaining the programme. For instances not covered by the UPFY regulations the Faculty or University regulations shall apply.

(d) UPFY Pass

An UPFY Pass is issued if:

- The student obtains a final mark of 60% in at least four of the following modules: FBI 001, FCM 001, FPH 001, FPM 001, and FES 001 and a final mark of 50% in the remaining module.
- 2. The student passes all examinations of the Computer literacy module.

(e) Admission to undergraduate study

The UPFY Pass gives access to all undergraduate programmes offered by the Faculty.

Definition of terms

Familiarise yourself with the following terms. They are used generally in all faculties.

academic year: the duration of the academic year which is determined by the University Council

core module: a compulsory course for a specific study programme

course: a selected division of a subject deemed to be a unit and to which a course code is allocated

course code: consists of an equal number of capitals and digits, which indicate the name of the course, the year of study, the period of study and the level of the course credits: a number of credits are allocated to each course. These represent the quantity of work and the extent of the course

curriculum: a series of courses grouped together from different subjects over a specified period of time and in a certain sequence according to the regulations

elective module: a course that forms part of a study programme and which may be chosen by the students on condition that sufficient course credits on a specific level is obtained, as is required for the qualification for which the student is registered

examination mark: the mark a student obtains for an examination in a course, including practical and clinical examinations where applicable. If necessary, the examination mark is finalised after ancillary examinations have been completed

extended study programme: a study programme for a degree or diploma which is completed over a longer period than the minimum duration of the particular degree or diploma

final mark: the mark calculated on the basis of the semester/year mark and the examination mark a student obtained in a particular course according to a formula which is determined from time to time in the regulations for each course with the proviso that should no semester/year mark be required in a course, the examination mark serves as the final mark

fundamental module: a course that is regarded as the academic basis of the learning activities in a specific programme

GS: a combined mark (semester/year mark plus examination mark) of at least 40% **level of a course** or **level**: the academic level of a course which is indicated in the

learning hours: This refers to the notional number of hours students should spend to master the learning content of a particular module or programme. The total number of learning hours for a module consists of the time needed for lectures, practicals, self-study and any other activity required by the training programme. Learning hours for modules are calculated on the basis of **40 working hours per week x 28 weeks = 1120 + 80 additional hours for evaluation = 1200**. For undergraduate modules, the total number of learning hours per module are calculated using the formula **number of credits** (per module) **x 10**.

module: a subject course that may strech over 7 weeks, a semester (14 weeks) or a year (28 or 34 weeks).

registration: the process a candidate is required to complete to be admitted as a student of the University or for admission to a course

regulation for admission: a regulation drawn up by the Dean of a faculty regarding the admission of students to the faculty. It includes a provision regarding the selection process

semester course: a course that extends over one semester

semester/year mark: the mark a student obtains during the course of a semester or a year for tests, class-work, practical work or any other work in a particular course as approved by regulation

subject: a demarcated field of study of which one course or more may be chosen for a degree

syllabus: the division of the study material for a specific course, according to the regulations

weighted average: the weighted average is composed of the marks for the various courses, weighted with the credits of each course as a fraction of the total number of credits for the semester or year

year course: a course that extends over one year (two semesters)

REGULATIONS AND CURRICULA

The rules for degrees, diplomas and certificates here published are subject to change and may be amended prior to the commencement at the academic year in 2002.

1. Admission to undergraduate study

1.1 General

- 2 To register for a first bachelor's degree at the University, a candidate must, in addition to the required Grade 12 certificate with university exemption, comply with the specific admission requirements for particular modules and fields of study as prescribed in the admission regulations and the faculty regulations.
- 3 The following persons may also be considered for admission:
 - (i) A candidate who is in possession of a certificate which is deemed by the University to be equivalent to the required Grade 12 certificate with university exemption.
 - (ii) A candidate who has an UPFY Pass.
 - (iii) A candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution.
 - (iv) A candidate who passes an entrance examination, as is prescribed by the University from time to time.

Note: A conditional exemption certificate does not grant admission to bachelor's

study. However, in certain circumstances some of the faculties do accept

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conditional exemption on the basis of mature age. Candidates are advised to

contact the specific faculty administration in this regard.

- 4 The Senate may limit the number of students allowed to register for a module, in which case the Dean concerned may, at his own discretion, select from the students who qualify for admission those who may be admitted.
- Subject to faculty regulations and the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to postgraduate bachelor's degree tudies, if he or she is already in possession of a recognised bachelor's degree.

1.2 Requirements for specific courses

A candidate who has:

- (a) i) A candidate who has passed the Grade 12 examination with an M-score of at least 18 and at least 60% (C) in Mathematics in higher grade, may register for COS 130, provided that he/she does not qualify for COS 110.
 - ii) A candidate who has registered for any programme that requires an introductory module in computer programming, may register for COS 160, provided that he/she does not qualify for admission to COS 110 or COS 130.
 - iii) (1) A candidate who has passed the Grade 12 examination in Computer Studies with at least 50% (D) at higher grade, as well as in Mathematics with at least 50% (D) at higher grade, obtains admission to the module COS 110 in Computer Science; or
 - (2) A candidate who has passed COS 130, obtains admission to the module COS 110 in Computer Science; **or**
 - (3) A candidate who has passed COS 160 as well as Mathematics with at least 50% (D) at higher grade obtains admission to the module COS 110 in Computer Science; **or**
 - (4) A candidate who has passed COS 160 and has been admitted to the module WTW 101 obtains admission to the module COS 110 in Computer Science; **or**
 - (5) A candidate who has passed Mathematics with at least 50% (D) at higher grade as well as the exemption test for computer programming, obtains admission to the module COS 110 in Computer Science.
 - iv) A student may not obtain credits for both COS 130 and COS 160.
- (b) passed the Grade 12 examination in Mathematics with at least 40% at higher grade or at least 50% at standard grade, will be admitted to the modules GLY 151 and 152 in Geology;
- (c) passed the Grade 12 examination in Mathematics with at least 40% (E) at higher grade or 50% (D) at standard grade, or passed Geography with at least 50% at higher grade, will be admitted to GGY 153, 154, 132, 162 and 163 in Geography;
- (d) passed the Grade 12 examination in Mathematics and Physical Science at higher grade with at least 50%, will be admitted to the module CMY 151, CMY 117 and CMY 127 in Chemistry and PHY 131 and PHY 171 in Physics;
- (e) passed the Grade 12 examination in Mathematics with at least 50% at higher grade, will be admitted to WTW 114, WTW 134 and WTW 158 in Mathematics, and to WST 110 in Mathematical Statistics (For the programme in Financial Mathematics, 60% in Mathematics higher grade is recommended);
- (f) passed the Grade 12 examination in Mathematics as well as in Physical Science with at least 50% at higher grade, will be admitted to Molecular and Cell Biology

- and a module in the subjects Zoology and Entomology, Genetics, Microbiology or Botany;
- (g) passed the Grade 12 examination in Mathematics with at least 40% at higher grade or at least 50% at standard grade (or at least 50% in Statistics 113 and 123), will be admitted to (i) a module in the subjects Banking, Informatics (excluding INF 153,154, 163, 164 and 253, 263) or Statistics and (ii) modules in Economics, Marketing Management Financial Management and Financial Accounting on 200 level;
- (h) registered, may write an exemption test for module FRK 151 on the work covered in Grade 12 (matric) for the subject Accountancy. Should this test be passed, the student will be exempted from module FRK 151 and will be allowed to continue with module FRK 181 immediately. This module entails computer applications for Accountancy and is presented during the full first semester (14 weeks). Should the student fail the exemption test, he or she can continue with FRK 151, which entails introductory computer-supported accountancy and a few lectures. The student who failed to pass the exemption test for FRK 151, will continue with FRK 181 in the second semester after having passed FRK 151 in the first semester. Credit will be given for any one of FRK 151, 152, 121 and 211, provided that FRK 181 has been passed.
- (i) passed the Grade 12 examination in Mathematics with at least 50% (D) at higher grade or 60% (C) at standard grade, or passed Mathematics at higher grade with at least 40% or at standard grade with at least 50% (D) as well as Computer Studies with at least 60% (C) at higher grade or 70% at standard grade, or who obtained an average of at least 60% in Statistics 110* and 120*, or who obtained an average of at least 60% in {(Statistic 113*, 123*) and Statistics 120*) will be admitted to Informatics 153, 154, 163, 164, 253 and 263 (*at least 50% must be obtained in each module).

Please note:

- (i) ...the Grade 12 examination... refers to the final matriculation examination.
- (ii) A student who takes a module presented by another faculty must take note of the admission requirements of that module, subminima required in examination papers, supplementary examinations, etc.

2. Registration for a particular year of study

At the beginning of an academic year, a student registers for all the modules he or she intends taking in that particular year (whether these be first-semester, second-semester or year modules). Changes to the chosen module of study may be made at the beginning of the second semester with the Dean's approval. A student may also only register for modules that will fit in on the lecture, test and examination timetables. Should a student be prepared to attend one module after hours to avoid clashes on the timetables, the approval of the Dean is not required. (This will only be possible if the subject in question is offered full-time and extramurally). A student is allowed to register for the next year of study only if at

least the equivalent of four semester modules has been passed in a particular year of study – also applicable to the Extended Programmes.

2.1 Extended Programme (Mathematical Sciences) (02182003) Extended Programme (Biological and Natural Sciences) (03182003)

- (a) These programmes are followed by students who, as a result of exceptional circumstances, will benefit from an extended programme.
- (b) Students who wish to follow the Extended Programme will be subjected to an admissions test and will be considered for admission by a Selection Committee.
- (c) Applications for admission to the Extended Programme should be submitted before 30 September each year. Details are obtainable from the Faculty Administration.
- (d) The rules and regulations applicable to the normal study programmes apply mutatis mutandis to the Extended Programmes, with exceptions as indicated in the regulations pertaining to the Extended Programmes.
- (e) Students who are admitted to the Extended Programme register for one of the Extended Programmes.

2.2 Information Technology (02133211, 02133221 and 02133231)

Students must pass at least *three* Computer Science modules at second-year level, before admission to the Computer Science modules at third-year level will be permitted, unless special permission has been granted by the head of department.

3. Course credits for unregistered students

There are students who attend lectures, write tests and examinations and in this manner earn "marks", but have either not registered for modules or even as students at all. These marks will not be communicated to any student before he/she has provided proof of registration. A student cannot obtain any credits in a specific academic year for a module "passed" in this manner during a previous academic year and for which he/she was not registered. This arrangement applies even where the student is prepared to pay the tuition fees.

4. Examination and pass requirements

Students who are registered for a module in this faculty are entitled to write the examination in that module. A final mark of at least 50% is required to pass the module.

4.1 Subminima in examinations

A subminimum of 40% is required in the examination in each module. The year or semester mark of a module is obtained through continuous assessment of a student's performance during the module. It is a prerequisite that a student must satisfactorily complete the practical component of the module (if applicable). The method by which the year/semester mark will be obtained, is published in the

study guide of the module.

4.2 Examinations

The examinations for first-semester modules and the first- and second-quarter modules take place in May/June, while all other examinations (second-semester modules, third- and fourth-quarter modules and year modules) take place in October/November.

The final mark for the module/module is a combination of the year or semester mark and the examination mark, with the proviso that a module/module can only be passed if a subminimum of 40% is obtained in the examination and the practical component (if applicable) of the module/module has been satisfactorily completed. A final mark of at least 50% is required to pass a module/module. The year or semester mark must fall within a range of 40%-60% and the examination mark must fall within a range of 40%-60% of the final mark. Deviations from this rule can be approved by the Dean. The formula that is used to dequarterine the final mark will be specified in the study guide of the module.

4.3 Ancillary examinations

After completion of an examination and before the examination results are published, the examiners may summon a student for an ancillary examination on particular aspects of the work of that module.

4.4 Re-marking of examination papers (also consult Reg G.14)

After an examination, departments give feedback to students about the framework that was used by the examiners during the examination. The way in which feedback is given, is dequarterined by the departmental heads. Students may apply for re-marking of an examination paper after perusal and within 14 calendar days after commencement of lectures in the next semester. The prescribed fee has to be paid. The paper will then be re-marked by an examiner appointed by the head of the department.

4.5 Supplementary examinations

- (a) Supplementary examinations in first-semester modules take place after the May/June examinations, while those in second-semester and year modules take place after the October/November examinations.
- (b) To pass a supplementary examination, a student must obtain a minimum of 50%.
- (c) The highest final percentage a student can obtain in a supplementary examination is 50%.

4.6 Computer and Information Literacy (CIL 171, CIL 172, CIL 173, CIL 174)

- (a) It is a requirement for all new first-year students to register for modules in Computer and Information Literacy. Students may write an exemption test.
- (b) Students who passed the four modules WST 151, WST 152, WST 161 and WST 162 are exempted from CIL 172 and CIL 173.

4.7 Language Skills (EOT 151, EOT 152, EOT 153, EOT 154)

All new first-year students are required to write a language skills test. Based on the results of the test, a student will be enrolled in language development modules that have to be passed before the degree will be awarded. All students who pass the Language Skills test have to enrol for modules of equal value to make up the credits from the following: FIL152, FIL 153, FIL 155 or other language modules: AFT 151, AFT 152, AFR159, AFR160, ENG 151, ENG 152, ENG 153, ENG 154, EOT161, EOT162, EOT164, NDE 151, NDE 152, SEP 151, SEP 152, STW 151, STW 152 or ZUL 151, ZUL 152.

DEGREES AND DIPLOMAS CONFERRED AND AWARDED IN THE FACULTY

The following degrees and diplomas are presented in the Faculty (minimum period of study is given in brackets):

(a) Bachelor's degrees:

- (i) Baccalaureus Scientiae BSc (3 years)
- (ii) Baccalaureus Scientiae Agriculturae -- BSc(Agric) (4 years)
- (iii) Baccalaureus Institutionis Agrariae BInstAgrar (4 years)
- (iv) Baccalaureus Secundae Educationis (Scientiae) BSecEd(Sci) (4 years)
- (vii) Baccalaureus in Consumer Science BConsSc (4 years)

(b) Honours degrees: (1 year)

- (i) Baccalaureus Scientiae Honores BSc(Hons)
- (ii) Baccalaureus Institutionis Agrariae Honores BInstAgrar(Hons)

(c) Master's degrees: (1 year)

- (i) Magister Scientiae MSc
- (ii) Magister Scientiae Agriculturae MSc(Agric)
- (iii) Magister Institutionis Agrariae MInstAgrar
- (iv) Magister in Consumer Science MConsSc

(d) Doctor's degrees:

- (i) Philosophiae Doctor PhD (1 year)
- (ii) Doctor Scientiae DSc

(e) Diplomas:

- Diploma in Education with specialisation in Science for the Secondary Phase - (3 years)
- (ii) Postgraduate Diploma in Earth Science Management and Practice (2 years)
- (iii) Postgraduate Diploma in Geographical Information Systems (1 year)
- (iv) Postgraduate Diploma in Environment and Society (1 year)
- (v) Advanced Diploma in Extension and Rural Development (1 year)

(vi) Postgraduate Diploma in Clothing and Textiles - (1 year)

(f) Certificates:

- Advanced Certificate in Education (Mathematics and Computer literacy) (1 year)
- (ii) Advanced Certificate in Education (Computers and Telecommunication in Mathematics, Science and Technology Education) (2 years)
- (iii) Advanced Certificate in Education (Mathematics and Natural Sciences) (2 years)
- (iv) Advanced Certificate in Education (Technology) (2 years)

BACCALAUREUS DEGREES

GENERAL INFORMATION FOR DEGREES IN THE FACULTY

General Regulations G.1 to G.15 are applicable to a bachelor's degree.

Sc.1 Admission requirements

(i) Baccalaureus Scientiae (BSc)

- All study programmes excluding programmes in Information Technology and Mathematical Sciences:
 - A Grade 12 certificate with university exemption, with at least 50% (D symbol) in English or Afrikaans, Mathematics at higher grade and an adjusted M-score of at least 20.
- Study programmes in Mathematical Sciences and Information Technology:
 - A Grade 12 certificate with university exemption, with at least 50% (D symbol) in English or Afrikaans, Mathematics at higher grade and an adjusted M-score of 18.
- An adjusted M-score is calculated as follows:

Symbols	Higher grade	Standard grade
A symbol (80% and higher)	5	3
B symbol (70% to 79%)	4	2
C symbol (60% to 69%)	3	1
D symbol (50% to 59%)	2	0
E symbol (40% to 49%)	1	0

All study programmes excluding programmes in Information Technology and Mathematical Sciences:

The value for Mathematics is doubled as well as the highest value for either Physical Science or Biology.

Symbols	Higher grade	Standard grade
A symbol (80% and higher)	5	3
B symbol (70% to 79%)	4	2
C symbol (60% to 69%)	3	1
D symbol (50% to 59%)	2	0
E symbol (40% to 49%)	1	0

Study programmes in Mathematical Sciences and Information Technology:

In the case of seven or more subjects, the six best symbols are taken into account with due allowance for the requirements of specific courses.

(ii) Extended Programme: Mathematics and Computer Science (Code 02182003)

A Grade 12 certificate with university exemption, with at least 40% (E symbol) in English or Afrikaans and Mathematics at higher grade or 50% (D symbol) at standard grade. (An admissions test is compulsory for final admission.)

(iii) Extended Programme: Biological and Natural Sciences (Code 03182003)

 A Grade 12 certificate with university exemption, with at least 40% (E symbol) in English or Afrikaans, Mathematics and Physical Science at higher grade or 50% (D symbol) at standard grade. (An admissions test is compulsory for final admission.)

(iv) Baccalaureus Scientia Agriculturae (BSc(Agric))

 Selection for the BSc(Agric) degree courses is based on an adjusted M score, which is calculated as follows:

Symbols	Higher grade	Standard grade
A symbol (80% and higher)	5	3
B symbol (70% to 79%)	4	2
C symbol (60% to 69%)	3	1
D symbol (50% to 59%)	2	0
E symbol (40% to 49%)	1	0

The value for Mathematics is doubled as well as the highest value for either Physical Science or Biology.

In the case of seven or more subjects, the six best symbols are taken into account with due allowance for the requirements of specific courses.

- Candidates who have obtained at least a D symbol at higher grade in English or Afrikaans, Mathematics and Physical Science, with an adjusted minimum M-score of 20, qualify for admission to the BSc(Agric) four-year programme.
- Candidates who have obtained at least an E symbol at higher grade or a D symbol at standard grade in English or Afrikaans, Mathematics and Physical Science, with an adjusted M-score of at least 12, can be considered for admission to the extended programme. (An admissions test is compulsory).

(v) Baccalaureus Institutionis Agrariae (BInstAgrar)

Selection for the BInstAgrar degree course is based on an adjusted M score which is calculated as follows:

Symbols	Higher grade	Standard grade
A symbol (80% and higher)	5	3
B symbol (70% to 79%)	4	2
C symbol (60% to 69%)	3	1
D symbol (50% to 59%)	2	0
E symbol (40% to 49%)	1	0

The value for Mathematics is doubled as well as the highest value for either Physical Science or Biology or Agricultural Sciences.

In the case of seven or more subjects, the six best symbols are taken into account, with due allowance for the requirements of specific courses.

 Candidates who have obtained at least an E symbol at higher grade or a D symbol at standard grade in two of the following subjects Mathematics, Physical Science and Biology, and who have obtained at least an E symbol at higher grade or a D symbol at standard grade in English, with an adjusted M score of 12, qualify for admission to the BInstAgrar degree.

 Candidates who do not obtain the required M score, may be referred by the Dean for an admissions test. The Dean will then decide whether a student can be admitted.

(vi) Baccalaureus in Consumer Scienc (BConsSc)

(a) The curriculum of the B Consumer Science degree programme makes provision for a choice between the following possibilities:

Clothing Management: Retail Management and Small Business Management

Food Management Retail Management and Small Business Management

Interior Merchandise Management: Retail Management and Small Business Management

Development: Is only presented on a part-time basis and in English. **Admission requirements:**

 Clothing Management, Food Management and Interior Merchandise:

Matriculation exemption with at least 40% in Mathematics on Higher Grade and 50% at Standard Grade. (Physical Science is strongly recommended).

Development:

<u>Please note</u>: This option has temporarily been put on hold. No new students will be admitted until further notice.

(a) The curriculum of the B Consumer Science (Ed) degree programme offers the following possibilities:

Home Economics or Hotel-keeping and Catering.

Admission requirements:

Home Economics: Matriculation exemption with at least 40% on Higher Grade and 50% at Standard Grade in Mathematics.

Hotel-keeping and Catering:

Matriculation exemption with at least 40% on Higher Grade and 50% at Standard Grade in Mathematics.

(vii) Baccalaureus Secundae Educationis (Scientiae)(BSecEd(Sci)) See Sc 7.6

Admission requirements of specific modules is set out in Par. 1.2

Sc.2 Duration

BSc

The minimum duration of study is three years.

BSc(Agric), BInstAgrar, BConsSc, BSecEd(Sci)

The minimum duration of study is four years full-time study

Sc.3 Study programmes

The curricula are compiled from the study programmes in Sc. 7 or an alternative study programme as approved by the Dean.

Sc.4 Compilation of the curriculum

BSc

A student must obtain at least 440 course credits to comply with the requirements for the BSc degree programme. At least 144 credits must be obtained at 300/400 level. A maximum of 176 credits will be recognised at 100 level. A student may, in consultation with the Dean, follow modules not indicated in BSc three-year study programmes to the equivalent of a maximum of 36 course credits. The credits allotted per semester to each elective course should be regarded as a guideline only and not as an instruction. It is, however, important that the total number of prescribed elective course credits are completed during the course of the study programme. The Dean may, on the recommendation of the head of department, approve deviations in this regard.

A student may not register for more than 110 course credits per semester, unless it is with the permission of the Dean.

Students who are already in possession of a bachelor's degree, will not receive credit for more than half the credits passed previously passed for that degree.

Promotion requirements:

A student will be promoted to the following year of study if less than 50 credits need to be carried over, unless the Dean on the recommendation of the head of department decides otherwise. A student who does not comply with the requirements of promotion to the following year of study, retains the credit for the courses already passed and may be admitted by the Dean, on recommendation of the head of department, to courses of the following year of study to a maximum of 50 credits, provided that it will fit in with the timetable.

BSc Extended programme

Extended modules: (For students who register for the BSc: Extended Programme.)

The following modules are available:

CMY 101 First course in Chemistry

(equivalent course: CMY 117)

CMY 102 General Chemistry

(equivalent course: CMY 127)

PHY 101 General Physics

(equivalent course:

PHY 131 and portion of PHY 171)

PHY 102 Mechanics and Electricity

(equivalent course: portion of PHY 171) (**NB**: Both PHY 101 and 102 must be passed for exemption from PHY 171 (year

module)

WTW 101 Mathematics 101

(equivalent course: WTW 114)

WTW 102 Mathematics 102

(equivalent courses: WTW 126, 128)

A student is admitted to these courses only once.

Compulsory introductory modules for the Extended Programme CIL 171, 172,

CIL 173, 174 Computer and Information Literacy

COS 160 Computer Science

NB: COS 160 may not be taken if a student obtained a D-symbol at higher grade in Computer Studies in grade 12. If a student passed at standard grade, COS 160 may be taken.

SCI 152	Computer and Problem-solving Skills 152
SCI 153	Academic Proficiency 153
SCI 162	Computer and Problem-solving Skills162
SCI 163	Basic Research Skills 163

Combinations not allowed: Students may not register for SCI 152 at the same time as CIL 171, CIL 172. Students may not register for SCI162 at the same time as CIL173. CIL174.

Students who complete SCI 152 successfully, are exempted from CIL 171 and CIL 172 and may register for COS 160.

Students who complete SCI162 successfully are exempted from CIL 173 and CIL174.

EOT 151	Language Skills 151
EOT 152	Language Skills 152
EOT 153	Language Skills 153
EOT 154	Language Skills 154

BSc (Agric)

The minimum course credits needed to comply with degree requirements is set out at the end of each study programme.

Students must register for optional course credits in consultation with the head of department who must ensure that the courses do not clash on the set time table.

The Dean may, in exceptional cases and on recommendation of the head of department, approve deviations from the prescribed curriculum.

Promotion requirements:

A student will be promoted to the following year of study if less than 50 credits need to be carried over, unless the Dean on the recommendation of the head of department decides otherwise. A student who does not comply with the requirements of promotion to the following year of study, retains the credit for the modules already passed and may be admitted by the Dean, on recommendation of the head of department, to courses of the following year of study to a maximum of 50 credits, provided that it will fit in with the timetable.

BInstAgrar

The minimum course credits needed to comply with degree requirements is set out at the end of each study programme.

Students must register for optional course credits in consultation with the head of department who must ensure that the courses do not clash on the set time table.

Promotion requirements:

A student will be promoted to the following year of study if less than 44 credits need to be carried over, unless the Dean on the recommendation of the head of department decides otherwise. A student who does not comply with the requirements of promotion to the following year of study, retains the credit for the courses already passed and may be admitted by the Dean, on recommendation of the Head of Department, to courses of the following year of study to a maximum of 44 credits, provided that it will fit in with the timetable.

BConsSc

Admission to the next year of study.

(i) All the degrees in Home Economics (except part-time studies)

A student who did not pass all the prescribed modules of a particular year of study, has to register for the outstanding modules first. With the approval of the head of the department, modules of the following year of study may be taken in advance only if no timetable clashes occur; all the requirements and prerequisites have been met and not more than a specified number of credits per semester are taken. The credits of the semester of which modules are repeated, are taken as a guideline for the calculation of the number of credits permitted.

- (aa) A student registers for the second year when at least 80% of the first-year course units have been passed.
- (bb) A student registers for the third year when at least 85% of the course units of the previous years have been passed.
- (cc) A student registers for the fourth year when at least 95% of the course units of the previous years have been passed.

(ii) Part-time students

A student is allowed to register for the next year of study only if at least the equivalent of four semester courses (eight modules, including courses not presented in the department) have been passed. A student is allowed to the modules KLD 320, GSS 310 and BEH 310 when the following courses have been passed.

- · At first-year level: Psychology, Sociology and
- At second-year level: Psychology and Sociology.
- For admission to VBF 451 and VBF 452 the same prerequisites are required as well as Business Management at first-year level.

BSecEd(Sci)

See Sc.7.6

Sc.5 Special examinations in the Faculty of Natural and Agricultural Sciences

A student who requires a maximum of two modules to comply with all the requirements for the degree, may be admitted by the Dean, on the recommendation of the head of department, to special examinations in modules failed, provided that this will enable him or her to comply with all the degree requirements. A student who has obtained a final mark of less than 40% in any one of the relevant modules, or who has previously been admitted to a special examination, does not qualify for this concession.

Sc.6 Degree with distinction

BSc

A student obtains his or her degree with distinction if all prescribed modules are passed at 300 level (or higher) in one academic year with a weighted average of at least 75%, and at least 65% in each of the relevant courses.

BSc(Food Management)

A student obtains his or her degree with distinction if an average of at least 75% is obtained in the following courses:

Business Management 310

Food Science 451, 452, 463

Food service Management 451, 452

Food Science and Technology 461.

BSc(Agric)

The BSc(Agric) degree is conferred with distinction if a student obtains a weighted average of at least 75% in the courses of the major subjects in the third and the fourth year of study, with a weighted average of at least 65% in the other modules of the third and the fourth year of study.

BInstAgrar

The BInstAgrar degree is conferred with distinction on a student who obtains a weighted average of at least 75% in the courses of the major subjects in the third and the fourth year of study, as well as a weighted average of at least 65% in the other modules of the third and the fourth year of study.

BConsSc

A student obtains his or her degree with distinction if a student obtains an average of at least 75% in the following courses:

(i) Clothing Management:

Clothing Retail Management:

Subjects equivalent to six semester subjects

Marketing Management 351, 352,361,362

Clothing 410, 411, 420

Clothing Production 420

Project: Clothing and Textiles 400

Textiles 420

Clothing Small Business Management:

Subjects equivalent to six semester subjects

Business Management 351, 352, 361, 362

Clothing 412, 411, 421

Clothing Production 320, 410, 420

Project: Clothing and Textiles 400

Entrepreneurship 313, 323

Textiles 420

(ii) Food Management

Food Retail Management:

Any six of the following semester subjects (one subject = one semester course or two modules)

Business Management 310

Marketing Management 351, 352, 361, 362

Foods 310, 353, 354, 320, 413, 415, 423, 425

Hospitality Management:

Tourism Management 320

Business Management 310, 320

Project Hospitality Management 451, 461

Foods 320, 414, 424

Foodservice Management 410

(iii) Interior Merchandise Management

Interior Retail Management:

A combination equal to six semester subjects:

Marketing Management 351, 352, 361, 362

Interior Planning 320, 410

Interior Production 310

Interior Merchandise 220, 310

Interior Project 480

Consumer Facilitation 410

Interior Merchandise Small Business Management:

A combination equal to six semester subjects:

Business Management 313, 323

Interior Planning 320, 410

Interior Production 310

Interior Merchandise 220, 310

Interior Project 480

Consumer Facilitation 410

(iv) Ed:

Home Economics:

The degree is conferred with distinction on a student who obtains an average of at least 75% in the following courses:

SCE 400, 402, VBM 400, VHK 400 and any other four of the

following courses:

BEH 310, KLD 320, VBF 410, VDS 320 and VWP 410

Hotel-keeping and Catering:

The degree is conferred with distinction on a student who obtains an average of at least 75% in the following courses:

SCE 400, 402, VBM 400, VHS 400 and any other four of the following:

VDB 320, VDG 310, VDS 320, 414, 424, TBE 320

BSecEd(Sci)

See Sc.7.6

Sc.7 STUDY PROGRAMMES

The curriculum is composed of one of the following study programmes. The Dean may, on the recommendation of the programme manager, approve deviations in this regard.

Sc.7.1 GENERAL INFORMATION

- (i) Study programmes in the Department of Earth Science: Students will be informed timeously of compulsory excursions that could take place during the vacations. The attendance of excursions for first-year students is compulsory, while excursions of longer duration are compulsory for senior students.
- (ii) Students who have passed all their courses after the first two years (within a period of two years) of the BInstAgrar(Rural Development Management) with an average mark of 60% and, who would like to specialise in Agricultural Economics, can apply to the Head of Department to be admitted to the third year of the BSc(Agric): Agricultural Economics/Agribusiness degree programme. This only applies to students who are registered for the BInstAgrar: Rural Development Management degree programme.
- (iii) Students who register for COS- courses must take note of the following:
 - Prohibited course combinations:
 COS 110 and INF 151; COS 221 and INF 251, 252; COS 222 and INF 261, 262; COS 301 and INF 351, 352, 353 and 363.
 - Third-year modules in Computer Science will not necessarily always all be presented in the same year and COS 343 and COS 344 can be presented in alternate years.
 - Students must pass at least three Computer Science modules at second-year level, before admission to the Computer Science courses at third-year level will be permitted, unless special permission has been granted by the head of department.

(ii) Courses to be chosen as electives credits and that are not specified, may be chosen from any courses appearing in the Syllabus.

(iii) List of Codes

Dept = Department in which the course is presented

Faculty of Natural and Agricultural Sciences

BCM = Department of Biochemistry

BOT = Department of Botany

CMY = Department of Chemistry

COS = Department of Computer Science

FLG = Department of Physiology

FSK = Department of Physics

GGY = Department of Geography, Geoinformatics and Meteorology

GLY = Department of Geology
GTS = Department of Genetics

LEK = Department of Agricultural Economics, Extension and Rural Development

MBY = Department of Microbiology and Plant Pathology PGW = Department of Plant Production and Soil Science

SCE = Centre for Science, Mathematics and Technology Education

SCI = Gold Fields Computer Centre for Education

SEF = Centre for Science, Mathematics and Technology Education

VBR = Department of Consumer Science

VDW = Department of Food Science

VKU = Department of Animal and Wildlife Sciences

VWT = Department of Insurance and Actuarial Sciences

WST = Department of Mathematical Statistics

WTW = Department of Mathematics and Applied Mathematics

ZEN = Department of Zoology and Entomology

Faculty of Economic and Management Sciences

BDO = Department of Human Resource Management

BEM = Department of Marketing and Communication Management

EKN = Department of Economics

FRK = Department of Accounting and Financial Management

INF = Department of Informatics

OBS = Department of Business Management

TBE = Department of Tourism Management

Faculty of Humanities

EOT = Unit for Development of Language Skills

VKK = Department of Visual Arts
KGK = Department of Visual Arts
SLK = Department of Psychology
SOC = Department of Sociology

Faculty of Engineering, Built Environment and Information Technology

CIR = Department of Chemical Engineering

IGB = Department of Engineering Management

LBI = Department of Civil and Biosystems Engineering

MIT = Department of Mechanical and Aeronautical Engineering

SWK = Department of Civil and Biosystems Engineering

Faculty of Health Sciences

ANA = Department of Anatomy
FAR = Department of Pharmacology

Not faculty bound
DML = Damelin

lpw/ppw: lectures per week/ practicals per week (e.g.: 3+1 = 3 lectures and 1

practical per week)

Quarter: The quarter in which the specific course/module is presented.

J1 = the whole year (year module: extends over two semesters)

S1 =the first semester (K1 + K2); S2 =the second semester (K3 + K4)

K1 = first quarter; K2 = second quarter; K3 = third quarter; K4 = fourth quarter

Credits: Credit value of a module.

#: This symbol implies a module must be taken either before or concurrent with the course for which it is a prerequisite.

TDH: Approval from the head of department is required to register for the course.

Par 1.2 and Par 2.2: Refers to the requirements for specific courses that appear at the beginning of this publication

Please note: The credit values of the courses appear in the Crdt column.

Field of study	Dept	Code
BSc Animal Science	VKU	03134002

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt

BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] a	nd	S2	4	1 1	16
DIVIL 120	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%		32	+	'	10
	(SG) Grade 12 Mathematics or an equivalent Mathematics	,				
	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]		S2	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173		K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or		S2	4	1	16
	CMY101]					
EOT153	LANGUAGE_PROFICIENCY(3)_153		K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	or	S2	2	0.5	8
	[TDH]					
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11	7]	S2	2	0.5	8
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter			22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)				
Second y	year, first semester:					
Code	Name	Qr	t Ip	ow	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1		2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1		2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]		<u> </u>			
DAF250	ANIMAL_ANAT&_PHYSIOLOGY_250 Prerequisite/s:	S1	1	4	1	18
	[CMY127] or [TDH]		-	_		
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1		2	0.5	12
MDVOE4	[GTS161 GS] or [TDH]	- 04	+	_	1	40
MBY251	<u> </u>	S1		2	1	12
VDC250	[MBY161 GS]	S1	+	3	0.5	12
	NUTRITION_250 Prerequisite/s: [CMY127] ANIMAL SCIENCE 210	S1	_	1	0.5	6
VKU210		31	_		.5/4.5	42/42
1	Totals for compulsory modules in the first/second quarter		10	, 10 4	.5/4.5	42/42
Second	/ear, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117		S2	1pw 2	0.5	12
DONIZOT	GS] and [CMY127 GS] and [MLB111 GS]		02		0.5	14
BCM262	BIOCHEMISTRY IN PERSPECT. 262 Prerequisite/s: [CMY117		S2	2	0.5	12
20111202	GS] and [CMY127 GS] and [MLB111 GS]		52	~	0.5	<u>''</u>
DAF260			S2	4	1	18
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 G	SI	S2	2	0.5	12
]	or [TDH]	- 1		l -		'-
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY1	61]	S2	2	1	12
VKU220			S2	2	0.5	12
	Totals for compulsory modules in the third/fourth quarter			14/14	4/4	39/39
	·			-		
	Compulsory credits = (162) Elective credits = (0)				
<u> </u>	(112)					

Third yea	r, first semester:						
Code	Name	Qrt	lpw	ppw	/	Crdt	
BCM355	IMMUNOBIOLOGY_355 Prerequisite/s: [BCM251] and S1 [BCM252] and [BCM261] and [BCM262]		1	0.5		9	
DAN310	ANIMAL_ANATOMY_310 Prerequisite/s: [DAF250] and [DAF260]	S1	1	0.5		8	
DFS311	ANIMAL_PHYSIOLOGY_311 Prerequisite/s: [DAF250] and [DAF260]	S1	2	0		10	
GTS352	GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or [TDH]	S1	2	1		18	
RPL310	REPRODUCTION_SCIENCE_310 Prerequisite/s: [DAF250] and [DAF260]	S1	1	0.5		8	
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and [VKU220]	J1	3 0.5			16	
VKU412	RESEARCH_METHODOLOGY_412 Prerequisite/s: [TDH]	S1	1	0		8	
WDE250	PRINCIPLES_OF_VELD_MANAGM250	S1	2	0.5		12	
Totals for compulsory modules in the first/second quarter				3.5/3	.5 44	.5/44.5	
Third yea	r, second semester:						
Code	Name		Qrt	lpw	ppw	Crdt	
BCM363	XENO_BIOCHEMISTRY_363		K4	1	0	5	
DFS320	GROWTH_PHYSIOLOGY_320 Prerequisite/s: [DAN310] and [DFS311]		S2	2	0.5	10	
GTS361	HUMAN_GENETICS_361 Prerequisite/s: [GTS251 GS] and [GGS] or [TDH]	TS261	S2	2	1	18	
TLR320	LIVESTOCK_BREEDING_320 Prerequisite/s: [GTS261]		S2	2	0.5	10	
VGE301	GE301 NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and [VKU220]		J1	3	0.5	16	
VKU361	/KU361 ANIMAL_ECOLOGY_361 Prerequisite/s: [VKU210] and [VKU220]		S2	2	0	8	
VKU362		26]	S2	1	0.5	8	
	Totals for compulsory modules in the third/fourth quarter			12/13	3/3	35/40	

Field of study	Dept	Code
BSc Applied Mathematics	WTW	02133252

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
WST110	MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16

WTW115	DISCRETE_STRUCTURES_115 Prerequisite/s: [Par 1.2]	S1	2	1	8
	MATHEMATICAL_MODELLING_152 Prerequisite/s: [Par 1.2]	S1	2	1	8
	Totals for compulsory modules in the first/second quarter		16/14	4/4	30/27
	·			•	
First vear	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	COMPUTER & INFORM.LITERACY 174	K4	2	0	3
	COMPUTER SCIENCE 160 Prerequisite/s: [Par 1.2; students who	S2	4	1	16
	passed Computer Studies HG on grade 12 level will be exempted]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
WST120	MATHEMATICAL_STATISTICS_120 Prerequisite/s: [WST110 GS]	S2	4	1	16
WTW123	NUMERICAL_ANALYSIS_123 Prerequisite/s: [WTW114 GS or	S2	2	1	8
	WTW101 GS]				
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8
WTW162	DYNAMIC_PROCESSES_162 Prerequisite/s: [WTW114 GS or	S2	2	1	8
	WTW101 GS] and [WTW152 GS]				
	Totals for compulsory modules in the third/fourth quarter		18/20	6/6	35/38
Students v	who passed Computer studies HG at grade 12 level, may be exempt	ed fr	om CC)S160).
	Compulsory credits = (130) Elective credits = (22)				
Second y	ear, first semester:				
Code	Name	G	rt Ipw	ppw	Crdt
WTW211	LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102]	S	1 2	1	12
WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and	S	1 2	1	12
	[WTW128 or WTW102]				
	Totals for compulsory modules in the first/second quarter		4/4	2/2	12/12
Second y	ear, second semester:				
Code	Name		rt Ipw	ppw	Crdt
WTW220	ANALYSIS_220 Prerequisite/s: [WTW114 or WTW101] and [WTW12 or WTW102]	8 S	2 2	1	12
WTW221	LINEAR_ALGEBRA_221 Prerequisite/s: [WTW211]	S	2 2	1	12
WTW285	DISCRETE_STRUCTURES_285 Prerequisite/s: [WTW115]	S	2 2	1	12
WTW286	DIFFERENTIAL_EQUATIONS_286 Prerequisite/s: [WTW114 or	S	2 2	1	12
	WTW101] and [WTW126 or WTW102] and [WTW128 or WTW102]				
	Totals for compulsory modules in the third/fourth quarter		8/8	4/4	24/24
	Compulsory credits = (72) Elective credits = (72)				
Third vea	r, first semester:				
Code	Name	C	rt lpw	ppw	Crdt
	ANALYSIS_310 Prerequisite/s: [WTW220]	S		1	18
	DYNAMIC_SYSTEMS_382 Prerequisite/s: [WTW220] and [WTW286		1 2	1	18
	Totals for compulsory modules in the first/second quarter	, , ,	4/4	2/2	18/18
			., .		. 5, . 0
Third ves	r. second semester:				
Third yea Code	r, second semester: Name	0	rt Ipw	ppw	Crdt

WTW383 NUMERICAL_ANALYSIS_383 Prerequisite/s: [WTW114 or WTW101]	S2	2	1	18
and [WTW128 or WTW102] and [WTW211]				
WTW385 DISCRETE_STRUCTURES_385 Prerequisite/s: [WTW126 or	S2	2	1	18
WTW102] and [WTW218] and [WTW285]				
WTW386 PARTIAL_DIFF_EQUATIONS_386 Prerequisite/s: [WTW218] and	S2	2	1	18
[WTW286]				
Totals for compulsory modules in the third/fourth quarter		6/6	3/3	27/27

A minimum of 136 credits at 100 to 300 level can be chosen from any WTW, IAS, PHY, CMY, COS or WST modules. The remainder of the electives at 100 to 300 level can be chosen from any other modules in the syllabi of this faculty.

Compulsory credits = (90) Elective credits = (54)

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Biochemistry	BCM	03133001

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				
	achievement.]				
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8
	[TDH]				
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8
	and [MLB111]				
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34

	Compulsory credits = (152) Elective credits = (0)				
Second v	vear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS]		2	0.5	12
DOWEST	and [CMY127 GS] and [MLB111 GS]	0		0.5	12
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS]	S1	2	0.5	12
20202	and [CMY127 GS] and [MLB111 GS]		-	0.0	
BCM271	BIOCHEMISTRY_PRACTICAL_271 Prerequisite/s: [BCM251 #] and	J1	0	1	6
	[BCM252 #] and [BCM261 #] and [BCM262 #] and [CMY283 #] and				
	[CMY284 #]				
CMY282	PHYSICAL_CHEMISTRY_282 Prerequisite/s: [CMY117 or CMY101	K1	4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102] and [WTW114				
	GS or WTW134 GS or WTW158 GS]				
CMY284	ORGANIC_CHEMISTRY_284 Prerequisite/s: [CMY117 or CMY101	K2	4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102]				
	Totals for compulsory modules in the first/second quarter		8/8	3/3	27/27
Second y	rear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS]	S2	2	0.5	12
	and [CMY127 GS] and [MLB111 GS]				
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS]	S2	2	0.5	12
	and [CMY127 GS] and [MLB111 GS]				
BCM271	BIOCHEMISTRY_PRACTICAL_271 Prerequisite/s: [BCM251 #] and	J1	0	1	6
	[BCM252 #] and [BCM261 #] and [BCM262 #] and [CMY283 #] and				
	[CMY284 #]				
CMY283	ANALYTICAL_CHEMISTRY_283 Prerequisite/s: [CMY117 or CMY10]	1 K3	4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102]				
CMY285	INORGANIC_CHEMISTRY_285 Prerequisite/s: [CMY117 or CMY101	K4	4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102]				
	Totals for compulsory modules in the third/fourth quarter		8/8	3/3	27/27
Electives	can be chosen from Genetics, Microbiology, Human Physiology, Bot	any o	r Zoo	ology	
	Compulsory credits = (108) Elective credits = (48)				
Third yea	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BCM351	BIOCHEMISTRY_OF_PROTEINS_351 Prerequisite/s: [BCM251]	K1	2	1	9
BCM352	PROTEOME_ANALYSIS_352 Prerequisite/s: [BCM251] and [BCM351	K2	2	1	9
	GS]				
BCM354	BIOCHEMOF_NUCLEIC_ACIDS_354 Prerequisite/s: [BCM251] and	I S1	1	0.5	9
	[BCM252] and [BCM261] and [BCM262]				
BCM355	IMMUNOBIOLOGY_355 Prerequisite/s: [BCM251] and [BCM252] and	S1	1	0.5	9
	[BCM261] and [BCM262]				
Totals for compulsory modules in the first/second quarter			4/4	2/2	18/18
Third yea	ar, second semester:				
Code		rt Ip	w pp	w	Crdt
		(3 1		_	4
		'			

BCM363 XENO_BIOCHEMISTRY_363	K4	1	0	5		
BCM364 BUILDING_THE_CELL_364	S2	1	0.5	9		
BCM365 IMMUNOBIOCHEMISTRY_365 Prerequisite/s: [BCM355 GS]	S2	1	0.5	9		
BCM366 ENZYMOLOGY_366	S2	1	1	9		
Totals for compulsory modules in the third/fourth quarter				17.5/18.5		
Electives can be chosen from Genetics, Microbiology, Human Physiology, I	3otan	y or	Zoolo	gy.		
Compulsory credits = (72) Elective credits = (72)						
A minimum of (452) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc Biological Sciences	ADM	03130001

First vea	r, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16	
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16	
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16	
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38	
First year	r, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16	
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%					
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3	
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16	
	CMY101]					
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3	
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8	
	[TDH]					
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8	
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8	
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34	
Generic fi	irst-year modules in Biological Sciences.					
Students who wish to apply for selection to Voterinary Sciences must register for those modules						

Students who wish to apply for selection to Veterinary Sciences must register for these modules.

Field of study	Dept	Code
BSc Biotechnology	GTS	03133052

First year	First year, first semester:							
Code	Name		Qrt	lpw	ppw	Crdt		
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3		
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3		
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16		
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3		
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3		
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16		
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16		
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16		
	Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38		
First year	r, second semester:							
Code	Name	_	Qrt	lpw	ppw	Crdt		
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] are		S2	4	1	16		
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%							
	(SG) Grade 12 Mathematics or an equivalent Mathematics							
DOTAGA	achievement.]	4.	00	0	0.5	0		
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	_	S2	2	0.5	8		
	COMPUTER_&_INFORM.LITERACY_173	_	K3	2	0	3		
	COMPUTER_&_INFORM.LITERACY_174 GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	_	K4	2	0	3		
CIVIT 127	CMY101]	ď	S2	4	1	16		
EOT153	LANGUAGE_PROFICIENCY(3)_153	+	K3	2	0	3		
	LANGUAGE_PROFICIENCY(4)_154	_	K4	2	0	3		
	INTRODUCTORY GENETICS 161 Prerequisite/s: [MLB111 GS]	_	S2	2	0.5	8		
010101	[TDH]	~	~	-	0.0	Ü		
MBY161	INTRODUCTION TO MICROBIOLO.161 Prerequisite/s: [CMY11]	71 :	S2	2	0.5	8		
	and [MLB111]							
ZEN161	ANIMAL_DIVERSITY_161		КЗ	4	1	8		
	Totals for compulsory modules in the third/fourth quarter			22/18	5/4	42/34		
	Compulsory credits = (152) Elective credits = (0)						
Second y	ear, first semester:							
Code	Name	Qrt	lр	w p	pw	Crdt		
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	2 (0.5	12		
	GS] and [CMY127 GS] and [MLB111 GS]							
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	2 (0.5	12		
	GS] and [CMY127 GS] and [MLB111 GS]							
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or	S1	2	2	1	12		
07005	[TDH]	0.4	<u> </u>	. 		40		
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1	2	<u>'</u> '	0.5	12		
MDV254	[GTS161 GS] or [TDH] GROWTH_DIVERS.& CONTROL/BAC.251 Prerequisite/s:	S1	_	,	1	12		
IVIB Y 251	GROWTH_DIVERS.& CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	51	2	<u> </u>	1	12		
	[ויט זיטן זיטוין							

7EN251	INVERTEBRATE_BIOLOGY_251	K1	4		1	Т	12
ZLIVZOT	Totals for compulsory modules in the first/second quarter	1111	14/		4.5/		42/30
	Totals for compulsory modules in the mistisecond quarter		1-1/	10	4.0/	0.0	72/00
Second v	year, second semester:						
Code	Name	Qrt	lp	N	pp	w	Crdt
	LIPID & NITROGEN METABOLIS.261 Prerequisite/s: [CMY117]	S2	2		0.3	_	12
	GS] and [CMY127 GS] and [MLB111 GS]						
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	S2	2		0.	5	12
	GS] and [CMY127 GS] and [MLB111 GS]						
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161]	S2	2		1		12
	and [CMY117] and [CMY127] or [TDH]						
GTS261	, .	S2	2		0.	5	12
	GS] or [TDH]						
MBY261		S2	2		1		12
7EN204	[MBY161] AFRICAN VERTEBRATES 261	K3	4		1	+	12
ZEN261	Totals for compulsory modules in the third/fourth quarter	Nβ	_		4.5/	_	42/30
	rotals for compulsory modules in the tilliu/lourin qualter		14/	íU	7.∪/	J.J	72/30
	Compulsory credits = (144) Elective credits = ((0)					
	Compaisory creates = (144) Elective creates = (<u>(U)</u>					
Third vea	ar, first semester:						
Code	Name	Qrt	lpw		opw	(Crdt
BCM351	BIOCHEMISTRY_OF_PROTEINS_351 Prerequisite/s:	K1	2	T	1		9
	[BCM251]						
BCM354	BIOCHEMOF_NUCLEIC_ACIDS_354 Prerequisite/s:	S1	1		0.5	9	
	[BCM251] and [BCM252] and [BCM261] and [BCM262]			<u> </u>			
GTS352	GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS]	S1	2		1	18	
	or [TDH]		F /0	_	-/4 -		
	Totals for compulsory modules in the first/sec ond quarter		5/3	2.	5/1.5	22.	5/13.5
	ar, second semester:		- 1,	7-4	lmire		Cualt
Code	Name GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251	1 000	_	Qrt S2	lpw 2	ppw 1	Crdt 18
IVID 1 304	[CMY127] and [MBY161]	j and	י ו	52			10
	Totals for compulsory modules in the third/fourth quarter				2/2	1/1	9/9
	The second secon						-, -, -
Electives	can be chosen from the following list of modules: BOT352, BOT3	53. E	зот	354	l. BO	T36	1.
	BCM353, BCM365, BCM362, BCM364, FAR305, GTS351, GTS35						
GTS363,	MBY351. MBY352, MBY353, MBY361, MBY362, MBY363, PLG35	1, P	LG3	61,	PLG	363,	
ZEN364,	ZEN365 or in consultation with one of the Heads of Department i	n the	Sc	hoc	of E	Biolo	gical
Sciences							
	o focus the Biotechnology degree in a specific discipline it is nec	essa	ry to	er	sure	that	at
ieast thre	ee of the electives fall within the same discipline.						
	Compulsory credits = (54) Elective credits = (9	10)					
	Compaisory Credits = (34) Elective Credits = (8	,0)					
A minim	um of (440) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc Botany	BOT	03133091

First vear	r, first semester:					
Code	Name	(Qrt	wal	ppw	Crdt
CIL171	COMPUTER & INFORM.LITERACY 171		K1	2	0	3
CIL172	COMPUTER & INFORM.LITERACY 172		K2	2	0	3
	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16
	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
	GENERAL PHYSICS 131 Prerequisite/s: [Par 1.2]		S1	4	1	16
	MATHEMATICS 134 Prerequisite/s: [Par 1.2]		S1	4	1	16
VV I VV I 34			<u>ي</u>	_		
	Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38
	r, second semester:	- 1	_			
Code	Name		Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] a		32	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%	•				
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
207101	achievement.]	_				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]		32	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173		(3	2	0	3
	COMPUTER_&_INFORM.LITERACY_174	_	⟨4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	5	52	4	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153	ŀ	(3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154		(4	2	0	3
	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] [TDH]	_	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11 and [MLB111]	7] 5	S2	2	0.5	8
ZEN161	ANIMAL DIVERSITY 161	- k	(3	4	1	8
ZEITIOI	Totals for compulsory modules in the third/fourth quarter		_	22/18	5/4	42/34
	Totalo for compansory modulos in the tima/fourth quarter			22/10	0/ 1	12/01
	Compulsory credits = (152) Elective credits = (0)				
Second v	oor first competer.					
Code	ear, first semester: Name	Qrt	lnı		nnu/	Crdt
	INTRO. TO PROT. & ENZYMES 251 Prerequisite/s: [CMY117	QII S1	lp ¹		opw 0.5	Crdt 12
	GS] and [CMY127 GS] and [MLB111 GS]	51			0.5	12
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	2	0.5	12
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH]	S1	2	2	1	12
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH]	S1	2	2	0.5	12
MBY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	S1	2	2	1	12
ZEN251	INVERTEBRATE BIOLOGY 251	K1	4	-	1	12
ZENZOI			_		1 5/3.5	42/30
	Totals for compulsory modules in the first/second quarter		14/	10 4.	S/3.5	42/30
	ear, second semester:		_	-		
Code	Name	Qrt	Ιp	w	pw	Crdt

BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	2	1		12	
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4 1			8	
GLY162	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	1		8	
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161	S2	2	0.	5	12	
	GS] or [TDH]						
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s:	S2	2	1		12	
	[MBY161]						
ZEN261	AFRICAN_VERTEBRATES_261	K3	4	1		12	
	Totals for compulsory modules in the third/fourth quarter		14/10	4.5/	3.5	38/26	
	Compulsory credits = (136) Elective credits = (8	3)					
Third yea	ar, first semester:						
Code	Name		Qrt	lpw 2	ppw	Crdt	
BOT351	BOT351 POPULATION_BIOLOGY_351 Prerequisite/s: [BOT161] or [TDH]					18	
BOT353 ECOPHYSIOLOGY_353 Prerequisite/s: [BOT161] or [TDH]					1	18	
Totals for compulsory modules in the first/second quarter					2/2	18/18	
BOT352	(18) may be selected in addition to or instead of BOT351 (18).						
BOT354	(18) may be selected in addition to or instead of BOT353 (18).						
Third yea	ar, second semester:						
Code	Name		Qrt	lpw	ppw	Crdt	
BOT361	NATURAL_PRODUCT_CHEMISTRY_361 Prerequisite/s: [BOT161]] or	S2	2	1	18	
	[TDH] and [CMY117] or [TDH] and [CMY127] or [TDH]						
	Totals for compulsory modules in the third/fourth quarter			2/2	1/1	9/9	
	(18) may be selected in addition to or instead of BOT361 (18).						
	logy students: BOT363 (18) and ZEN364(18).	_		_			
Plant Phy	ysiology/Biotechnology/Biodiversity students: suitable elective mod	dule	S.				
	Compulsory credits = (54) Elective credits = (90))					
A minim	um of (440) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc Chemistry	CMY	02133172

First year	, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	16	
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16	
	Totals for compulsory modules in the first/second quarter		16/16	3/3	30/30	
First year, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3	

011.474	DOMPLITED & INCORMALITEDADY 474	12.4	_	T 0	_
CIL174		K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
FOTATO	CMY101]	1/0	_		_
	_	K3	2	0	3
		K4	2	0	3
		J1	4	1	16
		S2	2	1	8
WTW128		S2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		16/16	4/4	30/30
	Compulsory credits = (120) Elective credits = (32)				
	ear, first semester:	١.		_	0 11
Code	Name	Q			Crdt
CMY282	PHYSICAL_CHEMISTRY_282 Prerequisite/s: [CMY117 or CMY101	K	1 4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102] and [WTW114 GS or WTW134 GS or WTW158 GS]				
CMV204	ORGANIC_CHEMISTRY_284 Prerequisite/s: [CMY117 or CMY101	K	2 4	1	12
	and CMY102] and [CMY127 or CMY101 and CMY102]	I ⁿ .	2 4	'	12
	Totals for compulsory modules in the first/second quarter		4/4	1/1	12/12
Second v	ear, second semester:		4/4	1/1	12/12
Code	Name	Q	rt Ipw	ppw	Crdt
	ANALYTICAL CHEMISTRY 283 Prerequisite/s: [CMY117 or CMY101	_		1	12
CIVI 1 203	and CMY102] and [CMY127 or CMY101 and CMY102]	17.	3 4	'	12
CMV285	INORGANIC CHEMISTRY 285 Prerequisite/s: [CMY117 or CMY101	K	4 4	1	12
CIVI 1 203	and CMY102] and [CMY127 or CMY101 and CMY102]	'	7 7	l '	12
	Totals for compulsory modules in the third/fourth quarter		4/4	1/1	12/12
	rotate for companion, mediated in the timerrount quarter		.,	.,,	12, 12
Flectives	can be chosen from modules in the following departments: Geograph	, G	eoinfo	ormati	rs and
	gy, Geology, Biochemistry, Zoology and Entomology, Physics, Botar				
	ics and Applied Mathematics.	.,, -	,p		0.000,
	Compulsory credits = (48) Elective credits = (96)				
	· · · · · · · · · · · · · · · · · · ·				
Third yea	r, first semester:				
Code	Name	Q	rt Ipw	ppw	Crdt
CMY383	ANALYTICAL_CHEMISTRY_383 Prerequisite/s: [CMY282] and	K	2 4	1	18
	[CMY283] and [CMY284] and [CMY285]	\perp			
CMY385	INORGANIC_CHEMISTRY_385 Prerequisite/s: [CMY282] and	K	1 4	1	18
	[CMY283] and [CMY284] and [CMY285]				
	Totals for compulsory modules in the first/second quarter		4/4	1/1	18/18
Third yea	r, second semester:				
Code	Name	Q	rt Ipw	ppw	Crdt
CMY382	PHYSICAL_CHEMISTRY_382 Prerequisite/s: [CMY282] and	K	4 4	1	18
	[CMY283] and [CMY284] and [CMY285]	\perp			
CMY384	ORGANIC_CHEMISTRY_384 Prerequisite/s: [CMY282] and [CMY283	3] K	3 4	1	18
	and [CMY284] and [CMY285]				
	Totals for compulsory modules in the third/fourth quarter		4/4	1/1	18/18
	Compulsory credits = (72) Elective credits = (72)				

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Earth Sciences	GGY	02133012

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GLY151	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	K1	4	1	8
GLY152	PHYSICAL_GEOLOGY_152 Prerequisite/s: [Par 1.2]	K2	4	1	8
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		16/16	3/3	30/30
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GGY162	REMOTE_SENSING_162 Prerequisite/s: [Par 1.2]	S2	0	1	4
GGY163	BIOGEOGRAPHY_OF_SA_163 Prerequisite/s: [Par 1.2]	K3	4	0	6
GGY164	PHYSICAL_GEOGRAPHY_OF_SA_164	K4	4	0	6
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4	1	8
GLY162	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	1	8
	Totals for compulsory modules in the third/fourth quarter		16/16	3/3	30/30

Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Computer Science.

	Compulsory credits = (120) Elective credits = (32)						
Second y	rear, first semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
GGY252	PROCESS_GEOMORPHOLOGY_252	K2	4	2	12		
GGY283	INTRODUCTORY_GIS_283	S1	4	2	12		
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS]	S1	3	1	12		
	or [TDH]						
	Totals for compulsory modules in the first/second quarter		7/7	3/3	18/18		

Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Computer Science.

Secon	d year, second semester:	
Code	Name	Qrt lpw ppw Crdt

				_	_
	Totals for compulsory modules in the third/fourth quarter		0/0	0/0	0/0
Geograph	ulsory modules. Electives can be chosen from modules in the following by, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science.				
	Compulsory credits = (36) Elective credits = (108)				
Third yea	ar, first semester:				
Code	Name	Qr	t Ipv	ppw	Crdt
	Totals for compulsory modules in the first/second quarter		0/0	0/0	0/0
	ulsory modules. Electives can be chosen from modules in the following				
Geograph Chemistry	ulsory modules. Electives can be chosen from modules in the following by, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science.				
Geograph Chemistry	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science.		ence		Crdt
Geograph Chemistry Third yea Code	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science.	l Sci	ence	,	Crdt 18
Geograph Chemistry Third yea Code GGY361	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science. ar, second semester: Name	I Sci Qrt	ence	, ppw	
Geograph Chemistry Third yea Code GGY361	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science. ar, second semester: Name ENVIRONM.GEOMORPHOLOGY_361	Qrt K3	lpw 4	ppw 2	18
Geograph Chemistry Third yea Code GGY361 GGY362 Electives Meteorolo	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi y, Botany, Mathematics and Applied Mathematics, Computer Science. ar, second semester: Name ENVIRONM.GEOMORPHOLOGY_361 NATURAL_RESOURCE_MANAGEM.362	Qrt K3 K4	lpw 4 4 4/4	ppw 2 2 2/2	18 18 18/18
Geograph Chemistry Third yea Code GGY361 GGY362 Electives Meteorolo	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi, Botany, Mathematics and Applied Mathematics, Computer Science. ar, second semester: Name ENVIRONM.GEOMORPHOLOGY_361 NATURAL_RESOURCE_MANAGEM.362 Totals for compulsory modules in the third/fourth quarter can be chosen from modules in the following departments: Geography, 1999, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics, Mathematics, Computer Science, Chemistry, Botany, Mathematics, Computer Science, Chemistry, Botany, Mathematics, Computer Science, Chemistry, Botany, Mathematics, Applied Total Science, Chemistry, Botany, Mathematics, Computer Science, Chemistry, Botany, Mathematics, Applied Total Science, Chemistry, Botany, Mathematics, Applied Total Science, Chemistry, Botany, Mathematics, Computer Science, Chemistry, Botany, Mathematics, Applied Total Science, Chemistry, Botany, Mathematics, Computer Science, Chemistry, Computer Science, Chemistry	Qrt K3 K4	lpw 4 4 4/4	ppw 2 2 2/2	18 18 18/18
Geograph Chemistry Third yea Code GGY361 GGY362 Electives Meteorolo Applied M	ny, Geoinformatics and Meteorology, Geology, Plant Production and Soi, Botany, Mathematics and Applied Mathematics, Computer Science. In Arry, second semester: Name ENVIRONM.GEOMORPHOLOGY_361 NATURAL_RESOURCE_MANAGEM.362 Totals for compulsory modules in the third/fourth quarter can be chosen from modules in the following departments: Geography, 1999, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics, Computer Science.	Qrt K3 K4	lpw 4 4 4/4	ppw 2 2 2/2	18 18 18/18

Field of study	Dept	Code
BSc Ecology	ZEN	03133031

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				

	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]		S2	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173		K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]		S2	4	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153		K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] [TDH]	or	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11 and [MLB111]	7]	S2	2	0.5	8
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter			22/1	8 5/4	42/34
	·				•	
	Compulsory credits = (152) Elective credits = (0)				
Second y	year, first semester:					
Code	Name	Qrt	Ιp	w	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	-	2	0.5	12
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	:	2	0.5	12
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or ITDH]	S1	:	2	1	12
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH]	S1	:	2	0.5	12
MBY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	S1	1	2	1	12
ZEN251	INVERTEBRATE BIOLOGY 251	K1	1	4	1	12
	Totals for compulsory modules in the first/second quarter		14	/10	4.5/3.5	42/30
					,	
Second v	/ear, second semester:					
Code	Name	Qrt	lp	w	ppw	Crdt
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	-	2	1	12
GI Y161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3		4	1	8
	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	-	4	1	8
	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 GS] or [TDH]	S2	-	2	0.5	12
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY161]	S2	1	2	1	12
ZEN261	AFRICAN VERTEBRATES 261	K3	Η.	4	1	12
	Totals for compulsory modules in the third/fourth quarter		-		4.5/3.5	38/26
					, 0.0	00/20
	Compulsory credits = (136) Elective credits = (8)				
	Joinpulsory Greats - (190) Elective Greats - (٧,				
Third ve	ar, first semester:					
Code	Name		C	Qrt In	ow ppw	Crdt
	PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16	11 o	_		2 1	18
_ 0 . 002		. 1 0				

	[TDH] and [CMY117] or [TDH] and [CMY127] or [TDH]							
BOT354	PLANT_VARIATION_&EVOLUTION_354 Prerequisite/s: [BOT161] or	S1	2	1	18			
	[TDH] and [MLB111] or [TDH]							
ZEN351	POPULATION_ECOLOGY_351	K1	4	2	18			
ZEN353	COMMUNITY_ECOLOGY_353	K2	2 4	2	18			
	Totals for compulsory modules in the first/second quarter		8/8	4/4	36/36			
Third yea	ar, second semester:							
Code	Name	Qrt	lpw	ppw	Crdt			
BOT363	VEGETATION_SCIENCE_363 Prerequisite/s: [BOT161] or [TDH]	S2	2	1	18			
ZEN361	ECO-PHYSIOLOGY_361	K3	4	2	18			
ZEN362	EVOLUTION_AND_PHYLOGENY_362	K3	4	2	18			
ZEN364	CONSERVATION_ECOLOGY_364	K4	4	2	18			
	Totals for compulsory modules in the third/fourth quarter		10/6	5/3	45/27			
	Compulsory credits = (144) Elective credits = (0)							
	_							
A minim	um of (440) credits is required to obtain the degree.							

Field of study	Dept	Code
BSc Entomology	ZEN	03133041

First year, first semester:								
Code	Name	Qrt	lpw	ppw	Crdt			
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3			
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3			
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16			
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3			
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3			
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16			
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16			
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16			
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38			
First yea	r, second semester:							
Code	Name	Qrt	lpw	ppw	Crdt			
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16			
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%							
	(SG) Grade 12 Mathematics or an equivalent Mathematics							
	achievement.]							
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8			
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3			
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3			
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16			
	CMY101]							
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3			
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3			
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8			
	[TDH]							

	I				T	
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11 and [MLB111]	7]	S2	2	0.5	8
ZEN161	ANIMAL DIVERSITY 161		K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		-	22/18		42/34
	retaile ter comparedly mediated in the timerretain quarter			,	, 0, .	.2,0.
	Compulsory credits = (152) Elective credits = ((0)				
	Company Grant - (102) Electric Grants - (٠,				
Second v	/ear, first semester:					
Code	Name	Qrt	lp'	w	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or	S1	2	2	1	12
	[TDH]					
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1	2	2	0.5	12
	[GTS161 GS] or [TDH]	L	<u> </u>			
MBY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1	2	2	1	12
7511054	[MBY161 GS]	144	<u> </u>	. +	_	40
ZEN251	INVERTEBRATE_BIOLOGY_251	K1	4 4 4	_	1	12
	Totals for compulsory modules in the first/second quarter		14/	10 4	.5/3.5	42/30
	year, second semester:	0	la.			Orrelt
Code	Name	Qrt	lp ^r		ppw 1	Crdt
BO1261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	2	·	1	12
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4	+	1	8
	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	-	1	8
	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161	S2	2	_	0.5	12
010201	GS] or [TDH]	02	_	-	0.5	12
MBY261	GROWTH ACT.& CONTROL/FUNGI 261 Prerequisite/s:	S2	2	2	1	12
	[MBY161]					
ZEN261	AFRICAN_VERTEBRATES_261	КЗ	4	ļ	1	12
	Totals for compulsory modules in the third/fourth quarter	•	14/	10 4	.5/3.5	38/26
	Compulsory credits = (136) Elective credits = ((8)				
Third yea	ar, first semester:					
Code	Name		Qr		ppw	Crdt
ZEN351	POPULATION_ECOLOGY_351		K1		2	18
	COMMUNITY_ECOLOGY_353		K2	_	2	18
	PHYSIOLOGY_354		K2	_	2	18
ZEN355	INSECT_DIVERSITY_355		K2	_	2	18
	Totals for compulsory modules in the first/second quarter			4/12	2 2/6	18/54
	ar, second semester:		_			
Code	Name		_	rt Ip		_
	ECO-PHYSIOLOGY_361		K	_		18
	EVOLUTION_AND_PHYLOGENY_362		_	3 4		18
	CONSERVATION_ECOLOGY_364		_	4 4	+-	18
ZEN365	INSECT_PEST_MANAGEMENT_365		K	4 4	2	18

Totals for compu	lsory modules in the third/fourth quarter	8/8	4/4	36/36
Comp	oulsory credits = (144) Elective credits = (0)			
A minimum of (440) credits is	s required to obtain the degree.			

Field of study	Dept	Code
BSc Environmental and Engineering Geology	GLY	02133042

	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GLY151	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	K1	4	1	8
GLY152	PHYSICAL_GEOLOGY_152 Prerequisite/s: [Par 1.2]	K2	4	1	8
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		16/16	3/3	30/30
First yea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	4	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153	К3	2	0	3
	LANGUAGE PROFICIENCY(4) 154	K4	2	0	3
	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	К3	4	1	8
	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	1	8
	MECHANICS 122		-		
SVVK122	WEGIANICS 122	S2	4	0	16
SWK122	Totals for compulsory modules in the third/fourth quarter	S2	4 16/16	0 2/2	16 30/30
	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32)	S2		_	
	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) Year, first semester:			_	
Second y	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name	Qrt		_	
Second y	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) Year, first semester:		16/16	2/2	30/30
Second y Code GLY251	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117]	Qrt	16/16 Ipw	2/2 ppw	30/30 Crdt
Second y Code GLY251 GLY252	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151]	Qrt K1	16/16 Ipw 4	2/2 ppw 2	30/30 Crdt 12
Second y Code GLY251 GLY252 GLY253	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151] MINERALOGY_252 Prerequisite/s: [GLY251 GS]	Qrt K1	16/16 Ipw 4 4	2/2 ppw 2	30/30 Crdt 12
Second y Code GLY251 GLY252 GLY253 GLY254	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151] MINERALOGY_252 Prerequisite/s: [GLY251 GS] SEDIMENTOLOGY_253	Qrt K1 K2 K2	16/16 Ipw 4 4 4 4	ppw 2 2 2 2	30/30 Crdt 12 12 12
Second y Code GLY251 GLY252 GLY253 GLY254	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151] MINERALOGY_252 Prerequisite/s: [GLY251 GS] SEDIMENTOLOGY_253 STRUCTURAL_GEOLOGY_254	Qrt K1 K2 K2	16/16 Ipw 4 4 4 4	ppw 2 2 2 2 2	30/30 Crdt 12 12 12 12
Second y Code GLY251 GLY252 GLY253 GLY254 SWK210	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) rear, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151] MINERALOGY_252 Prerequisite/s: [GLY251 GS] SEDIMENTOLOGY_253 STRUCTURAL_GEOLOGY_254 STRENGTH_OF_MATERIALS_210	Qrt K1 K2 K2	16/16 Ipw 4 4 4 4 3	ppw 2 2 2 2 2 2 2	30/30 Crdt 12 12 12 12 16
Second y Code GLY251 GLY252 GLY253 GLY254 SWK210	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (120) Elective credits = (32) Year, first semester: Name CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS] and [GLY151] MINERALOGY_252 Prerequisite/s: [GLY251 GS] SEDIMENTOLOGY_253 STRUCTURAL_GEOLOGY_254 STRENGTH_OF_MATERIALS_210 Totals for compulsory modules in the first/second quarter	Qrt K1 K2 K2	16/16 lpw 4 4 4 3 11/11	ppw 2 2 2 2 2 2 2	30/30 Crdt 12 12 12 12 16

	CMY101 and CMY102] and [CMY127 or CMY101 and CMY102]							
GLY261	IGNEOUS_PETROLOGY_261	K	3	4	2	12		
GLY262	METAMORPHIC_PETROLOGY_262 Prerequisite/s: [GLY252]	Κ	4	4	2	12		
GLY263	SA_STRATIGRAPHY_&_ENG.GEOL.263 Prerequisite/s: [TDH]	K	3	4	2	12		
GLY264	INTRODUCTION_TO_GEOPHYSICS_264 Prerequisite/s: [TDH]	Κ	1	4	2	12		
	Totals for compulsory modules in the third/fourth quarter							
	Compulsory credits = (124) Elective credits = (20)							
	ar, first semester:		_		_	_		
Code	Name	_	_	lpw	ppw	Crdt		
-	GROUNDWATER_351	_	(1	4	2	18		
-	ORE_FORMATION_352 Prerequisite/s: [GLY261]	_	(2	4	2	18		
GTX351	ENGINEERING_GEOLOGY_351 Prerequisite/s: [GLY262] and	۲	(1	4	2	18		
	[GLY264] or [TDH]							
	Totals for compulsory modules in the first/second quarter			8/4	4/2	36/18		
	ar, second semester:							
Code	Name	Qrt	Iр	W	ppw	Crdt		
GLY361	ORE_DEPOSITS_361	K3	4	4	2	18		
GLY362	GEOSTAT.&_ORE_RESERVCALC.362	K4	4	4	2	18		
GTX361	SOIL_MECHANICS_361	S2	4	4	2	13		
PSZ320	ROCK_MECHANICS_320 Prerequisite/s: [SWK210] or [SWK220]	S2	•	3	1	17		
	Totals for compulsory modules in the third/fourth quarter		11,	/11	5/5	33/33		
	for the first to third year can be chosen the following departments:	,		,				
	matics and Meteorology, Geology, Plant Production and Soil Science							
	tics and Applied Mathematics, Physics, Computer Science, Mining Er	ngine	erir	ng a	nd Ci	vil and		
Biosyster	ns Engineering.							
	0 I II (400) EL (1 III (500)							
	Compulsory credits = (120) Elective credits = (24)							
A	um of (440) avadita is varyingd to obtain the day							
A MINIM	um of (440) credits is required to obtain the degree.							

Field of study	Dept	Code
BSc Environmental Sciences	GGY	02133361

First year, first semester:						
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16	
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16	
Totals for compulsory modules in the first/second quarter			16/16	3/3	30/30	
WTW 134 can be taken instead of WTW 114.						

First year, second semester:							
Code	Name	Qrt	lpw	ppw	Crdt		
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3		
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16		
	CMY101]						
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3		
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3		
GGY162	REMOTE_SENSING_162 Prerequisite/s: [Par 1.2]	S2	0	1	4		
GGY163	BIOGEOGRAPHY_OF_SA_163 Prerequisite/s: [Par 1.2]	K3	4	0	6		
GGY164	PHYSICAL_GEOGRAPHY_OF_SA_164	K4	4	0	6		
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8		
	Totals for compulsory modules in the third/fourth quarter		18/14	3.5/2.5	34/26		

Electives can be chosen from the following the departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Zoology and Entomology, Archeology and Computer Science.

Compulsory credits = (120) Elective credits = (32)

Second year, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH]	S1	2	1	12
GGY252	PROCESS_GEOMORPHOLOGY_252	K2	4	2	12
GGY283	INTRODUCTORY_GIS_283	S1	4	2	12
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117	S1	3	1	12
	GS] or [TDH]				
ZEN251	INVERTEBRATE_BIOLOGY_251	K1	4	1	12
Totals for compulsory modules in the first/second quarter			13/9	5/4	36/24

Second year, second semester:

Code	Name	Qrt	lpw	ppw	Crdt
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and	S2	2	1	12
	[CMY117] and [CMY127] or [TDH]				
ZEN261	AFRICAN_VERTEBRATES_261	K3	4	1	12
	Totals for compulsory modules in the third/fourth quarter			2/1	18/6

No compulsory modules in the fourth quarter. Electives can be chosen from the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Zoology and Entomology, Archeology and Computer Science.

Compulsory credits = (84) Elective credits = (60)

Third	year,	first	semester:

Code	Name	Qrt	lpw	ppw	Crdt
	Totals for compulsory modules in the first/second quarter		0/0	0/0	0/0

No compulsory modules.

Third yea	ar, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
GGY361	ENVIRONM.GEOMORPHOLOGY_361	K3	4	2	18
GGY362	NATURAL_RESOURCE_MANAGEM.362	K4	4	2	18
	Totals for compulsory modules in the third/fourth quarter		4/4	2/2	18/18
Meteorolo	can be chosen from modules in the departments: Geography, Geoinfor ogy, Geology, Plant Production and Soil Science, Chemistry, Botany, Ma Mathematics, Zoology and Entomology, Archeology and Computer Scien	athei			d
	Compulsory credits - (36) Flective credits - (108)				

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Exploration Geophysics	GLY	02133192

Filot year,	first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GLY151	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	K1	4	1	8
GLY152	PHYSICAL_GEOLOGY_152 Prerequisite/s: [Par 1.2]	K2	4	1	8
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	16
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		16/16	3/3	30/30
First year,	second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4	1	8
GLY162	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	1	8
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	16
	NUMERICAL_ANALYSIS_123 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8
	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8
	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		18/18	5/5	34/3

Applied Mathematics, Physics and Computer Science.

Compulsory credits = (128) Elective credits = (24)

8/8 4/4 36/36

N. N.					
Code Name	Qr	t I	pw	ppw	Crdt
GLY253 SEDIMENTOLOGY_253	K2	:	4	2	12
GLY254 STRUCTURAL_GEOLOGY_254	K1	T	4	2	12
PHY251 GENERAL_PHYSICS_251 Prerequisite/s: [PHY171 or	K1	T	4	2	12
PHY101,102] and [WTW211 #] and [WTW218 #]					
PHY252 MODERN_PHYSICS_252 Prerequisite/s: [PHY171 or PHY101,10	2] K2	2	4	2	12
and [PHY251 #] and [WTW211 #] and [WTW218 #]					
WTW211 LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102]	S1		2	1	12
WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and	S1		2	1	12
[WTW128 or WTW102]					
WTW283 NUMERICAL_ANALYSIS_283	S1		2	1	12
Totals for compulsory modules in the first/second quarter		14	4/14	7/7	42/42
Second year, second semester:					
Code Name	(Qrt	lpw	ppw	Crdt
GLY263 SA_STRATIGRAPHY_&_ENG.GEOL.263 Prerequisite/s: [TDH]		K3	4	2	12
GLY264 INTRODUCTION_TO_GEOPHYSICS_264 Prerequisite/s: [TDH]		K4	4	2	12
PHY361 ELECTROMAGNET_&_ELECTRONIC_361 Prerequisite/s: [PHY25]	К3	4	2	18
and [PHY252]	1				
Totals for compulsory modules in the third/fourth quarter			8/4	4/2	30/12
Electives can be chosen from modules in the following departments: Geogra	phy,	Geo	oinfo	rmatio	s and
Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botan	y, Ma	the	matio	s and	i
Applied Mathematics, Physics and Computer Science.					
Compulsory credits = (126) Elective credits = (18	3)				
Compulsory credits = (126) Elective credits = (18	3)				
Compulsory credits = (126) Elective credits = (18 Third year, first semester:	3)				
		Qrt	lpw	ppw	Crdt
Third year, first semester:		Qrt K1	lpw 4	ppw 2	Crdt 18
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH]			_		
Third year, first semester: Code Name GLY351 GROUNDWATER_351		K1	4	2	18
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH]		K1	4	2	18 18
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH] Totals for compulsory modules in the first/second quarter		K1	4 4/4	2	18 18
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH] Totals for compulsory modules in the first/second quarter Third year, second semester:		K1 K2	4 4/4	2 2/2	18 18 18/18
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH] Totals for compulsory modules in the first/second quarter Third year, second semester: Code Name		K1 K2 Qrt	4 4 4/4 Ipw	2 2 2/2 ppw	18 18 18/18 Crdt
Third year, first semester: Code Name GLY351 GROUNDWATER_351 GPH352 APPLIED_NUMERICAL_METHODS_352 Prerequisite/s: [TDH] Totals for compulsory modules in the first/second quarter Third year, second semester: Code Name GLY361 ORE_DEPOSITS_361		K1 K2 Qrt	4 4 4/4 lpw 4	2 2 2/2 ppw 2	18 18 18/18 Crdt 18

Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Physics and Computer Science.

Compulsory credits = (108) Elective credits = (36)

Totals for compulsory modules in the third/fourth quarter

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Financial Mathematics	WTW	02133382

Code	First year	, first semester:					
EKN113 ECONOMICS_113 S1 S1 S1 S1 S1 S1 S1			Qrt	lр	w pr	w	Crdt
EOT151	CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	2 ()	3
EOT152	EKN113	ECONOMICS_113	S1	3	3 ()	15
FBS110 FINANCIAL_MANAGEMENT_110 Prerequisite/s: [Par 1.2] S1 3 0 10 WST110 MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2] S1 4 1 16 Totals for compulsory modules in the first/second quarter 18/16 2/2 34.5/31.5 First year, second semester:	EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	2 ()	3
WST110 MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2] S1 4 1 16 MTW114 CALCULUS_114 Prerequisite/s: [Par 1.2] S1 4 1 16 Totals for compulsory modules in the first/second quarter S1 4 1 16 Z2 34.5/31.5 S1 4 1 16 Z2 34.5/31.5 S1 S1 S1 Z2 Z3 S1.5/31.5 S1 S1 S1 Z2 Z3 S1.5/31.5 S1 S1 Z3 S1.5/31.5 S1 S1 S1 S1 S1 S1 S1 S	EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	2 ()	3
WTW114	FBS110	FINANCIAL_MANAGEMENT_110 Prerequisite/s: [Par 1.2]	S1	3	3 ()	10
Totals for compulsory modules in the first/second quarter 18/16 2/2 34.5/31.5	WST110	MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2]	S1	4	1 1	1	16
First year, second semester: Code	WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1 1	1	16
Code		Totals for compulsory modules in the first/second quarter		18/	16 2	/2 3	34.5/31.5
CIL174 COMPUTER_&INFORM.LITERACY_174	First year	, second semester:					
COS160 COMPUTER_SCIENCE_160 Prerequisite/s: [Par 1.2; students who passed Computer Studies HG on grade 12 level will be exempted] S2 3 0 15			Qrt	lp'	w pr	w	Crdt
Who passed Computer Studies HG on grade 12 level will be exempted	CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	2 ()	3
EKN123 ECONOMICS_123 Prerequisite/s: [EKN113 GS] S2 3 0 15	COS160	COMPUTER_SCIENCE_160 Prerequisite/s: [Par 1.2; students	S2	4	1 1	1	16
EKN123 ECONOMICS_123 Prerequisite/s: [EKN113 GS] S2 3 0 15		who passed Computer Studies HG on grade 12 level will be					
EOT153		exempted]					
EOT154	EKN123	ECONOMICS_123 Prerequisite/s: [EKN113 GS]	S2	9	3 ()	15
FINANCIAL_MANAGEMENT_120 Prerequisite/s: [Par 1.2] S2 3 0 10	EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	2 ()	3
WST120	EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	2 ()	3
WTW123 NUMERICAL_ANALYSIS_123 Prerequisite/s: [WTW114 GS or WTW101 GS] WTW101 GS] WTW101 GS] WTW126 LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2] S2 2 1 8 WTW128 CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS] S2 2 1 8 WTW128 CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS] S2 2 1 8 WTW128 Totals for compulsory modules in the third/fourth quarter 22/24 5/5 43.5/46.5 Students who passed Computer studies HG at grade 12-level, may be exempted from COS160. Compulsory credits = (156) Elective credits = (0) Second year, first semester: Code	FBS120	FINANCIAL_MANAGEMENT_120 Prerequisite/s: [Par 1.2]	S2	3	3 ()	10
WTW123 NUMERICAL_ANALYSIS_123 Prerequisite/s: [WTW114 GS or WTW101 GS] WTW101 GS] WTW101 GS] S2 2 1 8 WTW126 LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2] S2 2 1 8 WTW128 CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS] S2 2 1 8 Totals for compulsory modules in the third/fourth quarter 22/24 5/5 43.5/46.5 Students who passed Computer studies HG at grade 12-level, may be exempted from COS160. Compulsory credits = (156) Elective credits = (0) Second year, first semester: Code Name Qrt Ipw ppw Crdt IAS211 ACTUARIAL_MATHEMATICS_211 Prerequisite/s: [WTW114] and S1 2 1 12 INF214 INFORMATICS_214 Prerequisite/s: [CIL171] and [CIL172] and [CIL173] and [CIL174] INFORMATICAL_STATISTICS_210 Prerequisite/s: [WST110] and [WST120] and [WTW114 GS or WTW102 GS] and [WTW126 GS or WTW102 GS] and [WTW128 GS or WTW102 GS] and [WTW128 GS or WTW102 GS] WTW102 S1 2 1 12 WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and S1 2 1 12 WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and S1 2 1 12 WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and S1 3 6/6 37/37 Second year, second semester: Code Name Qrt Ipw ppw Crdt Ipw Ipw	WST120	MATHEMATICAL_STATISTICS_120 Prerequisite/s: [WST110	S2	4	1 1	1	16
WTW101 GS]		GS]					
WTW126 LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2] S2 2	WTW123	NUMERICAL_ANALYSIS_123 Prerequisite/s: [WTW114 GS or	S2	2	2 1	1	8
### WTW128 CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]		WTW101 GS]					
Totals for compulsory modules in the third/fourth quarter	WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	2 1	1	8
Students who passed Computer studies HG at grade 12-level, may be exempted from COS160. Compulsory credits = (156) Elective credits = (0)	WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	2 1	1	8
Compulsory credits = (156) Elective credits = (0)		Totals for compulsory modules in the third/fourth quarter		22/	24 5	/5 4	3.5/46.5
Compulsory credits = (156) Elective credits = (0)							
Second year, first semester: Code	Students v	vho passed Computer studies HG at grade 12-level, may be exe	mpte	d fr	om C	OS1	60.
Second year, first semester: Code		<u> </u>					
Code		Compulsory credits = (156) Elective credits = ((0)				
Code							
ACTUARIAL_MATHEMATICS_211 Prerequisite/s: [WTW114] and [VTW128]	Second y	ear, first semester:					
[WTW128]	Code	Name		Qrt	lpw	ppv	w Crdt
INF214 INFORMATICS_214 Prerequisite/s: [CIL171] and [CIL172] and S1 3 1 14 [CIL173] and [CIL174]	IAS211	ACTUARIAL_MATHEMATICS_211 Prerequisite/s: [WTW114] and	t	S1	2	1	12
CIL173] and [CIL174]		[WTW128]					
WST210	INF214	INFORMATICS_214 Prerequisite/s: [CIL171] and [CIL172] and		S1	3	1	14
[WST120] and [WTW114 GS or WTW101 GS] and [WTW126 GS or WTW102 GS] and [WTW128 GS or WTW102 GS] WTW211 LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102] S1 2 1 12 WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102] S1 2 1 12 WTW128 or WTW102]		[CIL173] and [CIL174]					
WTW102 GS] and [WTW128 GS or WTW102 GS]	WST210	MATHEMATICAL_STATISTICS_210 Prerequisite/s: [WST110] and	d	S1	4	2	24
WTW211 LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102] S1 2 1 12 WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102] S1 2 1 12 Totals for compulsory modules in the first/second quarter 13/13 6/6 37/37 Second year, second semester: Code Name Qrt Ipw ppw Crdt		[WST120] and [WTW114 GS or WTW101 GS] and [WTW126 GS	or				
WTW218 CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102] S1 2 1 12 Totals for compulsory modules in the first/second quarter 13/13 6/6 37/37 Second year, second semester: Code Name Qrt lpw ppw Crdt		WTW102 GS] and [WTW128 GS or WTW102 GS]					
[WTW128 or WTW102]				S1	2	1	12
Totals for compulsory modules in the first/second quarter 13/13 6/6 37/37 Second year, second semester: Code Name Qrt pw ppw Crdt	WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and	Т	S1	2	1	12
Second year, second semester: Code Name Qrt lpw ppw Crdt							
Code Name Qrt lpw ppw Crdt		Totals for compulsory modules in the first/second quarter			13/13	6/6	37/37
	Second y	ear, second semester:				_	
IAS221 ACTUARIAL_MATHEMATICS_221 Prerequisite/s: [IAS211 GS]			_	_	lpw	ppv	_
	IAS221	ACTUARIAL_MATHEMATICS_221 Prerequisite/s: [IAS211 GS]		S2	2	1	12

WST220	MATHEMATICAL_STATISTICS_220 Prerequisite/s: [WST210 GS]	S2	4	2	24
WTW220	ANALYSIS_220 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102]	S2	2	1	12
WTW221	LINEAR_ALGEBRA_221 Prerequisite/s: [WTW211]	S2	2	1	12
WTW286	DIFFERENTIAL_EQUATIONS_286 Prerequisite/s: [WTW114 or	S2	2	1	12
	WTW101] and [WTW126 or WTW102] and [WTW128 or WTW102]				
	Totals for compulsory modules in the third/fourth quarter		12/12	6/6	36/36
Electives:	IAS261, IAS262 (if presented).				
	Compulsory credits = (146) Elective credits = (0)				
	1.7				
Third yea	r, first semester:				
Code	Name	Q	rt Ipw	ppw	Crdt
WST310	MATHEMATICAL_STATISTICS_310 Prerequisite/s: [WST210] and	S	1 4	2	36
11.7711.0.10	[WST220] and [WTW211 GS] and [WTW218 GS]			<u> </u>	
	ANALYSIS_310 Prerequisite/s: [WTW220]	S		1	18
WTW354	FINANCIAL_ENGINEERING_354 Prerequisite/s: [WST210] and [WTW211] and [WTW218]	S	1 2	1	18
	Totals for compulsory modules in the first/second quarter		8/8	4/4	36/36
Third yea	r, second semester:				
Code	Name	Q	rt Ipw	ppw	Crdt
WST361	MATHEMATICAL_STATISTICS_361 Prerequisite/s: [WST210] and [WST220] and [WTW211 GS] and [WTW218 GS]	S	2 2	1	18
WTW364	FINANCIAL_ENGINEERING_364 Prerequisite/s: [WST210] and	S	2 2	1	18
	[WTW211] and [WTW218] and [WTW220] and [WTW286]				
	Totals for compulsory modules in the third/fourth quarter		4/4	2/2	18/18
Flectives:	AKM702, AKT780, IAS351, IAS352, IAS361, IAS362, WST362, WTV	N332	(if nre	sente	4)
	f presented), WTW383, WTW386.	1002	(ii pie.	Joine	4),
	Compulsory credits = (108) Elective credits = (54)				
Λ minimu	m of (464) credits is required to obtain the degree.				
u	in or (404) credits is required to obtain the degree.				

Field of study	Dept	Code
BSc Food Management	VBR	02133384

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				

	Name	Qrt	Ιp	w	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS]	S2	-	4	1	16
2.23	and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or	_	1			
ı	50% (SG) Grade 12 Mathematics or an equivalent Mathematics		1			
1	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	:	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173	К3	:	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	- 2	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	4	1	16
	CMY101]					
EOT153	LANGUAGE_PROFICIENCY(3)_153	К3	1	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	:	2	0	3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2		2	0.5	8
	[CMY117] and [MLB111]					
SEM180	SEMINAR_180	S2	1	2	0	6
ZEN161	ANIMAL_DIVERSITY_161	К3	_	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22	/18 4	1.5/3.5	41/33
	Compulsory credits = (150) Elective credits = (0)				
Second y	rear, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117		S1	2	0.5	12
i	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117		S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
FSG110	PHYSIOLOGY_110		S1	3	0	6
	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16	_	S1 S1	3	0	6
MBY251	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS]	31	S1	2	1	12
MBY251 OBS110	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110	61	S1 S1	3	0	
MBY251 OBS110 OPI250	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250	61	S1 S1 J1	2	1	12
MBY251 OBS110 OPI250 OPI260	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110	61	S1 S1	3	0 0	12 10 3
MBY251 OBS110 OPI250 OPI260 VDS110	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260	61	S1 S1 J1	2 3 1	0 0 0	12 10 3 3
MBY251 OBS110 OPI250 OPI260 VDS110	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210	61	S1 J1 J1 S1	2 3 1 1 3	1 0 0 0 0	12 10 3 3 8
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter	61	S1 J1 J1 S1	3 1 1 3 3	1 0 0 0 0	12 10 3 3 8 16
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter	61	S1 J1 J1 S1	3 1 1 3 3 20/20	0 0 0 0 0 1	12 10 3 3 8 16 41/41
OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name	61	S1 J1 J1 S1	3 1 1 3 3	0 0 0 0 0 1	12 10 3 3 8 16 41/41
OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name	61	S1 J1 J1 S1 S1	3 1 1 3 3 20/20	0 0 0 0 1 0 3/3	12 10 3 3 8 16 41/41
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	61	S1 J1 J1 S1 S1	3 1 1 3 3 20/20	0 0 0 0 1 0 3/3	12 10 3 3 8 16 41/41
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	61	S1 J1 J1 S1 S1 Qrt S2	3 1 1 3 3 20/20	0 0 0 0 1 0 3/3 ppw 0.5	12 10 3 3 8 16 41/41 Crdt
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	51	S1 J1 J1 S1 S1 Qrt S2	3 1 1 3 3 20/20	0 0 0 0 1 0 3/3 ppw 0.5	12 10 3 3 8 16 41/41 Crdt
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262 FSG120	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	51	S1 S1 J1 S1 S1 Qrt S2 S2	2 3 1 1 3 3 20/20 lpw 2	0 0 0 0 1 0 3/3 ppw 0.5	12 10 3 8 16 41/41 Crdt 12
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262 FSG120 KEP220	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS]	61	S1 S1 J1 J1 S1 S1 Qrt S2 S2	2 3 1 1 3 3 20/20 lpw 2 2	0 0 0 0 1 0 3/3 ppw 0.5 0.5	12 10 3 8 16 41/41 Crdt 12 12
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262 FSG120 KEP220 OBS120	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS] CULTURAL_EATING_PATTERNS_220	61	S1 S1 J1 J1 S1 S1 Qrt S2 S2 S2 S2	2 3 1 1 3 3 20/20 1pw 2 2 2 3 3	0 0 0 0 1 0 3/3 ppw 0.5 0.5	12 10 3 8 16 41/41 Crdt 12 12 6
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262 FSG120 KEP220 OBS120 OPI250	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS] CULTURAL_EATING_PATTERNS_220 BUSINESS_MANAGEMENT_120 EXPERTRAINING_IN_INDUST250	61	S1 J1 J1 S1 S1 S2 S2 S2 S2 S2 J1	3 1 1 3 3 20/20 1 1 1 1 2 2 2 3 3 3 3 3 2 3 3 3 3 3 3 3	0 0 0 0 1 0 3/3 ppw 0.5 0.5	12 10 3 8 16 41/41 Crdt 12 12 6 8
MBY251 OBS110 OPI250 OPI260 VDS110 VDS210 Second y Code BCM261 BCM262 FSG120 KEP220 OBS120 OPI250	PHYSIOLOGY_110 GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] BUSINESS_MANAGEMENT_110 EXPERTRAINING_IN_INDUST250 EXPERTRAINING_IN_INDUST260 FOODS_110 FOODS_210 Totals for compulsory modules in the first/second quarter rear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS] CULTURAL_EATING_PATTERNS_220 BUSINESS_MANAGEMENT_120	61	S1 S1 J1 S1 S1 S1 S2 S2 S2 S2 S2	3 1 1 3 3 20/20 1 1 1 2 2 2 3 3 3 3 1 1 2 3 1 2 1 2 1 2	0 0 0 0 1 0 3/3 ppw 0.5 0.5	12 10 3 8 16 41/41 Crdt 12 12 6 8 10 3

Compulsory credits = (152) Elective credits = (0)										
	ar, first semester:			,						
Code	Name		Qrt	lpv		pw	Crdt			
FST351	FOOD_CHEMISTRY-(1)_351 Prerequisite/s: [BCM251] and		S1	2		1	18			
======	[BCM252] and [BCM261] and [BCM262] or [TDH]		S1		4					
	OOD_CHEMISTRY-(2)_352 Prerequisite/s: [FST351]			2	_	1	18			
	BUSINESS_MANAGEMENT_210		S1 S1	3	_	0	16			
VDG310	G310 NUTRITION_310 Prerequisite/s: [FSG110 or VDG220] and [FSG120			3		1	14			
	or VDG163]			40/	10 0		00/00			
	Totals for compulsory modules in the first/second quarter			10/1	10 3	3/3	33/33			
	ar, second semester:	_			_	_				
Code	Name		Qrt S2	lpv 2		pw	Crdt			
FS 1260	PRIN/FOOD_PROC&_PRESERV260 Prerequisite/s: [CMY117]					1	12			
	and [CMY127] and [MBY161] and [PHY131] and [WTW134] or [TDH]									
VDB320	FOOD_SERVICE_MANAGEMENT_320 Prerequisite/s: [VDS320 #	<i>‡</i> 1	S2	4	+	1	20			
	NUTRITION_320 Prerequisite/s: [VDG310]	f]	S2	3	_	1	14			
	FOODS 320 Prerequisite/s: [VDG310]	01	S2	5	_	2	30			
VD3320	and [VDS221]	.0]	32	5		_	30			
	Totals for compulsory modules in the third/fourth quarter			14/1	14 5	5/5	38/38			
	Totals for compulsory modules in the tilita/fourth quarter			14/	14 0	7,5	30/30			
	Compulsory credits = (142) Elective credits = ((O)								
	Compulsory Credits = (142) Elective Credits = (U)								
Fourth v	ear, first semester:									
Code	Name	Qr	t l	ow	ppw		Crdt			
BEM110	MARKETING_MANAGEMENT_110	S1	_	3	0		10			
	SENSORY ANAL.&QUAL.MAN.SYS.411 Prerequisite/s:	S1		2	1		20			
	[FST260] and [FST351] and [FST352] or [TDH]									
OBS310	BUSINESS_MANAGEMENT_310	S1		4	0		20			
OPI450	EXPERTRAINING_IN_INDUST450	J1		1	0		5			
VDB410	FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320]	S1		3	1		16			
	PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s:	S1	_	2	0	Ì	6			
	[VDB410 #]					L				
VDS413	FOODS_413 Prerequisite/s: [VDS310]	S1		3	1		24			
	Totals for compulsory modules in the first/second quarter		18	3/18	3/3	50	.5/50.5			
Fourth y	ear, second semester:					_				
Code	Name	Qr	t I	ow	ppw		Crdt			
BEM161	MARKETING_MANAGEMENT_161	K3	П	3	0	Ī	5			
BEM162	MARKETING_MANAGEMENT_162	K4		3	0	Ī	5			
MBY362	FOOD_MICROBIOLOGY_362 Prerequisite/s: [MBY251]	S2		2	1		18			
OPI450	EXPERTRAINING_IN_INDUST450	J1		1	0	Ī	5			
	PROJECT_FOODS_422 Prerequisite/s: [VDS310]	S2		1	2		20			
	FOODS_423	S2	: [3	0	Ī	8			
	Totals for compulsory modules in the third/fourth quarter	-	10)/10	3/3	30	.5/30.5			
Compulsory credits = (162) Elective credits = (0)										
- (0)										

A minimum of (606) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Food Science	VDW	03134011

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First year	r, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
	PHYSIOLOGY_110		S1	3	0	6
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1 4		1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1 4		1	16
	Totals for compulsory modules in the first/second quarter			23/2	3 4/4	41/41
First year	r, second semester:					
Code	Name	Qrt	lр	w	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS]	S2	4	1	1	16
	and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or					
	50% (SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]					
_	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3
	COMPUTER_&_INFORM.LITERACY_174	K4	2	_	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	4	1	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	K4	2	2	0	3
	PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS]	S2	3	3	0	6
	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	S2	2	2	0.5	8
	or [TDH]					
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2	2	0.5	8
	[CMY117] and [MLB111]					
	Totals for compulsory modules in the third/fourth quarter		19/	19 3	3.5/3.5	33/33
	Compulsory credits = (148) Elective credits = (0)				
	ear, first semester:					
Code	Name	Qrt	lp	_	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	2	0.5	12
DOMOSS	GS] and [CMY127 GS] and [MLB111 GS]	~	H,	+	0.5	40
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	<u> </u>	0.5	12
ECTOFO	GS] and [CMY127 GS] and [MLB111 GS]	04	2	, +	1	10
FST250	INTRO/FOOD_SCIENCE_&_TECH250 Prerequisite/s: [CMY117] and [CMY127] and [MBY161] and [PHY131] and	S1	_	·	1	12
	[CMT117] and [CMT127] and [MBT161] and [PHT131] and [WTW134] or [TDH]					
MBY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1	2	,	1	12
		'			•	

MDV404 001			т -		
[MBY161 GS]	-	_	+		40
	S1	3).5	12
Totals for compulsory modules in the first/second quarter	1	1/11	3.5	3.5	30/30
Second year, second semester:					
Code Name		Qrt	_	ppw	Crdt
BCM261 LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 G	S]	S2	2	0.5	12
and [CMY127 GS] and [MLB111 GS]			_		
BCM262 BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 G	S]	S2	2	0.5	12
and [CMY127 GS] and [MLB111 GS]					
FST260 PRIN/FOOD_PROC&_PRESERV260 Prerequisite/s: [CMY117]	•	S2	2	1	12
and [CMY127] and [MBY161] and [PHY131] and [WTW134] or [TD	_				
MBY261 GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY16	1]	S2	2	1	12
Totals for compulsory modules in the third/fourth quarter			8/8	3/3	24/24
Compulsory credits = (108) Elective credits = (40))				
Third year, first semester:					
Code Name	Qr	t lpv	v p	pw	Crdt
FST350 INTEGRATED_FOOD_SCIENCE_350 Prerequisite/s: [FST250] and	S1	1		0	18
[FST260] or [TDH]					
FST351 FOOD_CHEMISTRY-(1)_351 Prerequisite/s: [BCM251] and	S1	2		1	18
[BCM252] and [BCM261] and [BCM262] or [TDH]			_		
FST352 FOOD_CHEMISTRY-(2)_352 Prerequisite/s: [FST351]	S1	2		1	18
FST353 FOOD_ENGINEERING_353 Prerequisite/s: [CMY117] and	S1	3	(0.5	18
[CMY127] and [FST260] and [PHY131] and [WTW134] or [TDH]					
Totals for compulsory modules in the first/second quarter		8/	8 2.5/2.5		36/36
Third year, second semester:					
Code Name		Qrt	lpw	ppw	Crdt
FST360 PLANT_FOOD_SCIENCE_360 Prerequisite/s: [FST250] and [FST2	60]	S2	2	1	18
and [FST351] and [FST352] or [TDH]					
FST361 ANIMAL_FOOD_SCIENCE_361 Prerequisite/s: [FST250] and [FST	260]	S2	2	1	18
and [FST351] and [FST352] or [TDH]					
MBY362 FOOD_MICROBIOLOGY_362 Prerequisite/s: [MBY251]		S2	2	1	18
Totals for compulsory modules in the third/fourth quarter			6/6	3/3	27/27
Compulsory credits = (126) Elective credits = (18	3)				
A minimum of (440) credits is required to obtain the degree.					

Field of study	Dept	Code
BSc Genetics	GTS	03133051

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3

	LANGUAGE BROFIGIENOV(O) 450		1/0	_	_ ^	^
	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16
	Totals for compulsory modules in the first/second quarter			20/20	3 4/4	38/38
	r, second semester:					_
Code	Name		Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] a		S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%	•				
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]	4	_		-	_
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	_	S2	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173	-+	K3	2	0	3
	COMPUTER_&_INFORM.LITERACY_174	_	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or		S2	4	1	16
	CMY101]				_	
	LANGUAGE_PROFICIENCY(3)_153	_	K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	_	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] [TDH]	or	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11	7]	S2	2	0.5	8
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter			22/18	5/4	42/34
					•	•
	Compulsory credits = (152) Elective credits = (0)				
	· · · · · · · · · · · · · · · · · · ·					
Second y	year, first semester:					
Second y Code	year, first semester: Name	Qrt	lp	w	ppw	Crdt
Code	Name	Qrt S1	+-	w 2	ppw 0.5	Crdt
Code			+-	_		
Code BCM251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117		2	_		
Code BCM251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	2	0.5	12
Code BCM251 BCM252	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	2	0.5	12
Code BCM251 BCM252	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	2	0.5	12
Code BCM251 BCM252 BOT251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or	S1	2	2	0.5	12
Code BCM251 BCM252 BOT251 GTS251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH]	S1 S1	2	2 2 2	0.5	12 12 12
Code BCM251 BCM252 BOT251 GTS251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1 S1	2	2 2 2	0.5	12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	S1 S1 S1	2	2 2 2 2	0.5 0.5 1 0.5	12 12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1 S1 S1	2	2 2 2 2	0.5 0.5 1 0.5	12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	S1 S1 S1 S1		2 2 2 2 4	0.5 0.5 1 0.5	12 12 12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251	S1 S1 S1 S1		2 2 2 2 4	0.5 0.5 1 0.5	12 12 12 12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251	S1 S1 S1 S1		2 2 2 2 4	0.5 0.5 1 0.5	12 12 12 12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter	S1 S1 S1 S1	2 2 2 2 4 14.	2 2 2 2 2 2 4 /10 4	0.5 0.5 1 0.5	12 12 12 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251 Second Code	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter //ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117]	S1 S1 S1 S1 S1 K1	2 2 2 14,	2 2 2 2 2 2 4 /10 4	0.5 0.5 1 0.5 1 1 .5/3.5	12 12 12 12 12 12 12 42/30
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251 Second y Code BCM261	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter /ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1 S1 S1 S1 K1 Cqrt S2	2 2 2 2 1 1 4 A 1 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A	22 2 2 2 2 2 4 4 4 4 1 1 1 1 1 1 1 1 1 1	0.5 0.5 1 0.5 1 1.5/3.5 ppw 0.5	12 12 12 12 12 12 12 42/30 Crdt 12
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251 Second y Code BCM261	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter /ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	S1 S1 S1 K1 Qrt	2 2 2 2 1 1 4 A 1 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A	2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.5 0.5 1 0.5 1 1 .5/3.5	12 12 12 12 12 12 12 12 42/30 Crdt
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251 Second y Code BCM261 BCM262	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter /ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	\$1 \$1 \$1 \$1 \$1 \$1 K1 Qrt \$2 \$2	14.	2 2 2 2 2 2 2 2 2 2 4 4 7 10 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.5 0.5 1 0.5 1 1 .5/3.5 ppw 0.5 0.5	12 12 12 12 12 12 12 42/30 Crdt 12 12
Code BCM251 BCM252 BOT251 GTS251 MBY251 ZEN251 Second y Code BCM261 BCM262	Name INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or [TDH] GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INVERTEBRATE_BIOLOGY_251 Totals for compulsory modules in the first/second quarter /ear, second semester: Name LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS] BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	S1 S1 S1 S1 K1 Cqrt S2	14.	22 2 2 2 2 2 4 4 4 4 1 1 1 1 1 1 1 1 1 1	0.5 0.5 1 0.5 1 1.5/3.5 ppw 0.5	12 12 12 12 12 12 12 42/30 Crdt 12

GS] or [TDH] MBY261 GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: S2 2 1 [MBY161] ZEN261 AFRICAN_VERTEBRATES_261 K3 4 1	12
MBY261 GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: S2 2 1 [MBY161] ZEN261 K3 4 1	
[MBY161] ZEN261 AFRICAN_VERTEBRATES_261 K3 4 1	
	40
Totals for compulsory modules in the third/fourth quarter 14/10 4 5/3 5 4/	12
	2/30
Compulsory credits = (144) Elective credits = (0)	
Third year, first semester:	
	Crdt
GTS351 EUKARYOTIC_GENE_CON.&_DEVL.351 Prerequisite/s: [GTS251 GS] S1 2 1 and [GTS261 GS] or [TDH]	18
GTS352 GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or S1 2 1 [TDH]	18
GTS353 ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 GS] and S1 2 1 [GTS261 GS] or [TDH]	18
Totals for compulsory modules in the first/second quarter 6/6 3/3 2	7/27
Third year, second semester:	
Code Name Qrt lpw ppw 0	Crdt
GTS361 HUMAN_GENETICS_361 Prerequisite/s: [GTS251 GS] and [GTS261 S2 2 1 GS] or [TDH]	18
GTS362 INTRODUCTION_TO_PLANTBREED.362 Prerequisite/s: [GTS251 GS] S2 2 1 and [GTS261 GS] or [TDH]	18
GTS363 EVOLUTIO&_PHYLO-GENETICS_363 Prerequisite/s: [GTS353 GS] S2 2 1 or [TDH]	18
Totals for compulsory modules in the third/fourth quarter 6/6 3/3 2	7/27
Electives can be chosen from the following list of third-year modules: BCM351, BCM352, BCM35 BCM355, BCM364, BCM365, BCM366, BOT351, BOT352, BOT353, BOT354, BOT361, BOT362, BOT363, FAR305, MBY351, MBY352, MBY353, MBY361, MBY362, MBY363, MBY364, PLG351,	4,
PLG361, PLG362, PLG363, ZEN351, ZEN352, ZEN353, ZEN354, ZEN355, ZEN361, ZEN362, ZEN363, ZEN364, ZEN365.	
ZEN363, ZEN364, ZEN365.	

Field of study	Dept	Code
BSc Geography	GGY	02133385

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GGY132	CARTOGRAPHIC_SKILLS_132 Prerequisite/s: [Par 1.2]	S1	0	1	4
GGY153	GEOGRAPHY_OF_CITIES_153 Prerequisite/s: [Par 1.2]	K1	4	0	6

Totals for compulsory modules in the first/second quarter						
Totals for compulsory modules in the first/second quarter	GGY154	GEOGRAPHY_OF_TOURISM_154 Prerequisite/s: [Par 1.2]	K2	4	0	6
### WTW 134 can be taken instead of WTW 114. First year, second semester: Code	WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
First year, second semester: Code		Totals for compulsory modules in the first/second quarter		12/12	2/2	22/22
Code	WTW 134	can be taken instead of WTW 114.				
Code						
CIL173 COMPUTER_&_INFORM.LITERACY_173				_		
CIL174 COMPUTER_&_INFORM.LITERACY_174						
EOT153			_			
EOT154 LANGUAGE_PROFICIENCY(4)_154			_		_	_
REMOTE_SENSING_162 Prerequisite/s: [Par 1.2]		_	_			_
GGY163 BIOGEOGRAPHY_OF_SA_163 Prerequisite/s: [Par 1.2]			_	-		
GGY164 PHYSICAL_GEOGRAPHY_OF_SA_164 Totals for compulsory modules in the third/fourth quarter Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (72) Elective credits = (80) Second year, first semester: Code Name Qrt Ipw ppw Crc GGY252 PROCESS_GEOMORPHOLOGY_252 K2 4 2 12 12 12 12 12 12			_	_		
Totals for compulsory modules in the third/fourth quarter			_			
Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (72) Elective credits = (80) Second year, first semester: Code	GGY164		Κ	-		
Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (72) Elective credits = (80) Second year, first semester: Code						14/14
Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (72) Elective credits = (80) Second year, first semester: Code			-			
Compulsory credits = (72) Elective credits = (80)						d
Compulsory credits = (72) Elective credits = (80) Second year, first semester: Code			ics, l	Histor	у,	
Second year, first semester: Code	Psycholog	gy, Sociology, Political Sciences.				
Second year, first semester: Code		O I I' (70) FI (1 I' (00)				
Code		Compulsory credits = (72) Elective credits = (80)				
Code						
GGY252 PROCESS_GEOMORPHOLOGY_252 K2 4 2 12 12 12 12 12 12			١,	.1.	_	O 1:
GGY283 INTRODUCTORY_GIS_283 Totals for compulsory modules in the first/second quarter Value Value			_			
Totals for compulsory modules in the first/second quarter A A A A A A A A A			_	-		
Second year, second semester: Code Name Qrt pw ppw Crc GGY263 URBAN_MODELLING_263 K3 4 2 12 GGY264 URBAN_SOCIAL_MORPHOLOGY_264 K4 4 2 12 Totals for compulsory modules in the third/fourth quarter 4/4 2/2 12/ Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt pw ppw Crc GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt pw ppw Crc Code Name Qrt pw ppw	GG 1283		5	<u> </u>		
Code Name Qrt lpw ppw Crc GGY263 URBAN_MODELLING_263 K3 4 2 12 GGY264 URBAN_SOCIAL_MORPHOLOGY_264 K4 4 2 12 Totals for compulsory modules in the third/fourth quarter 4/4 2/2 12/ Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt lpw ppw Crc GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt lpw ppw Crc				4/4	2/2	12/12
GGY263 URBAN_MODELLING_263 K3 4 2 12 GGY264 URBAN_SOCIAL_MORPHOLOGY_264 K4 4 2 12 Totals for compulsory modules in the third/fourth quarter 4/4 2/2 12/2 Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt Ipw ppw Credits GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/2 Third year, second semester: Code Name Qrt Ipw ppw Credits C			١,	.1.	_	0 11
GGY264 URBAN_SOCIAL_MORPHOLOGY_264 K4 4 2 12 Totals for compulsory modules in the third/fourth quarter 4/4 2/2 12/2 Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt Ipw ppw Credits GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/2 Third year, second semester: Code Name Qrt Ipw ppw Credits						
Totals for compulsory modules in the third/fourth quarter A 2 12 12 12 12 12 12			_			
Electives can be chosen from modules in the following departments: Geography, Geoinformatics ard Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code	GG Y 264		K ²	_		
Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt pw ppw Credits = (48) Elective Credits = (96) GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/11/11/11/11/11/11/11/11/11/11/11/11/1		lotals for compulsory modules in the third/fourth quarter		4/4	2/2	12/12
Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mathematics and Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt pw ppw Credits = (48) Elective Credits = (96) GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/11/11/11/11/11/11/11/11/11/11/11/11/1						
Applied Mathematics, Computer Science, Archaeology, Anthropology, Economics, History, Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt pw ppw Crc GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/1		9 ,	•			
Psychology, Sociology, Political Sciences. Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code						u
Compulsory credits = (48) Elective credits = (96) Third year, first semester: Code Name Qrt Ipw ppw Cro GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt Ipw ppw Cro			ics, i	115101	у,	
Third year, first semester: Code	1 Sycholog	gy, occiology, i diffical ociences.				
Third year, first semester: Code		Compulsory credits - (48) Flective credits - (96)				
Code Name Qrt lpw ppw Cro GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt lpw ppw Cro		Compaisory creates = (40) Elective creates = (90)				
Code Name Qrt lpw ppw Cro GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18 GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt lpw ppw Cro	Third yes	r first samastar:				
GGY353 URBAN_DEVELOPMENT_STUDIES_353 K2 4 2 18			Or	t Inw	nnw/	Crdt
GGY354 DEVELOPMENT_GEOGRAPHY_354 K1 4 2 18 Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt pw ppw Crd					-	
Totals for compulsory modules in the first/second quarter 4/4 2/2 18/ Third year, second semester: Code Name Qrt pw ppw Crd			_	_		
Third year, second semester: Code Name Qrt pw ppw Crd	001354		r	_		18/18
Code Name Qrt lpw ppw Crc		rotats for compulsory modules in the hist/second qualter		4/4	212	10/10
Code Name Qrt lpw ppw Crc	This is a line					
			^	.1.		0. "
GGY361 ENVIRONM.GEOMORPHOLOGY_361 K3 4 2 18					-	Crdt
<u> </u>	GG Y361	ENVIKONM.GEOMORPHOLOGY_361	K	4	2	18

Compulsory credits = (72) Elective credits = (72)				
Meteorology, Plant Production and Soil Science, Chemistry, Botany, Geology, Mapplied Mathematics, Computer Science, Archaeology, Anthropology, Economi Psychology, Sociology, Political Sciences.				d
Electives can be chosen from modules in the following departments: Geograph	, Ge	oinfo	rmati	cs and
Totals for compulsory modules in the third/fourth quarter		4/4	2/2	18/18
GGY362 NATURAL_RESOURCE_MANAGEM.362	K4	4	2	18

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Geoinformatics	GGY	02133383

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GGY132	CARTOGRAPHIC_SKILLS_132 Prerequisite/s: [Par 1.2]	S1	0	1	4
GGY153	GEOGRAPHY_OF_CITIES_153 Prerequisite/s: [Par 1.2]	K1	4	0	6
GGY154	GEOGRAPHY_OF_TOURISM_154 Prerequisite/s: [Par 1.2]	K2	4	0	6
GMC110	CARTOGRAPHY_110 Prerequisite/s: [GGY132]	S1	3	0	8
INF112	INFORMATICS_112 Prerequisite/s: [Par 1.2]	S1	3	0	10
INF153	INFORMATICS_153 Prerequisite/s: [Par 1.2]	S1	2	0	5
INF154	INFORMATICS_154 Prerequisite/s: [Par 1.2]	S1	1	2	5
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		21/21	4/4	36/36
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GGY162	REMOTE_SENSING_162 Prerequisite/s: [Par 1.2]	S2	0	1	4
GGY163	BIOGEOGRAPHY_OF_SA_163 Prerequisite/s: [Par 1.2]	K3	4	0	6
GGY164	PHYSICAL_GEOGRAPHY_OF_SA_164	K4	4	0	6
INF163	INFORMATICS_163 Prerequisite/s: [INF153 GS]	S2	2	0	5
INF164	INFORMATICS_164 Prerequisite/s: [INF154 GS]	S2	1	2	5
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		15/15	5/5	27/27
	Compulsory credits = (126) Elective credits = (26)				
Second y	ear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
GGY283	INTRODUCTORY_GIS_283	S1	4	2	12
GMC210	CARTOGRAPHY_210 Prerequisite/s: [GMC110]	S1	3	1	12

INIE214	INFORMATICS_214 Prerequisite/s: [CIL171] and [CIL172] and	S1	Т	3	1	14
IINFZ 14	[CIL173] and [CIL174]	31	'	3	'	14
WST110	MATHEMATICAL STATISTICS 110 Prerequisite/s: [Par 1.2]	S1	ī	4	1	16
	Totals for compulsory modules in the first/second quarter	1 -		4/10	5/3	33/21
Second v	ear, second semester:		-			
Code	Name	Qrt	i Ir	OW	ppw	Crdt
GIS220	GEOGRAPHIC_DATA_ANALYSIS_220	S2	T	3	1	12
GMA220	REMOTE_SENSING_220 Prerequisite/s: [GPS220] or [TDH]	S2		3	1	16
INF261	INFORMATICS_261 Prerequisite/s: [INF214 GS]	K3		3	2	7
INF262	INFORMATICS_262	K4		3	2	7
SUR220	SURVEYING_220 Prerequisite/s: [WTW114 GS]	S2		3	1	16
WST120	MATHEMATICAL_STATISTICS_120 Prerequisite/s: [WST110 GS]	S2		4	1	16
	Totals for compulsory modules in the third/fourth quarter		14	1/14	5/5	37/37
	Compulsory credits = (128) Elective credits = (16)					
Third yea	r, first semester:					
Code	Name	(Qrt	lpw	ppw	Crdt
	Name GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH]	_	Qrt S1	lpw 3	ppw 1	Crdt 24
GIS310	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283]	or	_	_	_	
GIS310	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH]	or	S1	3	1	24
GIS310 GMC310	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210]	or	S1	3	1	24
GIS310 GMC310	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter	or	S1 S1	3	1 2/2	24 24 24/24
GIS310 GMC310 Third year Code	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester:	or	S1 S1	3 6/6	1 2/2	24 24 24/24
GIS310 GMC310 Third year Code GIS320 GMA320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter rr, second semester: Name	or	S1 S1 Qrt	3 6/6 Ipw	1 1 2/2 ppw	24 24/24 Crdt
GIS310 GMC310 Third yea Code GIS320 GMA320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester: Name SPATIAL_ANALYSIS_320 Prerequisite/s: [GIS310] or [TDH] REMOTE_SENSING_320 Prerequisite/s: [GMA220] and [WST161] are	or	S1 S1 Qrt S2	3 6/6 Ipw 3	1 2/2 ppw 1	24 24 24/24 Crdt 24
GIS310 GMC310 Third yea Code GIS320 GMA320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester: Name SPATIAL_ANALYSIS_320 Prerequisite/s: [GIS310] or [TDH] REMOTE_SENSING_320 Prerequisite/s: [GMA220] and [WST161] ar [WST162]	or	S1 S1 Qrt S2 S2	3 6/6 Ipw 3 3	1 2/2 ppw 1 1	24 24/24 Crdt 24 24
GIS310 GMC310 Third yea Code GIS320 GMA320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester: Name SPATIAL_ANALYSIS_320 Prerequisite/s: [GIS310] or [TDH] REMOTE_SENSING_320 Prerequisite/s: [GMA220] and [WST161] ar [WST162] PROJECT:_GEOMATICS_320 Prerequisite/s: [GIS310] or [TDH]	or	S1 S1 Qrt S2 S2	3 6/6 Ipw 3 3	1 2/2 ppw 1 1	24 24 24/24 Crdt 24 24
GIS310 GMC310 Third yea Code GIS320 GMA320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester: Name SPATIAL_ANALYSIS_320 Prerequisite/s: [GIS310] or [TDH] REMOTE_SENSING_320 Prerequisite/s: [GMA220] and [WST161] ar [WST162] PROJECT:_GEOMATICS_320 Prerequisite/s: [GIS310] or [TDH]	or	S1 S1 Qrt S2 S2	3 6/6 Ipw 3 3	1 2/2 ppw 1 1	24 24/24 24/24 Crdt 24 24
GIS310 GMC310 Third yea Code GIS320 GMA320 GMT320	GEOGRAPHIC_INFORMATION_SYS.310 Prerequisite/s: [GGY283] [TDH] CARTOGRAPHY_310 Prerequisite/s: [GMC210] Totals for compulsory modules in the first/second quarter ir, second semester: Name SPATIAL_ANALYSIS_320 Prerequisite/s: [GIS310] or [TDH] REMOTE_SENSING_320 Prerequisite/s: [GMA220] and [WST161] ar [WST162] PROJECT:_GEOMATICS_320 Prerequisite/s: [GIS310] or [TDH] Totals for compulsory modules in the third/fourth quarter	or	S1 S1 Qrt S2 S2	3 6/6 Ipw 3 3	1 2/2 ppw 1 1	24 24/24 24/24 Crdt 24 24

Field of study	Dept	Code
BSc Geology	GLY	02133022

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
GLY151	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	K1	4	1	8
GLY152	PHYSICAL_GEOLOGY_152 Prerequisite/s: [Par 1.2]	K2	4	1	8
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		16/16	3/3	30/30
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt

CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4	1	8
GLY162	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	1	8
	Totals for compulsory modules in the third/fourth quarter		12/12	2/2	22/22

Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Physics, Computer Science, Mining Engineering and Civil and Biosystems Engineering.

Compulsory credits = (104) Elective credits = (48)

Second year, first seme:	ester:
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Code	Name	Qrt	lpw	ppw	Crdt
GLY251	CRYSTAL_OPTICS_&_CRYS.CHEM.251 Prerequisite/s: [CMY117 GS]	K1	4	2	12
	and [GLY151]				
GLY252	MINERALOGY_252 Prerequisite/s: [GLY251 GS]	K2	4	2	12
GLY253	SEDIMENTOLOGY_253	K2	4	2	12
GLY254	STRUCTURAL_GEOLOGY_254	K1	4	2	12
Totals for compulsory modules in the first/second quarter		8/8	4/4	24/24	

Second year, second semester:

Code	Name	Qrt	lpw	ppw	Crdt
GLY261	IGNEOUS_PETROLOGY_261	K3	4	2	12
GLY262	METAMORPHIC_PETROLOGY_262 Prerequisite/s: [GLY252]	K4	4	2	12
GLY263	SA_STRATIGRAPHY_&_ENG.GEOL.263 Prerequisite/s: [TDH]	K3	4	2	12
GLY264	INTRODUCTION_TO_GEOPHYSICS_264 Prerequisite/s: [TDH]	K4	4	2	12
	Totals for compulsory modules in the third/fourth quarter		8/8	4/4	24/24

Electives can be chosen from modules in the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and Applied Mathematics, Physics, Computer Science, Mining Engineering and Civil and Biosystems Engineering.

Compulsory credits = (96) Elective credits = (48)

Third year, first semester:

Code	Name	Qrt	lpw	ppw	Crdt
GLY351	GROUNDWATER_351	K1	4	2	18
GLY352	ORE_FORMATION_352 Prerequisite/s: [GLY261]	K2	4	2	18
	Totals for compulsory modules in the first/second quarter		4/4	2/2	18/18

Third year, second semester:

Code	Name	Qrt	lpw	ppw	Crdt	ı
GLY361	ORE_DEPOSITS_361	K3	4	2	18	l
GLY362	GEOSTAT.&_ORE_RESERVCALC.362	K4	4	2	18	İ

eteorology, Geology, Plant Production and Soil Science, Chemistry, Botany, Mathematics and plied Mathematics, Physics, Computer Science, Mining Engineering and Civil and Biosystems gineering.	Compulsory credits = (72) Elective credits = (72)	
actives and he change from modules in the following departments: Congressly, Coninformatics and	pplied Mathematics, Physics, Computer Science, Mining Engineering and Civil ingineering.	athematics and
	Totals for compulsory modules in the third/fourth quarter	4/4 2/2 18

Field of study	Dept	Code
BSc Human Genetics	GTS	03134031

First year	r, first semester:					
Code	Name	(Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16
	Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38
First year	r, second semester:					
Code	Name	C	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] an	d S	32	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%					
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]	_				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	_	32	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173	k	(3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	k	〈 4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	5	32	4	1	16
	CMY101]	_				
EOT153	LANGUAGE_PROFICIENCY(3)_153	ŀ	(3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	_	(4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] c [TDH]	r S	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] [32	2	0.5	8
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161	ŀ	(3	4	1	8
	Totals for compulsory modules in the third/fourth quarter			22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)				
Second	rear, first semester:					
Code		Qrt	lр	W r	pw	Crdt
BCM251		S1	_).5	12
DCIVIZO I	INTINOTO_F NOTα_ENZTINES_ZOT FTETEQUISITE/S. [CINTTT7]	υı		- (<i>ι</i> .υ	12

	r				-	
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2		0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BME210	BIOMETRY_210 Prerequisite/s: [BME120]	S1	4		1	24
FLG211	INTRODUCTORY_&_NEUROPHYS.211 Prerequisite/s:	S1	2		1	16
	[CMY117 GS] and [CMY127 GS] and [MLB111 GS] and					
	[PHY171 GS or PHY131 GS] or [TDH]					
FLG212	CIRCULATORY_PHYSIOLOGY_212 Prerequisite/s: [CMY117	S1	2		1	16
	GS] and [CMY127 GS] and [MLB111 GS] and [PHY171 GS or					
	PHY131 GS] or [TDH]					
GTS251	GENE & CHROMOSOME ORGANIZ. 251 Prerequisite/s:	S1	2		0.5	12
	[GTS161 GS] or [TDH]	-				
	Totals for compulsory modules in the first/second quarter		14/1	4 4	5/4.5	46/46
Cocond v	/ear, second semester:		, .		0/ 1.0	10/10
		0	la	. 1		01
Code	Name	Qrt	lpw		opw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	S2	2		0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	S2	2		0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
FLG221	LUNG/RENAL/ACID-BASE/TEMP221 Prerequisite/s: [FLG211]	S2	2		1	16
	and [FLG212]					
FLG222	DIGEST.ENDOCR.&_REPROD/SYS222 Prerequisite/s:	S2	2		1	16
	[FLG211] and [FLG212] or [TDH]					
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161	S2	2		0.5	12
	GS] or [TDH]					
	Totals for compulsory modules in the third/fourth quarter		10/1	0 3.	5/3.5	34/34
	Compulsory credits = (148) Elective credits = (0)				
	(****) =********************************	-,				
Third ves	ar, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
			K1	1pw	ppw 1	9
	BIOCHEMISTRY_OF_PROTEINS_351 Prerequisite/s: [BCM251]		_			
BCM354	BIOCHEMOF_NUCLEIC_ACIDS_354 Prerequisite/s: [BCM251]	and	S1	1	0.5	9
	[BCM252] and [BCM261] and [BCM262]					
BCM355	IMMUNOBIOLOGY_355 Prerequisite/s: [BCM251] and [BCM252]	and	S1	1	0.5	9
	[BCM261] and [BCM262]					
GTS351	EUKARYOTIC_GENE_CON.&_DEVL.351 Prerequisite/s:		S1	2	1	18
	[GTS251GS] and [GTS261 GS] or [TDH]					
GTS352	GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS] o	r	S1	2	1	18
	[TDH]					
	1					40
GTS353		S]	S1	2	1	18
GTS353	1	S]	S1	2	1	18
GTS353	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G	S]	S1	10/8		45/36
GTS353	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH]	S]	S1			
	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter			10/8	5/4	45/36
Electives	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter to be chosen from the following list of third-year subjects: BCM3:			10/8	5/4	45/36
Electives BCM364,	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter to be chosen from the following list of third-year subjects: BCM3: FAR305, MBY351, MBY353, MBY364, MBY363.			10/8	5/4	45/36
Electives BCM364, Third yea	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter to be chosen from the following list of third-year subjects: BCM3: FAR305, MBY351, MBY353, MBY364, MBY363. ar, second semester:		всма	10/8 365, I	5/4 3CM3	45/36 66,
Electives BCM364, Third year	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter to be chosen from the following list of third-year subjects: BCM3: FAR305, MBY351, MBY353, MBY364, MBY363. ar, second semester: Name	52, E	3CM3	10/8 365, I	5/4 3CM3	45/36 66,
Electives BCM364, Third yea Code GTS361	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 G and [GTS261 GS] or [TDH] Totals for compulsory modules in the first/second quarter to be chosen from the following list of third-year subjects: BCM3: FAR305, MBY351, MBY353, MBY364, MBY363. ar, second semester:	52, E	всма	10/8 365, I	5/4 3CM3	45/36 66,

GTS363 EVOLUTIO&_PHYLO-GENETICS_363 Prerequisite/s: [GTS353 GS] or [TDH]	S2	2	1	18		
Totals for compulsory modules in the third/fourth quarter		4/4	2/2	18/18		
Compulsory credits = (117) Elective credits = (36)						
A minimum of (453) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc Human Physiology	FLG	03134021

First year, first semester:							
Code	Name	Qrt	lpw	ppw	Crdt		
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3		
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3		
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16		
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3		
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3		
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16		
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16		
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16		
Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38		

Students who are going to apply for the 20-30 MBChD, or the 2-3 BChD places, that become available in the second quarter, may enroll for FIL155, MGW112 and MTL181 instead of WTW134 under the condition that, should they not be selected and want to continue with BSc, WTW158 or WTW134 be taken in the second semester.

First year	First year, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.]	S2	4	1	16		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3		
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	4	1	16		
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3		
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3		
	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8		
	Totals for compulsory modules in the third/fourth quarter		14/14	2.5/2.5	26/26		

Electives can be chosen from ANA121, ANA126, MBY161 or WTW152. Students who did not take WTW134 in the first semester are reminded to enroll for it in the second semester.

Compulsory	credits = ((128)	Elective	credits =	(24)
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Second y	rear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS]	S1	2	0.5	12

	I-m d (OM)/407 OOL and (MI D444 OOL	ı	ı —		
DOI 1050	and [CMY127 GS] and [MLB111 GS]	0.4		0.5	40
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	0.5	12
FLG211	INTRODUCTORY_&_NEUROPHYS.211 Prerequisite/s: [CMY117 GS]	S1	2	1	16
	and [CMY127 GS] and [MLB111 GS] and [PHY171 GS or PHY131 GS or ITDH]				
FLG212	CIRCULATORY_PHYSIOLOGY_212 Prerequisite/s: [CMY117 GS]	S1	2	1	16
	and [CMY127 GS] and [MLB111 GS] and [PHY171 GS or PHY131 GS or ITDH]				
	Totals for compulsory modules in the first/second quarter		8/8	3/3	28/28
			•		
Second y	year, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2	2	0.5	12
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2	2	0.5	12
FLG221	LUNG/RENAL/ACID-BASE/TEMP221 Prerequisite/s: [FLG211] and	S2	2	1	16
FLG222	[FLG212] DIGEST.ENDOCR.&_REPROD/SYS222 Prerequisite/s: [FLG211] and	S2	2	1	16
	[FLG212] or [TDH]		0/0	0./0	00/00
	Totals for compulsory modules in the third/fourth quarter		8/8	3/3	28/28
Clastices.	ann ha shasan fram Canatian Misrahislamu Datanu ay Zaslamu				
Electives	can be chosen from Genetics, Microbiology, Botany or Zoology.				
Electives					
Electives	can be chosen from Genetics, Microbiology, Botany or Zoology. Compulsory credits = (112) Elective credits = (24)				
	Compulsory credits = (112) Elective credits = (24)				
Third yea		Qrt	lpw	ppw	Crdt
Third yea	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name	Qrt S1	lpw 2	ppw 2	Crdt 15
Third yea Code ANA316	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316	S1	2	2	15
Third yea Code ANA316 FLG311	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221]	_	-	-	
Third yea Code ANA316 FLG311	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222]	S1 S1	1	1	15 14
Third yea Code ANA316 FLG311	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221]	S1	2	2	15
Third yea Code ANA316 FLG311 FLG312	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222]	S1 S1 S1	2 1 2	1 0	15 14 14
Third year Code ANA316 FLG311 FLG312	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221]	S1 S1	1	1	15 14
Code ANA316 FLG311 FLG312	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222]	S1 S1 S1	2 1 2	1 0	15 14 14
Code ANA316 FLG311 FLG312 FLG313	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221]	S1 S1 S1	2 1 2	0	15 14 14
Code ANA316 FLG311 FLG312 FLG313	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [FLG221] and [FLG222] IMGURDA SEMENTAL STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [FLG221] and [FLG222]	S1 S1 S1	2 1 2	0	15 14 14 14
Code ANA316 FLG311 FLG312 FLG313	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [FLG221] and [FLG222] IMMUNOLOGY_314 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG222]	S1 S1 S1	2 1 1 1	0 0	15 14 14 14
Code ANA316 FLG311 FLG312 FLG313	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [FLG221] and [FLG222] IMMUNOLOGY_314 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG222] Totals for compulsory modules in the first/second quarter	S1 S1 S1	2 1 2 1 1 7/7	2 1 0 1 0 4/4	15 14 14 14
Third year Code ANA316 FLG311 FLG312 FLG313 FLG314 Third year Code FLG322	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] IMMUNOLOGY_314 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_PHYSIOLOGY_322 Prerequisite/s: [BCM251 GS] and [BCM251 GS] and [BCM252 GS] and [BCM252 GS] and [BCM251 GS] and [BCM251 GS] and [BCM251 GS] and [BCM252 GS] and [BCM251 GS] and [B	S1 S1 S1 S1	2 1 2 1 1 7/7	0 1 0 4/4	15 14 14 14 9 33/33
Code ANA316 FLG311 FLG312 FLG314 Third yea Code FLG322	Compulsory credits = (112) Elective credits = (24) ar, first semester: Name HISTOLOGY_TECHNIQUES_316 APPL.CELLULAR_PHYSIOLOGY_311 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] DEVELOPMENTAL_PHYSIOLOGY_312 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] RESEARCH_METH.&_LIT.STUDY_313 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] IMMUNOLOGY_314 Prerequisite/s: [BCM251 GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222] Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_PHYSIOLOGY_322 Prerequisite/s: [BCM251 GS] and	S1 S1 S1 S1	2 1 2 1 1 7/7	2 1 0 1 0 4/4	15 14 14 14 9 33/33

FLG324	EXERCISE_PHYSIOLOGY_324 Prerequisite/s: [BCM251 GS] and	S2	1	1	9		
	[BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and						
	[FLG222]						
FLG325	NUTRITION_PHYSIOLOGY_325 Prerequisite/s: [BCM251 GS] and	S2	1	0	9		
	[BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and						
	[FLG222]						
FLG328	PATHOPHYSIOLOGY_328 Prerequisite/s: [BCM251 GS] and [BCM252	S2	1	0	9		
	GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG222]						
Totals for compulsory modules in the third/fourth quarter			4/4	3/3	25/25		
Flanding.	leatives and he shows from Constine 2E4 and 2E4 and 2E2 or Disabomistry 2E2 and 2E5 and 2E7						

Electives can be chosen from Genetics 351 and 361 and 352, or Biochemistry 352 and 365 and 362 or Microbiology, or Pharmacology 305 or Botany or Zoology

Compulsory credits = (116) Elective credits = (28)

A minimum of (432) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Human Physiology, Genetics and Psychology	FLG	02133392

First year	First year, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16	
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16	
SLK151	PSYCHOLOGICAL_PERSPECTIVES_151	K1	2	0	6	
SLK152	COGNITIVE_PROCESSES_152	K2	2	0	6	
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16	
	Totals for compulsory modules in the first/second quarter		22/22	4/4	44/44	

Students who are going to apply for the 20-30 MBChD, or the 2-3 BChD places, that become available in the second quarter, may enroll for FIL155, MGW112 and MTL181 instead of WTW134 under the condition that, should they not be selected and want to continue with BSc, WTW158 or WTW134 be taken in the second semester.

First year, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	S2	2	0.5	8
	or [TDH]				
SLK154	HEALTH_PSYCHOLOGY_154	K3	2	0	6

	Tatala for acceptulative modulation that their differents received	1	10/10	4 5 /4	5 04/40
	Totals for compulsory modules in the third/fourth quarter				.5 24/18
	ne of SLK155 or SLK156 is compulsory. Electives can be chosen			,	
	. Students who did not take WTW134 in the first semester are ren	ninde	d to er	roll fo	r it in the
second se	emester.				
	Compulsory credits = (130) Elective credits = (22)			
	/ear, first semester:	0	la		01
Code	Name	Qrt	lpw	ppw	
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]				
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]				
FLG211	INTRODUCTORY_&_NEUROPHYS.211 Prerequisite/s:	S1	2	1	16
	[CMY117 GS] and [CMY127 GS] and [MLB111 GS] and				
	[PHY171 GS or PHY131 GS] or [TDH]				
FLG212	CIRCULATORY_PHYSIOLOGY_212 Prerequisite/s: [CMY117	S1	2	1	16
	GS] and [CMY127 GS] and [MLB111 GS] and [PHY171 GS or				
	PHY131 GS] or [TDH]				
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1	2	0.5	12
	[GTS161 GS] or [TDH]				
SLK251	PERSONOLOGY_251 Prerequisite/s: [SLK151] and [SLK152]	K1	2	0	10
SLK253	DEVELOPMENT PSYCHOLOGY 253	K2	2	0	10
	Totals for compulsory modules in the first/second quarter	•	12/12	3.5/3	.5 44/44
Second v	/ear, second semester:			0.0.0	
Code	Name	Qrt	lpw	ppw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	S2	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]				
BCM262	BIOCHEMISTRY IN PERSPECT. 262 Prerequisite/s: [CMY117]	S2	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]				
FLG221	LUNG/RENAL/ACID-BASE/TEMP221 Prerequisite/s: [FLG211]	S2	2	1	16
	and [FLG212]		_		
FI G222	DIGEST.ENDOCR.& REPROD/SYS222 Prerequisite/s:	S2	2	1	16
LOLLL	[FLG211] and [FLG212] or [TDH]	02	-		10
GTS261		S2	2	0.5	12
010201	GS] or [TDH]	02	-	0.0	'-
SI K254	SOCIAL_PSYCHOLOGY_254	K3	2	0	10
	PSYCHOLOGICAL_ASSESSMENT(1)256	K4	2	0	10
JLN236		N4	12/12	_	_
	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (176) Elective credits = ('A\	12/12	ა.ე/პ	.0 44/44
	Compulsory credits = (176) Elective credits = (U)			
Third vea	ar, first semester:				
Code	Name	Q	rt Ipw	ppw	Crdt
	RESEARCH METH.& LIT.STUDY 313 Prerequisite/s: [BCM251	S		1	14
	GS] and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and	ľ			
	[FLG221] and [FLG222]	1			
	IMMUNOLOGY_314 Prerequisite/s: [BCM251 GS] and [BCM252	S	1 1	0	9
EI C314	IIIVIIVIOINOLOGI 314 FIEIEUUISILE/S. IDOIVIZOT GOLAIIU IDOIVIZOZ		1 1	U	J
	GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and				
		1 S	1 2	1	18

	GS] and [GTS261 GS] or [TDH]			T		
SLK351	COMMUNITY_PSYCHOLOGY_351	K1	2	0		15
	ABNORMAL BEHAVIOUR 352 Prerequisite/s: [SLK251] and	K2	2	0		15
	[SLK253]		-	1		
	Totals for compulsory modules in the first/second quarter		6/6	3 2/	2 35	.5/35.5
Third ye	Third year, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
FLG325	NUTRITION_PHYSIOLOGY_325 Prerequisite/s: [BCM251 GS] and		S2	1	0	9
	[BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] are	nd				
	[FLG222]					
FLG327	HIGHER_NEUROLOGICAL_FUNCT.327 Prerequisite/s: [BCM251 (GS]	S2	0	2	20
	and [BCM252 GS] and [BCM261 GS] and [BCM262 GS] and [FLG22	21]				
	and [FLG222]					
FLG328	PATHOPHYSIOLOGY_328 Prerequisite/s: [BCM251 GS] and [BCM2		S2	1	0	9
	GS] and [BCM261 GS] and [BCM262 GS] and [FLG221] and [FLG22	_				
GTS361	HUMAN_GENETICS_361 Prerequisite/s: [GTS251 GS] and [GTS261		S2	2	1	18
	GS] or [TDH]					
SLK353	CRITICAL_PERSPECTIVES_353 Prerequisite/s: [SLK251]		K4	2	0	15
	Totals for compulsory modules in the third/fourth quarter			4/6	3/3	28/43
At least of	one of SLK 354 or SLK 355 is compulsory. GTS 352 is compulsory for	or an	hoi	nours	deg	ree in
Genetics	Pharmacology 305 can also be taken as an elective module.					
	Compulsory credits = (142) Elective credits = (15)				
A minim	um of (485) credits is required to obtain the degree.					

Field of study	Dept	Code
BSc Information Technology (Computer Science)	cos	02133231

-irst year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
COS110	PROGRAM_DESIGN:INTRODUCTION Prerequisite/s: [Par 1.2]	S1	4	1	16
COS151	COMPUTER_SCIENCE_151	S1	2	1	8
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW115	DISCRETE_STRUCTURES_115 Prerequisite/s: [Par 1.2]	S1	2	1	8
	Totals for compulsory modules in the first/second quarter		16/16	4/4	30/30
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
COS283	SYSTEMS_INTEGRATION_283 Prerequisite/s: [COS110GS] or ITDH]	S2	2	1	12
	[I DI I]				

	[TDH]					
EOT153	LANGUAGE_PROFICIENCY(3)_153	K	3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K	4	2	0	3
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S	2	2	1	8
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S	2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		1:	2/12	4/4	26/26
Electives	can be chosen from: Mathematics, Mathematical Statistics, Physic	cs, C	Cher	mistr	у,	
Geograph	y, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 26	3, E	Busi	ness		
Managem	ent, Economics, Psychology, INL111, INL221 and INY224.					
	Compulsory credits = (112) Elective credits = (40))				
Second y	ear, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
COS284	COMPUTER_ARCHITECTURE_284 Prerequisite/s: [COS110] or		S1	2	1	12
	[TDH]					
COS222	OPERATING_SYSTEMS_222 Prerequisite/s: [COS110] or [TDH]		S1	2	1	12
WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and		S1	2	1	12
	[WTW128 or WTW102]					
	Totals for compulsory modules in the first/second quarter			6/6	3/3	18/18
Second y	ear, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or		S2	2	1	12
	[TDH]					
COS221	DATA_BASES_221 Prerequisite/s: [COS110] or [TDH]		S2	2	1	12
WTW285	DISCRETE_STRUCTURES_285 Prerequisite/s: [WTW115]		S2	2	1	12
	Totals for compulsory modules in the third/fourth quarter			6/6	3/3	18/18
Electives	can be chosen from: Mathematics, Mathematical Statistics, Physic	cs, C	Cher	nistr	у,	
Geograph	y, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 26	3, E	Busi	ness		
Managem	ent, Economics, Psychology, INL111, INL221 and INY224.					
	Compulsory credits = (72) Elective credits = (72)					
Third yea	r, first semester:					
Code	Name	(Qrt	lpw	ppw	Crdt
COS301	SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	,	J1	1	1	9
	Totals for compulsory modules in the first/second quarter			1/1	1/1	4.5/4.5
Third yea	r, second semester:					
Code	Name	Qrt	lpv	v pp	w	Crdt
COS301	SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	J1	1	1		9
	DISCRETE_STRUCTURES_385 Prerequisite/s: [WTW126 or	S2	2	1	一	18
	WTW102] and [WTW218] and [WTW285]		1			
	Totals for compulsory modules in the third/fourth quarter		3/:	3 2	2 13	3.5/13.5
	1 /		•			

In addition to COS301, at least four other third-year level COS modules must be included.	
Compulsory credits = (36) Elective credits = (108)	
A minimum of (440) credits is required to obtain the degree.	

Field of study	Dept	Code
BSc Information Technology (Computer Systems)	cos	02133221

First yea	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
COS110	PROGRAM_DESIGN:INTRODUCTION Prerequisite/s: [Par 1.2]	S1	4	1	16
COS151	COMPUTER_SCIENCE_151	S1	2	1	8
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW115	DISCRETE_STRUCTURES_115 Prerequisite/s: [Par 1.2]	S1	2	1	8
	Totals for compulsory modules in the first/second quarter		16/16	4/4	30/30
First yea	r, second semester:				
Code	Name	Qı	t Ipw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K	3 2	0	3
CIL174 COMPUTER_&_INFORM.LITERACY_174		K4	1 2	0	3
COS283 SYSTEMS_INTEGRATION_283 Prerequisite/s: [COS110GS] or [TDH]		S	2 2	1	12
COS284 COMPUTER_ARCHITECTURE_284 Prerequisite/s: [COS110] or [TDH		1] S	2 2	1	12
EOT153	EOT153 LANGUAGE_PROFICIENCY(3)_153		3 2	0	3
EOT154 LANGUAGE_PROFICIENCY(4)_154		Κ	4 2	0	3
Totals for compulsory modules in the third/fourth quarter			8/8	2/2	18/18
	can be chosen from: Mathematics, Mathematical Statistics, Physics			•	
	ny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 263	, Bu	siness		
Managem	nent, Economics, Psychology, INL111, INL221 and INY224.				
	Compulsory credits = (96) Elective credits = (56)				
Second v	year, first semester:				
Code	Name		t lpw	ppw	Crdt
	COMPUTER_ARCHITECTURE_284 Prerequisite/s: [COS110] or [TDF	_		1	12
	OPERATING_SYSTEMS_222 Prerequisite/s: [COS110] or [TDH]	S		1	12
OOCLLL	Totals for compulsory modules in the first/second quarter	J	4/4	<u> </u>	12/12
Second v	vear, second semester:				
Code	Name	Q	t Ipw	ppw	Crdt
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH	_		1	12
	DATA_BASES_221 Prerequisite/s: [COS110] or [TDH]	S	_	1	12
	INTROD.TO DIGITAL SYSTEMS 289 Prerequisite/s: [COS110] and	S		1	12
	[WTW115]		-		
	Totals for compulsory modules in the third/fourth quarter	_	6/6	3/3	18/18

Electives	can be chosen from: Mathematics, Mathematical Statistics, Physic	cs, C	Che	mist	ry,				
Geograph	ny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 26	33, E	Busi	nes	s				
Managem	nent, Economics, Psychology, INL111, INL221 and INY224.								
	Compulsory credits = (60) Elective credits = (84)								
Third year	ar, first semester:								
Code	Code Name C				pp	w Crdt			
COS301 SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]				1	1	9			
Totals for compulsory modules in the first/second quarter 1/1 1/1 4.5/4					1 4.5/4.5				
Third year	ar, second semester:								
Code	Name	Qrt	rt lpw ppv		pw	Crdt			
COS301	SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	J1	J1 1		1		1	9	
	MICROPROCESSOR_SYSTEMS_389 Prerequisite/s: [COS289 and Par 2.2 or TDH]	S2	2		1	18			
	Totals for compulsory modules in the third/fourth quarter		3/	3 2	2/2	13.5/13.5			
In addition	n to COS301, at least four other third-year level COS modules must	be	incl	ude	d.				
	Compulsory credits = (36) Elective credits = (108))							
A minimi	um of (440) credits is required to obtain the degree.								
	and a visit of a sequence to obtain the degree								

Field of study	Dept	Code
BSc Information Technology (Information and Knowledge Systems)	cos	02133211

First year, first semester:							
Code	Name	Qrt	lpw	ppw	Crdt		
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3		
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3		
COS110	PROGRAM_DESIGN:INTRODUCTION Prerequisite/s: [Par 1.2]	S1	4	1	16		
COS151	COMPUTER_SCIENCE_151	S1	2	1	8		
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3		
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3		
INF153	INFORMATICS_153 Prerequisite/s: [Par 1.2]	S1	2	0	5		
INF154	INFORMATICS_154 Prerequisite/s: [Par 1.2]	S1	1	2	5		
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16		
	Totals for compulsory modules in the first/second quarter		17/17	5/5	31/31		
First year	r, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3		

CO5283	CVCTEME INTECDATION 202 Proventicitate ICOCCCCCC	60	1 2	, [1	12
	SYSTEMS_INTEGRATION_283 Prerequisite/s: [COS110GS] or [TDH]	S2			1	12
COS284	COMPUTER_ARCHITECTURE_284 Prerequisite/s: [COS110] or [TDH]	S2	2	2	1	12
FOT153	LANGUAGE_PROFICIENCY(3)_153	K3	1 2	,	0	3
	LANGUAGE PROFICIENCY(4) 154	K4		_	0	3
	INFORMATICS_163 Prerequisite/s: [INF153 GS]	S2	-	_	0	5
	INFORMATICS_164 Prerequisite/s: [INF154 GS]	S2		_	2	5
1141 104	Totals for compulsory modules in the third/fourth quarter	02	11/	_	4/4	23/23
	rotals for compaisory modules in the time/routin quarter		1 1/	•••	7/-7	20/20
Electives	can be chosen from: Mathematics, Mathematical Statistics, Physi	cs, C	hem	istry	,	
	ny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2	63, B	usin	ess		
Manager	nent, Economics, Psychology, INL111, INL221 and INY224.					
	Compulsory credits = (108) Elective credits = (44	.)				
	year, first semester:	-			_	
Code	Name	Qrt	_		٧	Crdt
COS284	COMPUTER_ARCHITECTURE_284 Prerequisite/s: [COS110] or [TDH]	S1	2	1		12
COS222	OPERATING_SYSTEMS_222 Prerequisite/s: [COS110] or [TDH]	S1	2	1		12
INF253	INFORMATICS_253	S1	2	3		9
	Totals for compulsory modules in the first/second quarter		6/6	5/5	16	5.5/16.
Second	year, second semester:					
0 1	Name	Qrt	lpw	ppv	٧	Crdt
Code						
	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or	S2	2	1		12
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH]	S2 S2	2	1		12
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or					
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263	S2	2	1 3	5 16	12
COS213	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH]	S2	2	1 3	5 16	12
COS213 COS221 INF263 Electives	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physi	S2 S2 cs, C	2 2 6/6	1 3 5/5		12
COS213 COS221 INF263 Electives Geograp	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2	S2 S2 cs, C	2 2 6/6	1 3 5/5		12
COS213 COS221 INF263 Electives Geograp	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physi	S2 S2 cs, C	2 2 6/6	1 3 5/5		12
COS213 COS221 INF263 Electives Geograp	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2	S2 S2 cs, C	2 2 6/6	1 3 5/5		12
COS213 COS221 INF263 Electives Geograp Manager	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78)	S2 S2 cs, C	2 2 6/6	1 3 5/5		12
COS213 COS221 INF263 Electives Geograp Manager	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester:	S2 S2 Cs, C 63, B	2 6/6 hem usin	1 3 5/5 istry ess	,	12 9 3.5/16.
COS213 COS221 INF263 Electives Geograp Manager Third ye Code	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name	S2 S2 Cs, C 63, B	2 2 6/6 hem usin	1 3 5/5 istryyess	, ppw	12 9 5.5/16.5
COS213 COS221 INF263 Electives Geograp Manager	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	S2 S2 Cs, C 63, B	2 2 6/6 hemusin	istry ess	, ppw 1	12 9 5.5/16.8 Crdt
COS213 COS221 INF263 Electives Geograp Manager Third ye Code	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name	S2 S2 Cs, C 63, B	2 2 6/6 hemusin	istry ess	, ppw	12 9 5.5/16.s
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2] Totals for compulsory modules in the first/second quarter	S2 S2 Cs, C 63, B	2 2 6/6 hemusin	istry ess	, ppw 1	12 9 5.5/16.s
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	S2 S2 S2 Ccs, CC 63, B	2 6/6 hemusin	istry ess	, ppw 1 1/1	12 9 5.5/16.4 Crdt 9 4.5/4.4
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301 Third ye Code	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2] Totals for compulsory modules in the first/second quarter ar, second semester: Name	S2 S2 S2 Ccs, CC 63, B	2 2 6/6 hemusin	istryeess	, ppw 1	12 9 5.5/16.s
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301 Third ye Code	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2] Totals for compulsory modules in the first/second quarter ar, second semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	S2 S2 S2 Ccs, CC 63, B	2 2 6/6 hemusin	1 3 5/5 istry sess	ppw 1 1/1	12 9 6.5/16.5 Crdt 9 4.5/4.5
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301 Third ye Code	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2] Totals for compulsory modules in the first/second quarter ar, second semester: Name	S2 S2 S2 Ccs, CC 63, B	2 2 6/6 hemusin	1 3 5/5 istry sess	ppw 1 1/1	12 9 5.5/16.4 Crdt 9 4.5/4.4
COS213 COS221 INF263 Electives Geograp Manager Third ye Code COS301 Third ye Code COS301	ADVANCED_PROGRAMMING_213 Prerequisite/s: [COS212] or [TDH] DATA_BASES_221 Prerequisite/s: [COS110] or [TDH] INFORMATICS_263 Totals for compulsory modules in the third/fourth quarter can be chosen from: Mathematics, Mathematical Statistics, Physiny, Geology, Financial Accounting, Informatics 153/4, 163/4, 253, 2ment, Economics, Psychology, INL111, INL221 and INY224. Compulsory credits = (66) Elective credits = (78) ar, first semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2] Totals for compulsory modules in the first/second quarter ar, second semester: Name SOFTWARE_ENGINEERING_301 Prerequisite/s: [Par 2.2]	S2 S2 S2 Ccs, CC G3, B	2 6/6 hemusin	1 3 5/5 istrygess	ppw 1 1/1	12 9 6.5/16.: Crdt 9 4.5/4.:

Compulsory credits = (18) Elective credits = (126)	_
(10) = (10)	-
A minimum of (440) credits is required to obtain the degree	_

Field of study	Dept	Code
BSc Mathematical Statistics	WST	02133273

First year, first semester:						
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
WST110	MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2]	S1	4	1	16	
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16	
Totals for compulsory modules in the first/second quarter				2/2	22/19	
First year	, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3	
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3	
WST120	MATHEMATICAL_STATISTICS_120 Prerequisite/s: [WST110 GS]	S2	4	1	16	
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8	
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8	
	Totals for compulsory modules in the third/fourth quarter		10/12	3/3	19/22	

Students in Mathematical Statistics who also want to be trained for the Insurance Industry, Econometrics or Banking, normally choose:

EKN133, 123(30) or EKN110, 120, 171(25) FBS110, 120(20) or FRK151, 152, 121, 181(25)

COS160(16) or COS110(16)

Other students choose modules from any other subject/faculty according to their own specific requirements.

Compulsory credits = (82) Elective credits = (70)

Second year, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt
	MATHEMATICAL_STATISTICS_210 Prerequisite/s: [WST110] and [WST120] and [WTW114 GS or WTW101 GS] and [WTW126 GS or WTW102 GS]	S1	4	2	24
WTW211	LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102]	S1	2	1	12
	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102]	S1	2	1	12
	Totals for compulsory modules in the first/second quarter		8/8	4/4	24/24
Second y	ear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
WST220	MATHEMATICAL_STATISTICS_220 Prerequisite/s: [WST210 GS]	S2	4	2	24

WTW220 ANALYSIS_220 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102]	S2	2	1	12
WTW221 LINEAR_ALGEBRA_221 Prerequisite/s: [WTW211]	S2	2	1	12
Totals for compulsory modules in the third/fourth quarter		8/8	4/4	24/24

Insurance Industry students normally choose: IAS211, 221, 261 en 262(48); Econometrics students normally choose: EKN251, 252, 220 and STK281(50); Other students choose modules from any other subject/faculty according to their own specific requirements.

Compulsory credits = (96) Elective credits = (48)

Third year, first semester:

Code	Name	Qrt	lpw	ppw	Crdt
WST310	MATHEMATICAL_STATISTICS_310 Prerequisite/s: [WST210] and	S1	4	2	36
	[WST220] and [WTW211 GS] and [WTW218 GS]				
Totals for compulsory modules in the first/second quarter		4/4	2/2	18/18	

Third year, second semester:

Code	Name	Qrt	lpw	ppw	Crdt
WST361	MATHEMATICAL_STATISTICS_361 Prerequisite/s: [WST210] and	S2	2	1	18
	[WST220] and [WTW211 GS] and [WTW218 GS]				
WST362	MATHEMATICAL_STATISTICS_362 Prerequisite/s: [WST210] and	S2	2	1	18
	[WST220] and [WTW211 GS] and [WTW218 GS]				
Totals for compulsory modules in the third/fourth quarter			4/4	2/2	18/18

Insurance Industry students normally choose: IAS351, 352, 361 en 362(72); Econometrics students normally choose: EKN310, 320 and 363(60); Other students choose modules from any other subject/faculty according to their own specific requirements.

Important: Elective modules must be selected in order to comply with the required minimum credits per level, provided there are no clashes on the class, test and examination time tables.

Compulsory credits = (72) Elective credits = (72)

A minimum of (440) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Mathematics	WTW	02133262

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
WST110	MATHEMATICAL_STATISTICS_110 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW115	DISCRETE_STRUCTURES_115 Prerequisite/s: [Par 1.2]	S1	2	1	8
	Totals for compulsory modules in the first/second quarter		14/12	3/3	26/23
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt

		K4	2	0	3		
		K3	2	0	3		
		K4	2	0	3		
		S2	4	1	16		
WTW123		S2	2	1	8		
	WTW101 GS]						
	, , ,	S2 S2	2	1	8		
WTW128	WTW128 CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]				8		
	Totals for compulsory modules in the third/fourth quarter		12/14	4/4	23/26		
	Compulsory credits = (98) Elective credits = (54)						
	ear, first semester:	_	_				
Code	Name		t Ipw		Crdt		
	LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102]	S	_	1	12		
WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and	S	2	1	12		
	[WTW128 or WTW102]						
	Totals for compulsory modules in the first/second quarter		4/4	2/2	12/12		
	ear, second semester:	_	_				
Code	Name	Qr		ppw	Crdt		
WTW220	ANALYSIS_220 Prerequisite/s: [WTW114 or WTW101] and [WTW128 or WTW102]	S2	2 2	1	12		
WTW221	LINEAR_ALGEBRA_221 Prerequisite/s: [WTW211]	S2	2 2	1	12		
WTW286	DIFFERENTIAL_EQUATIONS_286 Prerequisite/s: [WTW114 or	S2	2 2	1	12		
	WTW101] and [WTW126 or WTW102] and [WTW128 or WTW102]						
	Totals for compulsory modules in the third/fourth quarter		6/6	3/3	18/18		
	Compulsory credits = (60) Elective credits = (84)						
Third yea	r, first semester:						
Code	Name	Qr	t Ipw	ppw	Crdt		
	ANALYSIS_310 Prerequisite/s: [WTW220]	S	2	1	18		
WTW381	ALGEBRA_381 Prerequisite/s: [WTW114 or WTW101] and [WTW211]	S	2	1	18		
	Totals for compulsory modules in the first/second quarter		4/4	2/2	18/18		
Third yea	r, second semester:						
Code	Name	Qr	t Ipw	ppw	Crdt		
WTW386	PARTIAL_DIFF_EQUATIONS_386 Prerequisite/s: [WTW218] and [WTW286]	S2	2 2	1	18		
WTW389	GEOMETRY_389 Prerequisite/s: [WTW211]	S2	2 2	1	18		
	Totals for compulsory modules in the third/fourth quarter		4/4	2/2	18/18		
	·						
A minimur	m of 138 credits at 100 to 300 level can be chosen from any WTW, IA	۱S, I	PHY,	COS,	WST		
	dules. The remainder of the electives at 100 to 300 level can be chos						
modules i	modules in the syllabi of this faculty.						
	Compulsory credits = (72) Elective credits = (72)						
A minimu	m of (440) credits is required to obtain the degree.						

Field of study	Dept	Code

BSc Meteorology

L							
First year	, first semester:						
Code	Name	Qrt	lр	W	pp	W	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	2	C)	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	2	C)	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	2	C)	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	2	C)	3
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	1		16
WKD151	ATMOSPHERIC_PROCESSES_151	K1	4	1	0.	6	8
WKD152	ATMOSPHERIC_CIRC.&_CLIMATE_152	K2	4	1	0.	6	8
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	1		16
	Totals for compulsory modules in the first/second quarter		16/	16	2.6/	2.6	30/30
First year	, second semester:						
Code	Name	Qrt	lр	w	pp	w	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	2	C)	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	2	C)	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	2	C)	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	2	C)	3
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	1		16
WKD161	PHYSICAL_&_MESOSCALE_METEO.161	K3	4	ļ	0.	6	8
WKD162	DYNAM.&_NUMERMETEOROLOGY_162	K4	4	ļ	0.6		8
WKD163	WEATHER_FORECASTING_PRIN163	K4	4	ļ	0		8
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	2	1		8
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	2	1		8
	Totals for compulsory modules in the third/fourth quarter		16/	20	3.6/	3.6	30/38
	Compulsory credits = (128) Elective credits = (2	24)					
Second y	ear, first semester:						
Code	Name		Qrt	Ιp	w	ppw	Crdt
WKD250	WEATHER_FORECASTING_250		S1		5	0	24
	COMMUNITY_PROJECT_253		S1	••	3	0	12
WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and		S1	- 2	2	1	12
	[WTW128 or WTW102]						
	Totals for compulsory modules in the first/second quarter			10	/10	1/1	24/24
Second y	ear, second semester:						
Code	Name		_	_	_	ppw	Crdt
	PHYSICAL_METEOROLOGY_261		_	3	4	0	12
WKD262	CLIMATE_DATA_MANIPULATION_262		K	4	1	0	12
	Totals for compulsory modules in the third/fourth quarter				4/1	0/0	12/12
	Compulsory credits = (72) Elective credits = (7	2)					
	r, first semester:						
Code	Name	_	Qrt	_		OW	Crdt
	ATMOSPHERIC_BALANCE_LAWS_351	_	< 1	4	0	.6	18
WKD352	ATMOSPVORTIC&DIVERGENC.352	ŀ	⟨2	4	_	.6	18
	Totals for compulsory modules in the first/second quarter			4/4	0.6	/0.6	18/18

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Third yea	ir, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
WKD360	RESEARCH_PROJECT_360	S2	5	2	36		
WKD361	QUASI-GEOSTROPHIC_ANALYSIS_361	K3	4	0	18		
WKD362	CLOUD_&_BOUNDARY_LAYER_DYN.362	K4	4	0	18		
	Totals for compulsory modules in the third/fourth quarter		9/9	2/2	36/36		
Geograph	for the first to third year can be chosen from modules in the following y, Geoinformatics and Meteorology, Geology, Plant Production and Soi v, Botany, Mathematics and Applied Mathematics, Physics, Computer S	l Sci	ence				
	Compulsory credits = (108) Elective credits = (36)						
A minimum of (440) credits is required to obtain the degree.							

Field of study	Dept	Code
BSc Microbiology	MBY	03133071

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				1
	(SG) Grade 12 Mathematics or an equivalent Mathematics				1
	achievement.]				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	4	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] and [MLB111]	S2	2	0.5	8
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter				
	-				

	Compulsory credits = (152) Elective credits = (0)				
Second y	year, first semester:					
Code	Name	Qrt	lpw	р	pw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	C).5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	C).5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or ITDH]	S1	2		1	12
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH]	S1	2	C).5	12
MDVOE4	GROWTH DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1	2		1	12
	[MBY161 GS]					
ZEN251	INVERTEBRATE_BIOLOGY_251	K1	4	_	1	12
	Totals for compulsory modules in the first/second quarter		14/10	4.5	5/3.5	42/30
Second y	year, second semester:					
Code	Name	Qrt	lpw	р	pw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2	2	C).5	12
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2	2	C).5	12
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161]	S2	2		1	12
070001	and [CMY117] and [CMY127] or [TDH]			١.		
	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 GS] or [TDH]	S2	2	().5	12
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY161]	S2	2		1	12
ZEN261		К3	4		1	12
	Totals for compulsory modules in the third/fourth quarter		14/10	4.5	5/3.5	42/30
	· · ·					
	Compulsory credits = (144) Elective credits = (0)				
	, , , , , , , , , , , , , , , , , , , ,					
Third yea	ar, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
MBY351	STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 [CMY127] and [MBY161]] and	d S1	2	1	18
MBY352	ENVIRONMENTAL_MICROBIOLOGY_352 Prerequisite/s: [MBY1	611	S1	2	1	18
	VERTIBRATE-MICROBE_INTERAC.353	,	S1	2	1	18
	GENERAL PLANTPATHOLOGY 351		S1	2	1	18
5001	Totals for compulsory modules in the first/second quarter		٥.	8/8	4/4	36/36
PI G351	may be replaced by GTS352 or BCM351 and BCM355.			5, 5	···	30,00
Third year	ar, second semester:					
Code			Qrt	lpw	ppw	Crdt
MBY361	INDUSTRIAL_MICROBIOLOGY_361 Prerequisite/s: [BCM251] ar [MBY251]	nd	S2	2	1	18
MBY362	FOOD_MICROBIOLOGY_362 Prerequisite/s: [MBY251]		S2	2	1	18

and ICMV4271 and IMPV4641	T						
and [CMY127] and [MBY161]							
MBY364 GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251] and	S2	2	1	18			
[CMY127] and [MBY161]							
Totals for compulsory modules in the third/fourth quarter		8/8	4/4	36/36			
MBY361 may be replaced with PLG364.							
Compulsory credits = (144) Elective credits = (18)							
A minimum of (458) credits is required to obtain the degree.							

Field of study	Dept	Code
BSc Nutrition and Food Science	VDW	03134012

First yea	r, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
FSG110	PHYSIOLOGY_110		S1	3	0	6
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16
	Totals for compulsory modules in the first/second quarter			23/2	3 4/4	41/41
First year	r, second semester:					
Code	Name	Qrt	lp۱	w ppw		Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS]	S2	4		1	16
	and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or					
	50% (SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]					
	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2		0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4		1	16
	CMY101]					
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2		0	3
	LANGUAGE_PROFICIENCY(4)_154	K4	2	_	0	3
	PHYSIOLOGY_120 Prerequisite/s: [FSG110 GS]	S2	3		0	6
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	S2	2	:	0.5	8
	or [TDH]					
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2	:	0.5	8
	[CMY117] and [MLB111]					
	Totals for compulsory modules in the third/fourth quarter		19/	19 3	.5/3.5	33/33
-	Compulsory credits = (148) Elective credits = (0)				
Second y	ear, first semester:					

Name

Code

Qrt Ipw

Crdt

ppw

BCM251 INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY11]	7 S1	1	2	0.5	П	12
GS] and [CMY127 GS] and [MLB111 GS]						
BCM252 CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	S1 2		0.5		12
FST250 INTRO/FOOD SCIENCE & TECH. 250 Prerequisite/s:	- 1		1	+	12	
[CMY117] and [CMY127] and [MBY161] and [PHY131] and	1					
[WTW134] or [TDH]						
VDG250 NUTRITION_250 Prerequisite/s: [CMY127]	S1	,	3	0.5	,	12
VDG310 NUTRITION_310 Prerequisite/s: [FSG110 or VDG220] and	S1	1	3	1		14
[FSG120 or VDG163]						
VDS210 FOODS_210	S1	,	3	1		16
Totals for compulsory modules in the first/second quarter		15	/15	4.5/4	.5	39/39
Second year, second semester:						
Code Name		Qrt	lpw	/ p	wc	Crdt
BCM261 LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY11]	7	S2	2	0	.5	12
GS] and [CMY127 GS] and [MLB111 GS]						
BCM262 BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY11]	7	S2	2	0	.5	12
GS] and [CMY127 GS] and [MLB111 GS]						
FST260 PRIN/FOOD_PROC&_PRESERV260 Prerequisite/s: [CMY1	17]	S2	2	- 1	1	12
and [CMY127] and [MBY161] and [PHY131] and [WTW134] or						
[TDH]		S2		_	_	
KEP220 CULTURAL_EATING_PATTERNS_220			3		0	8
VDG320 NUTRITION_320 Prerequisite/s: [VDG310]			3	_	1	14
VDS221 FOODS_221 Prerequisite/s: [VDS210]				_	1	16
Totals for compulsory modules in the third/fourth quarter			15/1	5 4	/4	37/37
Compulsory credits = (152) Elective credits =	(0)					
Third year, first semester:						
Code Name		Qrt	lpw	/ p	wc	Crdt
FST351 FOOD_CHEMISTRY-(1)_351 Prerequisite/s: [BCM251] and		S1	2		1	18
[BCM252] and [BCM261] and [BCM262] or [TDH]						
FST352 FOOD_CHEMISTRY-(2)_352 Prerequisite/s: [FST351]		S1	2		1	18
VDS310 FOODS_310 Prerequisite/s: [VDS210] and [VDS221]		S1	3		1	16
VVW350 FOOD_AND_HEALTH_350		S1	2		1	18
Totals for compulsory modules in the first/second quarter			10/1	0 4	/4	35/35
Third year, second semester:						
Code Name		C	Qrt Ip	ow p	pw	Crdt
MBY362 FOOD_MICROBIOLOGY_362 Prerequisite/s: [MBY251]		5	32	2	1	18
VVW361 LEGIS&LABEL/ANI&HUMAN_FOOD_361		5	32	2	1	18
VVW362 COMMUNICATION_IN_NUTRITION_362		5	32	2	1	18
VVW363 COM.NUTRITION_&PUBL.HEALTH_363		5	32	2	1	18
Totals for compulsory modules in the third/fourth quarter			8	/8 4	/4	36/36
·			-	-		
Compulsory credits = (142) Elective credits =	(20)					
Compulsory credits = (142) Elective credits =	(20)					

Field of study	Dept	Code
BSc Physics	PHY	02133202

	, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	16	
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]	S1	4	1	16	
	Totals for compulsory modules in the first/second quarter		12/12	2/2	22/22	
First year	, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3	
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3	
PHY171	FIRST_MODULE_IN_PHYSICS_171 Prerequisite/s: [Par 1.2]	J1	4	1	16	
	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8	
	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8	
	Totals for compulsory modules in the third/fourth quarter		12/12	3/3	22/22	
COS110,	127 and PHY161 are recommended. Additional electives can be chos WTW115, WKD151,152,161,162, GLY151,152,161,162, GGY151,152 52,161,162.				,	
	Compulsory credits = (88) Elective credits = (64)					
Second y	ear, first semester:					
Code	Name	Q	rt Ipw	ppw	Crdt	
PHY251	GENERAL_PHYSICS_251 Prerequisite/s: [PHY171 or PHY101,102]	K	1 4	2	12	
	and [WTW211 #] and [WTW218 #]					
PHY252	MODERN_PHYSICS_252 Prerequisite/s: [PHY171 or PHY101,102]	K	2 4	2	12	
	and [PHY251 #] and [WTW211 #] and [WTW218 #]					
WTW211	LINEAR_ALGEBRA_211 Prerequisite/s: [WTW126 or WTW102]	S	1 2	1	12	
WTW218	CALCULUS_218 Prerequisite/s: [WTW114 or WTW101] and	S	1 2	1	12	
	[WTW128 or WTW102]					
	Totals for compulsory modules in the first/second quarter		8/8	4/4	24/24	
Second y	ear, second semester:					
Code	Name	Q	rt Ipw	ppw	Crdt	
PHY261	CLASSICAL_PHYSICS_261 Prerequisite/s: [PHY251 GS] and	K	3 4	2	12	
	[PHY252 GS] and [WTW211 GS] and [WTW218 GS] and [WTW220 i	#]				
	and [WTW221 #]					
PHY262	PHYS_OF_MATER.&RENEW.ENER_262 Prerequisite/s: [PHY251	K	4 4	2	12	
	GS] and [PHY252 GS] and [PHY261 #] and [WTW211 GS] and					
	[WTW218 GS] and [WTW220 #] and [WTW221 #]	┵				
WTW220	ANALYSIS_220 Prerequisite/s: [WTW114 or WTW101] and [WTW128	3 S	2 2	1	12	
	or WTW102]	┸				
WTW221	LINEAR_ALGEBRA_221 Prerequisite/s: [WTW211]	S	2 2	1	12	
	Totals for compulsory modules in the third/fourth quarter			4/4	24/24	
Additional	Additional electives can be chosen from Mathematics, Meteorology, Geology, Geology and Statistics.					

	Compulsory credits = (96) Elective credits = (48)				
Third ve	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
PHY351	QUANTUM_MECH_&_MODELLING_351 Prerequisite/s: [PHY251 #] and [PHY252 #] and [PHY261 GS] and [PHY262 GS] and [WTW220 GS] and [WTW221 GS]	K1	4	2	18
PHY352	SOLID_STATE_PHYS.&_OPTICS_352 Prerequisite/s: [PHY251 #] and [PHY252 #] and [PHY261 GS] and [PHY262 GS] and [PHY351 #] and [WTW220 GS] and [WTW221 GS]	K2	4	2	18
Totals for compulsory modules in the first/second quarter				2/2	18/18
Third ye	ar, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
PHY361	ELECTROMAGNET_&_ELECTRONIC_361 Prerequisite/s: [PHY251] and [PHY252]	K3	4	2	18
PHY362	STATISTICAL_PHYSICS_362 Prerequisite/s: [PHY251] and [PHY252] and [PHY261 #] and [PHY262 #] and [PHY351 GS] and [PHY352 GS] and [PHY361 GS] and [WTW220 #] and [WTW221 #]	K4	4	2	18
Totals for compulsory modules in the third/fourth quarter				2/2	18/18
The follow	ving electives are recommended: WTW310,352,381,383,384,385,389.				
	Compulsory credits = (72) Elective credits = (72)				
A minim	um of (440) credits is required to obtain the degree.				

Field of study	Dept	Code
BSc Plant Pathology	MBY	03134001

First year, first semester:							
Code	Name	Qrt	lpw	ppw	Crdt		
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3		
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3		
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16		
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3		
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3		
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16		
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16		
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16		
Totals for compulsory modules in the first/second quarter				4/4	38/38		
First year	r, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16		
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%						
	(SG) Grade 12 Mathematics or an equivalent Mathematics achievement.]						
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3		
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	4	1	16		

EOT153	LANGUAGE_PROFICIENCY(3)_153		K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] [TDH]	or	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11 and [MLB111]	7]	S2	2	0.5	8
ZEN161	ANIMAL_DIVERSITY_161	- t	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter			22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = ((0)				
	(102)	-,				
Second v	year, first semester:					
Code	Name	Qrt	lpv	v r	pw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	(0.5	12
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	2	(0.5	12
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or ITDH1	S1	2		1	12
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: GTS161 GS] or [TDH]	S1	2	(0.5	12
MBY251		S1	2		1	12
ZEN251	·	K1	4	-	1	12
ZLINZJI	Totals for compulsory modules in the first/second quarter	IXI	14/1		5/3.5	42/30
Second v	/ear, second semester:		14/	10 4.	3/3.3	42/30
Code	Name	Qrt	lpv	w	pw	Crdt
	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	S2		_	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2	2		0.5	12
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	2	2	1	12
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 GS] or [TDH]	S2	2	2	0.5	12
GTS362	INTRODUCTION_TO_PLANTBREED.362 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or [TDH]	S2	2	2	1	18
MBY261		S2	2	2	1	12
	Totals for compulsory modules in the third/fourth quarter		12/	12 4.	5/4.5	39/39
ZEN261 r	may be selected instead of GTS362					
	•					
	Compulsory credits = (150) Elective credits = ((0)				
Third year	ar, first semester:					
Code	Name		Qr	rt Ipw	ppw	Crdt
BOT352	PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH]	61] o	r S1	1 2	1	18
MBY351	STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 [CMY127] and [MBY161]] and	d S1	1 2	1	18

MBY352	ENVIRONMENTAL MICROBIOLOGY 352 Prerequisite/s: [MBY161]	S1	2	1	18		
PLG351	GENERAL_PLANTPATHOLOGY_351	S1	2	1	18		
	Totals for compulsory modules in the first/second quarter		8/8	4/4	36/36		
Third yea	ar, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
	MOLECBIOL.OF_PROKARYOTES_363 Prerequisite/s: [BCM251] and [CMY127] and [MBY161]	S2	2	1	18		
	GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251] and [CMY127] and [MBY161]	S2	2	1	18		
PLG363	PLANT_DISEASE_CONTROL_363	S2	2	1	18		
PLG364	HOST_PATHOGEN_INTERACTIONS_364	S2	2	1	18		
	Totals for compulsory modules in the third/fourth quarter		8/8	4/4	36/36		
Compulsory credits = (144) Elective credits = (0)							
A minimu	A minimum of (446) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc Soil Science	PGW	03133061

First year	, first semester:						
Code	Name		Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3	
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16	
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16	
WTW114	CALCULUS_114 Prerequisite/s: [Par 1.2]		S1	4	1	16	
	Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38	
First year	, second semester:						
Code	Name	Qrt	lpv	٧	opw	Crdt	
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2		0.5	8	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2		0	3	
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4		1	16	
	CMY101]						
EOT153	LANGUAGE_PROFICIENCY(3)_153	К3	2		0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2		0	3	
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2		0.5	8	
	[CMY117] and [MLB111]						
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2		1	8	
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2		1	8	
	Totals for compulsory modules in the third/fourth quarter		16/1	16 4.	5/4.5	30/30	
Compulsory credits = (136) Elective credits = (16)							

Second v	vear, first semester:					
Code	Name	Qrt	lpv	v pi	wc	Crdt
	PHYSICAL_CHEMISTRY_282 Prerequisite/s: [CMY117 or CMY101	K1	4		1	12
	and CMY102] and [CMY127 or CMY101 and CMY102] and					ì
	[WTW114 GS or WTW134 GS or WTW158 GS]					1
CMY284	ORGANIC_CHEMISTRY_284 Prerequisite/s: [CMY117 or CMY101	K2	4		1	12
	and CMY102] and [CMY127 or CMY101 and CMY102]					1
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117	S1	3		1	12
	GS] or [TDH]					1
GLY151	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	K1	4		1	8
GLY152	PHYSICAL_GEOLOGY_152 Prerequisite/s: [Par 1.2]	K2	4		1	8
	Totals for compulsory modules in the first/second quarter		11/1	11 3	/3	26/26
Second y	vear, second semester:					
Code	Name	Qrt	lpv	v p	wc	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4		1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%					1
	(SG) Grade 12 Mathematics or an equivalent Mathematics					1
	achievement.]	ļ	<u> </u>	_		
CMY283	ANALYTICAL_CHEMISTRY_283 Prerequisite/s: [CMY117 or	K3	4		1	12
0111/005	CMY101 and CMY102] and [CMY127 or CMY101 and CMY102]	144	.	_	_	40
CMY285	INORGANIC_CHEMISTRY_285 Prerequisite/s: [CMY117 or	K4	4		1	12
CKDaca	CMY101 and CMY102] and [CMY127 or CMY101 and CMY102]	60	_	Н.	_	12
	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 GS]	S2		_	1 1	
	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3		_		8
GLY162	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4		_	1	8
	Totals for compulsory modules in the third/fourth quarter		15/1	15 4	/4	34/34
Ele etime e	Any modules in the Esculty of Netural and Assignitural Calanaca of			م ندمدا،		م ملد ملدند
	Any modules in the Faculty of Natural and Agricultural Sciences at department.	ter c	OHSU	ıııaııu	III V	nui uie
ileaus oi	иерантет.					
	Compulsory credits = (120) Elective credits = (24)					
	Compaisory credits = (120) Elective credits = (24)					
Third yea	ar, first semester:					
Code	Name	Qrt	lpw	ppv	v	Crdt
	SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS]	S1	2	1		14
	SOIL_PHYSICS_351 Prerequisite/s: [GKD250]	S1	1	0.5	5	10
	SOIL_CHEMISTRY_370 Prerequisite/s: [GKD250]	S1	2	1		14
	SOIL_MINERAL&_SOIL_GENES.450 Prerequisite/s: [GKD250]	S1	2	1		14
	Totals for compulsory modules in the first/second quarter		7/7	3.5/3	3.5	26/26
Third vea	ar, second semester:					
Code	Name		Qrt	lpw	ppv	v Crdt
	Totals for compulsory modules in the third/fourth quarter		_		0/0	_
	/ / / / / / / / / / / / / /-					
Electives	Any modules in the Faculty of Natural and Agricultural Sciences af	ter c	onsu	Itatio	n w	ith the
	department.				-	
	•					
	Compulsory credits = (52) Elective credits = (92)					
	· · · · · · · · · · · · · · · · · · ·					
A minimu	um of (440) credits is required to obtain the degree.					

Field of study	Dept	Code
BSc Veterinary Biology	GTS	03134003

			_		_	
	c: Veterinary Biology: Candidates must register for a BSc: Biolog					
_	or a degree consisting of the same modules prescribed for the B	Sc:	Vet	erinary	Biolo	gy.
	r, first semester:					
Code	Name		Qrt	Lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]		S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16
	Totals for compulsory modules in the first/second quarter			20/20	4/4	38/38
First year	r, second semester:					
Code	Name		Qrt	Lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] a	nd	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%	ó				
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]					
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	_	S2	2	0.5	8
_	COMPUTER_&_INFORM.LITERACY_173	_	K3	2	0	3
	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or		S2	4	1	16
	CMY101]	_				
	LANGUAGE_PROFICIENCY(3)_153	_	K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	or	S2	2	0.5	8
MDV4.04	[TDH]	71	00	_	٥.	0
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11	/]	S2	2	0.5	8
ZEN161	and [MLB111] ANIMAL DIVERSITY 161	-	K3	4	1	8
ZENTOT	Totals for compulsory modules in the third/fourth quarter		No	22/18	5/4	42/34
	Totals for compulsory modules in the third/twith quarter			22/10	3/4	42/34
	O	٥١				
	Compulsory credits = (152) Elective credits = (U)				
Cocond v	vany first samester:					
	vear, first semester: Name	0.4	l n	T .		Cadt
Code		Qrt	-		pw	Crdt
BCIVI251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	4	2 (0.5	12
DCM252	GS] and [CMY127 GS] and [MLB111 GS]	C1	2	, ,) E	12
DCIVI252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S1	4	· '	0.5	12
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1	2) ,	0.5	12
313231	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS161 GS] or [TDH]	ادا	_	· '	J.5	12
MRY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1	1	,	1	12
IVID I ZJ I	[MBY161 GS]	"	1	-	'	12
VDG250	NUTRITION_250 Prerequisite/s: [CMY127]	S1	-	3 (0.5	12
123230	1.15	J .	_ `		.	14

VKU210	ANIMAL_SCIENCE_210	S1	1	1	0.5	6			
	Totals for compulsory modules in the first/second quarter	-	12	/12 3	3.5/3.	33/33			
	•					•			
Electives can be chosen from BOT251 or ZEN251 or DAF250									
Second y	rear, second semester:								
Code	Name	(Qrt	lpw	ppv	v Crdt			
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117		S2	2	0.5	12			
	GS] and [CMY127 GS] and [MLB111 GS]								
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117	;	S2	2	0.5	12			
	GS] and [CMY127 GS] and [MLB111 GS]								
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 G	S]	S2	2	0.5	12			
	or [TDH]								
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY1	_	S2	2	1	12			
	ANIMAL_SCIENCE_220 Prerequisite/s: [VKU210]	_	S2	2	0.5	_			
VKU222	ANIMAL_SCIENCE_222	;	S2	2	0	6			
	Totals for compulsory modules in the third/fourth quarter			12/1:	2 3/3	33/33			
Λ 4:	und selection process for the degree BSc:Veterinary Biology will	lale-	l-		Ale c	مما مد دا			
Sciences BSc(Agri	of different degree options including a three year BSc degree will Botany, Biotechnology, Entomology, Genetics, Microbiology, 20) in Animal Science. However, it may be necessary to register the modules.	Zoolo	ogy,	, or a	altern	atively a			
prescribe	d modules.								
	Compulsory credits = (132) Elective credits = (24)							
	Compaisory creates = (132) Elective creates = (24)							
Third vea	ar, first semester:								
Code	Name	Qrt	lp	ow	ppw	Crdt			
	ANIMAL_HANDLING_300 Prerequisite/s: [Only students	J1	+-	1	1	6			
	selected for BSc(Veterinary Biology)III]								
BCM355	IMMUNOBIOLOGY_355 Prerequisite/s: [BCM251] and	S1		1	0.5	9			
	[BCM252] and [BCM261] and [BCM262]								
MBY354	STRUCT.&_DIVERS.OF_VIRUSES_354 Prerequisite/s:	S1		2	1	9			
	[BCM251] and [CMY127] and [MBY161]								
VAP300	VETERINARY_ANATOMY_AND_PHYSIOLOGY_300	J1	1	10	2	36			
	Prerequisite/s: [Only students selected for BSc(Veterinary								
WDESEO	Biology)III] PRINCIPLES_OF_VELD_MANAGM250	S1		2	0.5	12			
WDE250	Totals for compulsory modules in the first/second quarter	31	-	_		4.5/34.5			
Third you	ar, second semester:		10	710	3/3	14.5/34.			
Code	Name	1	Qrt	lpw	ppv	v Crdt			
	ANIMAL_HANDLING_300 Prerequisite/s: [Only students selected	_	عاد J1	1pw	1	6			
AI 10300	for BSc(Veterinary Biology)III]	1			Ι'	0			
GTS364	GENETICS_364	1:	S2	2	1	9			
	LIVESTOCK_BREEDING_320 Prerequisite/s: [GTS261]		S2	2	0.5				
VAP300	VETERINARY_ANATOMY_AND_PHYSIOLOGY_300 Prerequisit		J1	10	2	36			
	[Only students selected for BSc(Veterinary Biology)III]				1 -	1			
	[Only students selected for BSC(vetermary Biology)[11]								

VKU362 ANIMAL_SCIBIOTECHNOLOGY_362 Prerequisite/s: [GTS226]	S2	1	0.5	8
Totals for compulsory modules in the third/fourth quarter		18/18	5/5	37/37

A final selection of candidates who will be admitted to the BVSc programme will be made at the end of the third year, based on academic merit, an interview and according to available capacity. Students not selected at the end of the third year of study or who do not wish to continue with the BVSc degree, will be able to apply for admission to continue with an honours degree in Anatomy, Physiology or an honours degree in one of the Biological or Agricultural Sciences programmes after completion of a number of specified additional third-year modules in that discipline.

Compulsory credits = (153) Elective credits = (0)

A minimum of (461) credits is required to obtain the degree.

Field of study	Dept	Code
BSc Zoology	ZEN	03133021

First year	, first semester:						
Code	Name	Qrt	wal	ppw	Crdt		
CIL171	COMPUTER & INFORM.LITERACY 171	K1	2	0	3		
	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3		
	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16		
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3		
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3		
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16		
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16		
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16		
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38		
First year	, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16		
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%						
	(SG) Grade 12 Mathematics or an equivalent Mathematics						
	achievement.]				1		
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3		
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16		
	CMY101]				1		
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3		
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3		
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8		
	[TDH]				1		
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8		
	and [MLB111]				1		
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8		
	Totals for compulsory modules in the third/fourth quarter 22/18 5/4 42/						
	Compulsory credits = (152) Elective credits = (0)						

Second y	vear, first semester:					
Code	Name	Qrt	lpw	р	pw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	C	.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	C	.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or	S1	2		1	12
	[TDH]					
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s:	S1	2	0	.5	12
	[GTS161 GS] or [TDH]					
MBY251	GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1	2		1	12
7511054	[MBY161 GS]	124	_		_	40
ZEN251	INVERTEBRATE_BIOLOGY_251	K1	4	-	1	12
	Totals for compulsory modules in the first/second quarter		14/10	4.5	/3.5	42/30
	rear, second semester:	٠.		_		- ·
Code	Name	Qrt	lpw	+-	pw	Crdt
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	2		1	12
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4	\mathbf{t}	1	8
	ENVIRONMENTAL_GEOLOGY_162 Prerequisite/s: [Par 1.2]	K4	4	_	1	8
	GENETIC ANAL. & MANIPULA. 261 Prerequisite/s: [GTS161	S2	2	-	.5	12
	GS] or [TDH]		_			
MBY261	GROWTH ACT.& CONTROL/FUNGI 261 Prerequisite/s:	S2	2		1	12
	[MBY161]					
ZEN261	AFRICAN_VERTEBRATES_261	K3	4		1	12
	Totals for compulsory modules in the third/fourth quarter		14/10	4.5	/3.5	38/26
	Compulsory credits = (136) Elective credits = (8)				
Third yea	ar, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
ZEN351	POPULATION_ECOLOGY_351		K1	4	2	18
ZEN352	MAMMALOGY_352		K1	4	2	18
ZEN353	COMMUNITY_ECOLOGY_353		K2	4	2	18
ZEN354	PHYSIOLOGY_354		K2	4	2	18
	Totals for compulsory modules in the first/second quarter			8/8	4/4	36/36
Third year	r, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
ZEN361	ECO-PHYSIOLOGY_361		K3	4	2	18
ZEN362	EVOLUTION_AND_PHYLOGENY_362		K3	4	2	18
ZEN363	BEHAVIORAL_ECOLOGY_363		K4	4	2	18
ZEN364	CONSERVATION_ECOLOGY_364		K4	4	2	18
	Totals for compulsory modules in the third/fourth quarter			8/8	4/4	36/36
	Commulative (AA) Floridge 22	O)				
	Compulsory credits = (144) Elective credits = (U)				
A minim	um of (440) credits is required to obtain the degree.					
A IIIIIIIMU	uni or (440) credits is required to obtain the degree.					

Field of study	Dept	Code
BSc(Agric) Agricultural	LEK	03130050
Economics/Agribusiness management		

First year, first semester:								
Code	Code Name		rt	lpw	ppw	Crdt		
CIL171	COMPUTER_&_INFORM.LITERACY_171	K	1	2	0	3		
CIL172	COMPUTER_&_INFORM.LITERACY_172		2	2	0	3		
CMY117	7 GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]		1	4	1	16		
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K	1	2	0	3		
EOT152	152 LANGUAGE_PROFICIENCY(2)_152		2	2	0	3		
FRK151	FINANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]	K	1	4	0	5		
FRK152	52 FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] and		2	4	0	5		
	[Par.1.2]							
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S	1	4	1	16		
WTW134	WTW134 MATHEMATICS_134 Prerequisite/s: [Par 1.2]		1	4	1	16		
Totals for compulsory modules in the first/second quarter				20/20	3/3	35/35		
First year, second semester:								
Code	Name	Q	rt	lpw	ppw	Crdt		
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S	2	2	0.5	8		
CIL173	3 COMPUTER_&_INFORM.LITERACY_173		3	2	0	3		
CIL174	COMPUTER_&_INFORM.LITERACY_174		4	2	0	3		
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S	2	4	1	16		
	CMY101]							
	3 LANGUAGE_PROFICIENCY(3)_153		3	2	0	3		
EOT154	54 LANGUAGE_PROFICIENCY(4)_154		4	2	0	3		
FRK121	21 FINANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS] and [FRK152 GS]		2	4	0	12		
GTS161	INTRODUCTORY GENETICS 161 Prerequisite/s: [MLB111 GS]	or S	2	2	0.5	8		
	[TDH]					,		
LIR421	IR421 AGRICULTURAL_ENGINEERING_421		2	3	2	8		
WTW144	WTW144 MATHEMATICS_144		2	4	1	16		
Totals for compulsory modules in the third/fourth quarter				23/23	5/5	40/40		
	Compulsory credits = (150) Elective credits = (2)						
Second y	rear, first semester:							
Code	Name Q	t lpv	٧	ppw	'	Crdt		
	ECONOMICS_110 S ²	1 3		0		10		
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: S ²	1 3		1		12		
	[CMY117 GS] or [TDH]							
	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or S'BLG150]	1 2		0.5		12		
	INTRTO_FARM_MANAGEMENT_251 K	1 3		0		6		
	INTR.TO AGRIC. PROD. ECON. 252 Prerequisite/s: K2			0	_	6		
	[LEK251]					-		
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: S	1 2		0.5		12		
	[BOT161 or BLG150]							

STK110	STATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	Т	1	T	13	
	ANIMAL SCIENCE 210	S1	1	+	0.5	+	6	
52.10	Totals for compulsory modules in the first/second quarter		17/1	7 :		5 38	3.5/38.5	
Second year, second semester:								
Code	Name	Qr	t Ir	w	ppv	v	Crdt	
	ECONOMICS_120 Prerequisite/s: [EKN110 GS]	S2		3	0	╁	10	
	TREE GROWTH & DEVELOPMENT 261 Prerequisite/s:	K3	_	2	0.5	钳	6	
1100201	[GKD250] and [GKD260 #] and [HSC252]	110		_	0.0		Ü	
LEK220	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251]	S2	:	3	0	1	12	
	and [LEK252 or EKN113 and/or EKN120]							
LKM262	AGRICULTURAL_CLIMATOLOGY_262	S2	:	2	0.5	5	12	
OBS120	BUSINESS_MANAGEMENT_120	S2	:	3	0		10	
STK120	STATISTICS_120 Prerequisite/s: [STK110 GS]	S2	:	3	1		13	
VKU220	ANIMAL_SCIENCE_220 Prerequisite/s: [VKU210]	S2	:	2	0.5	5	12	
	Totals for compulsory modules in the third/fourth quarter		18	/16	2.5	2 40).5/34.5	
	Compulsory credits = (152) Elective credits	= (0)	•			•		
Third yea	ar, first semester:							
Code	Name		Qrt		pw	ppw	Crdt	
ABR351	LABOUR_LAW_351		K1		3	0	10	
BER210	BUSINESS_LAW_210		S1		3	0	16	
EKN251	ECONOMICS_251		K1		3	0	8	
EKN252	ECONOMICS_252		K2		3	0	8	
FST250	INTRO/FOOD_SCIENCE_&_TECH250 Prerequisite/s: [CMY	117]	S1	T	2	1	12	
	and [CMY127] and [MBY161] and [PHY131] and [WTW134] or	•						
	[TDH]							
LEK310	AGRICULTURAL_ECONOMICS_310 Prerequisite/s: [LEK251	or	S1		3	0	12	
	EKN110] and [LEK252 or EKN120]							
STK210	STATISTICS_210 Prerequisite/s: [STK110] and [STK120]		S1	L	3	1	20	
	Totals for compulsory modules in the first/second quarter			17	7/14	2/2	48/38	
Third yea	ar, second semester:							
Code	Name		Qrt	-	pw	ppw	Crdt	
	COMMUNICATION_421		S2		2	0	20	
	ECONOMICS_220		S2	-	3	0	16	
	AGRICULTURAL_ECONOMICS_320		S2	-	3	2	18	
STK281	STATISTICS_281 Prerequisite/s: [STK110] and [STK120]		S2	-	3	1	10	
	Totals for compulsory modules in the third/fourth quarter			11	1/11	3/3	32/32	
	Compulsory credits = (150) Elective credits	= (29))					
_	-							
	ear, first semester:		-	_			1	
Code	Name		_	Qrt	_	ppw	_	
	ECONOMICS_310		_	S1	3	0	20	
LEK451	AGRI.DEMAND_&_SUPP.ANALYSIS451 Prerequisite/s: [LEK2	252] a	nd	K1	3	2	12	
1 EK 450	[LEK261] and [LEK262] and [STK281]	21 '	\dashv	1/0		_	40	
LEK452	COMMODITY_PRICE_ANALYSIS_452 Prerequisite/s: [LEK252	∠j and	'	K2	3	2	12	
	[LEK261] and [LEK262] and [STK281] Totals for compulsory modules in the first/second quarter				6/6	2/2	22/22	
1	rotals for compulsory modules in the instructional quarter				0/0	41 4	22/22	
F								
rourth y	ear, second semester:							

Code	Name	Qrt	lpw	ppw	Crdt				
LEK421	AGRICULTURAL_ECONOMICS_421 Prerequisite/s: [LEK451] and [STK210]	S2	3	2	24				
LEK424	RESOURCE_ECONOMICS_424 Prerequisite/s: [LEK251] and [LEK252]	K4	3	0	10				
	AGRIC.FINANC.MANA.&_MARKET_463 Prerequisite/s: [LEK251] and [LEK252]	K3	3	0	10				
	Totals for compulsory modules in the third/fourth quarter		6/6	2/2	22/22				
	modules can be chosen from the following: ARD400, STK310, HSC350,	WD	E350), HS(C450,				
PLG251,	EKN320, and any modules from Animal and Wildlife Sciences.								
	Compulsory credits = (88) Elective credits = (56)								
	Comparatory creates = (00) Elective creates = (00)								
A minim	A minimum of (627) credits is required to obtain the degree.								

Field of study	Dept	Code
BSc(Agric) Animal Science	VKU	03130140

First year	, first semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3	
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16	
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3	
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16	
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16	
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16	
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38	
First year	, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16	
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%					
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3	
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16	
	CMY101]					
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3	
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8	
	[TDH]					
	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8	
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8	
	Totals for compulsory modules in the third/fourth quarter 22/18 5/4 42/34					

	Compulsory credits = (152) Elective credits = (0)				
Second y	rear, first semester:					
Code	Name	(Qrt	lpw	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	T	S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252	CARBOHYDRATE METABOLISM 252 Prerequisite/s: [CMY117	T	S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
DAF250	ANIMAL_ANAT&_PHYSIOLOGY_250 Prerequisite/s: [CMY127]	T	S1	4	1	18
	and [TDH]					
GKD250	INTRODUCTORY SOIL SCIENCE 250 Prerequisite/s: [CMY117	,	S1	3	1	12
	GS] or [TDH]					
GTS251	GENE & CHROMOSOME ORGANIZ. 251 Prerequisite/s: [GTS1	61	S1	2	0.5	12
	GS] or [TDH]					
LEK251	INTRTO_FARM_MANAGEMENT_251		K1	3	0	6
	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT167	1	S1	2	0.5	12
	or BLG150]					
VDG250	NUTRITION_250 Prerequisite/s: [CMY127]	寸	S1	3	0.5	12
	ANIMAL SCIENCE 210	T	S1	1	0.5	6
	Totals for compulsory modules in the first/second quarter			22/1		54/48
Second v	rear, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	_	S2	2	0.5	12
DOWIZOT	GS] and [CMY127 GS] and [MLB111 GS]		02	_	0.5	12
BCM262			S2	2	0.5	12
DOIVIZOZ	GS] and [CMY127 GS] and [MLB111 GS]		02	_	0.5	12
DAF260	ANIMAL_ANAT&_PHYSIOLOGY_260 Prerequisite/s: [DAF250]	1	S2	4	1	18
	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 G	_	S2	2	0.5	12
0.020.	or [TDH]	١,	-	_	0.0	
LBU260	AGROCLIMATOLOGY 260	T.	S2	3	1	12
	ANIMAL_SCIENCE_220 Prerequisite/s: [VKU210]	_	S2	2	0.5	12
***************************************	Totals for compulsory modules in the third/fourth quarter			15/1	_	39/39
	Totalo for compalocry modules in the ama/locatin quarter			10/1	0 1, 1	00/00
	Compulsory credits = (180) Elective credits = (٥١				
	Compaisory creates = (100) Elective creates = (1	<u> </u>				
Third yes	ır, first semester:					
Code	Name	Qrt	In	w	ppw	Crdt
		S1	_	4	ppw 1	24
	BIOMETRY_210 Prerequisite/s: [BME120]	S1	_	1	0.5	8
DANSTO	ANIMAL_ANATOMY_310 Prerequisite/s: [DAF250] and [DAF260]	51			0.5	8
DFS311		S1	Η.	2	0	10
DESSTI	[DAF260]	31	1 1	_	U	10
DDI 210	REPRODUCTION_SCIENCE_310 Prerequisite/s: [DAF250] and	S1	Η.	1	0.5	8
KFL310	[DAF260]	31		'	0.5	O
VGE301	NUTRITIONAL SCIENCE 301 Prerequisite/s: [BCM261] and	J1	١.	3	0.5	16
VGESUI	[BCM262] and [DAF250] and [DAF260] and [VDG250] and	JI	1	3	0.5	10
	[VKU220]					
WDF250	PRINCIPLES_OF_VELD_MANAGM250	S1	Η.	2	0.5	12
	PLANTED_PASTURES_350 Prerequisite/s: [WDE271 or	S1	_	2	0.5	14
**DE330	WDE251] and [WDE272 or WDE252]	51	1 1	_	0.5	1-7
	WELLO I AND [WELLIZ OF WELLOZ]					

	Totals for compulsory modules in the first/second quarter		15/	/15 3	3.5/3.5	46/46
Third vea	Third year, second semester:					
Code	Name	Qrt	In	w	ppw	Crdt
	GROWTH_PHYSIOLOGY_320 Prerequisite/s: [DAN310] and	S2	-	2	0.5	10
	[DFS311]	02	<i>'</i>		0.0	10
RPL320	REPRODUCTION_SCIENCE_320 Prerequisite/s: [RPL310]	S2	- 1	2	0.5	10
TLR320	LIVESTOCK_BREEDING_320 Prerequisite/s: [GTS261]	S2		2	0.5	10
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and [VKU220]	J1	;	3	0.5	16
VKU361	ANIMAL_ECOLOGY_361 Prerequisite/s: [VKU210] and [VKU220]	S2		2	0	8
	ANIMAL_SCIBIOTECHNOLOGY_362 Prerequisite/s: [GTS226]	S2	١.	1	0.5	8
	Totals for compulsory modules in the third/fourth quarter		12	/12 2	2.5/2.5	31/31
	Compulsory credits = (154) Elective credits = (0)				
Fourth v	ear, first semester:					
Code	Name	Qrt	lр	w	ppw	Crdt
	LIVESTOCK BREEDING 411 Prerequisite/s: [TLR320]	S1	10		0.5	12
	NUTRITION_SCIENCE_411 Prerequisite/s: [VGE301]	S1	-	-+	0.0	18
VKD410	PIG_SCIENCE_410 Prerequisite/s: [LEK210] and [VGE301] and	S1	-		0.5	8
	[VKU220] and [VNE361]	5			0.5	0
VKF411	ANIMAL_SCI.PHARMACOLOGY_411 Prerequisite/s: [DFS320] and [VGE301]	S1	3	3	0	12
VKU411	SEMINAR_411 Prerequisite/s: [TDH]	S1	S1 1		0	8
VKU412	RESEARCH_METHODOLOGY_412 Prerequisite/s: [TDH]	S1	1	1	0	8
WLK410	WOOL_SCIENCE_410 Prerequisite/s: [TLR320] and [VGE301]	S1	1		0.5	8
	Totals for compulsory modules in the first/second quarter		13/	/13 1	.5/1.5	37/37
Fourth ye	ear, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
GVK420	LARGE_STOCK_SCIENCE_420 Prerequisite/s: [LEK210] and [RPL320] and [VGE301] and [VKU210] and [VNE361]		S2	2	0	12
KVK420	SMALL_STOCK_SCIENCE_420 Prerequisite/s: [LEK210] and [RPL320] and [VGE301] and [VKU220] and [VNE361]		S2	2	0	12
PVK420	POULTRY_SCIENCE_420 Prerequisite/s: [LEK210] and [VGE301 and [VKU220]]	S2	2	0.5	12
TLR420	LIVE_STOCK_BREEDING_420 Prerequisite/s: [TLR411]		S2	2	0.5	12
	NUTRITIONAL_SCIENCE_421 Prerequisite/s: [VGE301]		S2	3	0	16
	NUTRITION_SCIENCE_423 Prerequisite/s: [VGE301]	-+	S2	3	0	16
	MEAT_AND_DAIRY_SCIENCE_420 Prerequisite/s: [DFS320]		S2	2	0	10
	0 WILDLIFE_SCIENCE_420 Prerequisite/s: [VGE301] and [VKU361] S2		S2	2	0	10
or [TDH] Totals for compulsory modules in the third/fourth quarter 18/18 1/1 5					50/50	
	Compulsory credits = (169) Elective credits = (0)				
A minimu	um of (655) credits is required to obtain the degree.					

Field of study	Dept	Code

0.5

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S1

S1

S1

12

12

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6

	BSc(Agric) Animal Science/Animal Genetics	VKU	031	30251		
First year	r, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par	1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111		S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2	2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]		S1	4	1	16
	Totals for compulsory modules in the first/second	nd quarter		20/20	4/4	38/38
First year	r, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and	[STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40	0% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Math	nematics				
	achievement.]					
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 G	iS] or [TDH]	S2	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173		K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CM]	Y117 GS or	S2	4	1	16
	CMY101]					
	_		K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s:	: [MLB111 GS] or	S2	2	0.5	8
	[TDH]					
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequi	isite/s: [CMY117]	S2	2	0.5	8
	and [MLB111]					
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1	8
	Totals for compulsory modules in the third/four	th quarter		22/18	5/4	42/34
	Compulsory credits = (152) Elect	tive credits = (0)				
	ear, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisi	ite/s: [CMY117	S1	2	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
BCM252		te/s: [CMY117	S1	2	0.5	12
DAF:	GS] and [CMY127 GS] and [MLB111 GS]	/	<u> </u>		<u> </u>	
DAF250		ite/s: [CMY127] o	S1	4	1	18
	[TDH]		1			

GTS251 GENE_&_CHROMOSOME_ORGANIZ._251 Prerequisite/s: [GTS161 S1

PPK251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161

GS] or [TDH]

VKU210 ANIMAL_SCIENCE_210

VDG250 NUTRITION_250 Prerequisite/s: [CMY127]

or BLG150]

	Totals for compulsory modules in the first/second quarter			16/1	6 4/4	42/42
_	year, second semester:				_	
Code	Name		Qrt	lpw	ppw	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]		S2	2	0.5	12
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]		S2	2	0.5	12
DAF260	ANIMAL_ANAT&_PHYSIOLOGY_260 Prerequisite/s: [DAF250]		S2	4	1	18
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 G or [TDH]	S]	S2	2	0.5	12
LBU260	AGROCLIMATOLOGY_260		S2	3	1	12
VKU220	ANIMAL_SCIENCE_220 Prerequisite/s: [VKU210]		S2	2	0.5	12
	Totals for compulsory modules in the third/fourth quarter			15/1	5 4/4	39/39
	Oursels are and the (400) Election and the	٥١				
	Compulsory credits = (162) Elective credits = (U)				
Third yea	ar, first semester:					
Code	Name	Qrt	Ιp	w	ppw	Crdt
BME210	BIOMETRY_210 Prerequisite/s: [BME120]	S1		4	1	24
DAN310	ANIMAL_ANATOMY_310 Prerequisite/s: [DAF250] and [DAF260]	S1		1	0.5	8
DFS311	ANIMAL_PHYSIOLOGY_311 Prerequisite/s: [DAF250] and [DAF260]	S1		2	0	10
GTS352	GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or [TDH]	S1		2	1	18
RPL310	REPRODUCTION_SCIENCE_310 Prerequisite/s: [DAF250] and [DAF260]	S1		1	0.5	8
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and [VKU220]	J1	;	3	0.5	16
	Totals for compulsory modules in the first/second quarter		13	/13 3	3.5/3.5	42/42
Third yea	ar, second semester:					
Code	Name	Qrt	lp	OW	ppw	Crdt
DFS320	GROWTH_PHYSIOLOGY_320 Prerequisite/s: [DAN310] and [DFS311]	S2		2	0.5	10
GTS361	HUMAN_GENETICS_361 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or [TDH]	S2		2	1	18
RPL320	REPRODUCTION_SCIENCE_320 Prerequisite/s: [RPL310]	S2		2	0.5	10
	LIVESTOCK_BREEDING_320 Prerequisite/s: [GTS261]	S2		2	0.5	10
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and [VKU220]	J1		3	0.5	16
VKU361	ANIMAL_ECOLOGY_361 Prerequisite/s: [VKU210] and [VKU220]	S2		2	0	8
VKU362	ANIMAL_SCIBIOTECHNOLOGY_362 Prerequisite/s: [GTS226]	S2		1	0.5	8
	Totals for compulsory modules in the third/fourth quarter		14	1/14	3.5/3.5	40/40
	Compulsory credits = (164) Elective credits = (0)				
	ear, first semester:				_	
Code	Name		Qrt	lpw	ppw	Crdt

CTCCE	ADV. DODUL ATION CENETICS 252 Proventicite/o. [CTS254 C6	>1 T	C4	2	1	40		
	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 GS and [GTS261 GS] or [TDH]))	S1		'	18		
		K1	3	0	6			
	INTRTO_FARM_MANAGEMENT_251			_		_		
	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]		K2	3		6		
	LIVESTOCK_BREEDING_411 Prerequisite/s: [TLR320]	_	S1	2		12		
	PIG_SCIENCE_410 Prerequisite/s: [LEK210] and [VGE301] and		S1	1	0.5	8		
	[VKU220] and [VNE361]							
	ANIMAL_SCI.PHARMACOLOGY_411 Prerequisite/s: [DFS320] ar	nd	S1	3	0	12		
	[VGE301]							
VKU411	SEMINAR_411 Prerequisite/s: [TDH]		S1	1	0	8		
VKU412	RESEARCH_METHODOLOGY_412 Prerequisite/s: [TDH]		S1	1	0	8		
	Totals for compulsory modules in the first/second quarter			13/	13 2/2	39/39		
Fourth ye	ear, second semester:							
Code	Name	Qrt	1	pw	ppw	Crdt		
GTS363	EVOLUTIO&_PHYLO-GENETICS_363 Prerequisite/s: [GTS353	S2		2	1	18		
	GS] or [TDH]					1		
GVK420	LARGE_STOCK_SCIENCE_420 Prerequisite/s: [LEK210] and	S2		2	0	12		
	[RPL320] and [VGE301] and [VKU210] and [VNE361]					1		
KVK420	SMALL_STOCK_SCIENCE_420 Prerequisite/s: [LEK210] and	S2		2	0	12		
	[RPL320] and [VGE301] and [VKU220] and [VNE361]					1		
LEK320	AGRICULTURAL_ECONOMICS_320	S2		3	2	18		
PVK420	POULTRY_SCIENCE_420 Prerequisite/s: [LEK210] and	S2		2	0.5	12		
	[VGE301] and [VKU220]					1		
TLR420	LIVE_STOCK_BREEDING_420 Prerequisite/s: [TLR411]	S2		2	0.5	12		
WKE420	WILDLIFE_SCIENCE_420 Prerequisite/s: [VGE301] and	S2		2	0	10		
	[VKU361] or [TDH]					İ		
	Totals for compulsory modules in the third/fourth quarter 17/17 4.5/4.5 53/53							
	Compulsory credits = (170) Elective credits = (0)							
	Comparisory Greates - (110) Elective Greates = (0)							
A minimu	minimum of (648) credits is required to obtain the degree.							

Field of study	Dept	Code
BSc(Agric) Animal Science/Pasture Science	VKU	03130250

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				

	(SG) Grade 12 Mathematics or an equivalent Mathematics				1			
	achievement.]							
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	+	S2	2	0.5	8		
	COMPUTER & INFORM.LITERACY 173	+	K3	2	0.5	3		
	COMPUTER & INFORM.LITERACY 174	-	K4	2	0	3		
	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	-	S2	4	1	16		
OMIT IZ	CMY101]		02		1 '	10		
EOT153	LANGUAGE_PROFICIENCY(3)_153	┪	K3	2	0	3		
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3		
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS]	or	S2	2	0.5	8		
	[TDH]							
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117	7]	S2	2	0.5	8		
	and [MLB111]							
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1	8		
	Totals for compulsory modules in the third/fourth quarter			22/1	8 5/4	42/34		
	Compulsory credits = (152) Elective credits = ())						
Second y	/ear, first semester:							
Code	Name	Qrt	+-	w	ppw	Crdt		
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117	S1	2	2	0.5	12		
	GS] and [CMY127 GS] and [MLB111 GS]		<u> </u>	_				
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2	2	0.5	12		
DOTO54	GS] and [CMY127 GS] and [MLB111 GS]	04	₩,	_	_	40		
BOT251	SA_FLORA_&_VEGETATION_251 Prerequisite/s: [BOT161] or ITDH]	S1	4	2	1	12		
DAESEO	ANIMAL_ANAT&_PHYSIOLOGY_250 Prerequisite/s:	S1	Η.	4	1	18		
DAF250	[CMY127] or [TDH]	31	-	*	'	10		
PPK251	SUSTAINABLE PRODUCTION SYS.251 Prerequisite/s:	S1	١.	2	0.5	12		
1111201	[BOT161 or BLG150]	٠.	1	-	0.0			
VDG250	NUTRITION_250 Prerequisite/s: [CMY127]	S1	3		3		0.5	12
	ANIMAL_SCIENCE_210	S1	_		0.5	6		
	Totals for compulsory modules in the first/second guarter		16	/16	4.5/4.5	42/42		
Second v	/ear, second semester:			•				
Code	Name		Qrt	lpw	ppw	Crdt		
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	T	S2	2	0.5	12		
	GS] and [CMY127 GS] and [MLB111 GS]							
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117		S2	2	0.5	12		
	GS] and [CMY127 GS] and [MLB111 GS]							
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] ar	nd	S2	2	1	12		
	[CMY117] and [CMY127] or [TDH]		S2					
	DAF260 ANIMAL_ANAT&_PHYSIOLOGY_260 Prerequisite/s: [DAF250]			4	1	18		
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161 G	3]	S2	2	0.5	12		
I DI Ioos	or [TDH]	4	000	_	<u> </u>			
	AGROCLIMATOLOGY_260	4	S2	3	1	12		
VKU220			S2	2	0.5	12		
	Totals for compulsory modules in the third/fourth quarter			17/1	7 5/5	45/45		
	Compulsory credits = (174) Elective credits = ())						
	ar, first semester:	_	٠.					
Code	Name	Qrt	. Ip	w	ppw	Crdt		

DAN310	ANIMAL_ANATOMY_310 Prerequisite/s: [DAF250] and	S1	1		0	.5	8		
	[DAF260]								
DFS311	ANIMAL_PHYSIOLOGY_311 Prerequisite/s: [DAF250] and [DAF260]	S1	2	2		0	10		
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	S1	3	3		1	12		
	[CMY117 GS] or [TDH]								
LEK251	INTRTO_FARM_MANAGEMENT_251	K1	3	3	-	0	6		
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3	3	-	0	6		
RPL310	REPRODUCTION_SCIENCE_310 Prerequisite/s: [DAF250] and [DAF260]	S1	1		0	.5	8		
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and	J1	3	3	0	.5	16		
WDESEO	[VKU220] PRINCIPLES OF VELD MANAGM. 250	S1	2	,	_	.5	12		
	PLANTED_PASTURES_350 Prerequisite/s: [WDE271 or	S1	2	_	-	.5 .5	14		
WDE350	WDE251] and [WDE272 or WDE252]	51	4	<u> </u>	U	.5	14		
	Totals for compulsory modules in the first/second quarter		17/	17	3 5	/3.5	46/46		
Third yes	ar, second semester:		177	17	5.5	/3.5	40/40		
Code	Name	- 1	Qrt	lny	. 1	nnw	Crdt		
	GROWTH PHYSIOLOGY 320 Prerequisite/s: [DAN310] and		S2	lpv 2	-	ppw 0.5	10		
	[DFS311]								
	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 G	_	S2	3	_	1	12		
	REPRODUCTION_SCIENCE_320 Prerequisite/s: [RPL310]	_	S2 S2			0.5	10		
					_	0.5	10		
VGE301	NUTRITIONAL_SCIENCE_301 Prerequisite/s: [BCM261] and [BCM262] and [DAF250] and [DAF260] and [VDG250] and		J1	3		0.5	16		
	[VKU220]								
	Totals for compulsory modules in the third/fourth quarter			12/	12	3/3	29/29		
	Compulsory credits = (150) Elective credits = (0)							
	Compaisory credits = (130) Elective credits = (υ,							
Fourth ve	ear, first semester:								
Code	Name	П	Qrt	lp	ω/	ppw	Crdt		
	BIOMETRY_210 Prerequisite/s: [BME120]		S1	.p	_	1	24		
	SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 G	SI	S1	2		1	14		
	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]	<u> </u>	S1	3	_	1	14		
	NUTRITION_SCIENCE_411 Prerequisite/s: [VGE301]	1	S1	4	_	0	18		
	SEMINAR_411 Prerequisite/s: [TDH]	1	S1	1	_	0	8		
	RESEARCH_METHODOLOGY_412 Prerequisite/s: [TDH]		S1	1	_	0	8		
WDE450		-	S1	3	_	0	14		
WBE 100	Totals for compulsory modules in the first/second quarter		<u> </u>	18/	_	3/3	50/50		
	Totals for compulsory modules in the mayaccond quarter			10/	10	0/0	30/30		
Fourth ve	ear, second semester:								
Code	Name	Qrt	lр	w	р	ow	Crdt		
	CROP_PHYSIOLOGY_461 Prerequisite/s: [GKD250] and [GKD260] and [HSC252] and [HSC261] and [PGW352]	S2	-	_		.5	14		
G/K420	LARGE STOCK SCIENCE 420 Prerequisite/s: [LEK210] and	S2	-	,	-	0	12		
	[RPL320] and [VGE301] and [VKU210] and [VNE361]		2		: 2				
KVK420	SMALL_STOCK_SCIENCE_420 Prerequisite/s: [LEK210] and	S2	2	2		0	12		
	[RPL320] and [VGE301] and [VKU220] and [VNE361]								

LIR421	AGRICULTURAL_ENGINEERING_421	S2	3	2	8					
VGE421	NUTRITIONAL_SCIENCE_421 Prerequisite/s: [VGE301]	S2	3	0	16					
VGE423	NUTRITION_SCIENCE_423 Prerequisite/s: [VGE301]	S2	3	0	16					
VSX420	MEAT_AND_DAIRY_SCIENCE_420 Prerequisite/s: [DFS320]	S2	2	0	10					
WKE420	WILDLIFE_SCIENCE_420 Prerequisite/s: [VGE301] and	S2	2	0	10					
	[VKU361] or [TDH]									
	Totals for compulsory modules in the third/fourth quarter		19/19	2.5/2.5	49/49					
	Compulsory credits = (198) Elective credits = (0)									
A minimu	A minimum of (674) credits is required to obtain the degree.									

Field of study	Dept	Code
BSc(Agric) Food Science and Technology	VDW	03130370

First year	r, first semester:				
Code	Name	Qrt	Lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				
	achievement.]				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] and [MLB111]	S2	2	0.5	8
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)				
Second y	ear, first semester:				

Code	Name	Qrt	Ιpν	N	ppw	Т	Crdt
BCM251	INTRO. TO PROT. & ENZYMES 251 Prerequisite/s: [CMY117	S1	2		0.5	†	12
	GS] and [CMY127 GS] and [MLB111 GS]						
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117	S1	2		0.5	1	12
	GS] and [CMY127 GS] and [MLB111 GS]						
FST250	INTRO/FOOD_SCIENCE_&_TECH250 Prerequisite/s:	S1	2		1		12
	[CMY117] and [CMY127] and [MBY161] and [PHY131] and						
	[WTW134] or [TDH]						
LEK251	INTRTO_FARM_MANAGEMENT_251	K1	3		0		6
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3		0		6
MBY251	<u> </u>	S1	2		1		12
	[MBY161 GS]						
VDG250	NUTRITION_250 Prerequisite/s: [CMY127]	S1	3		0.5		12
	Totals for compulsory modules in the first/second quarter		14/	14	3.5/3	.5	36/36
Second y	year, second semester:						
Code	Name	•	Qrt	lpw	/ pp	w	Crdt
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117		S2	2	0.	5	12
	GS] and [CMY127 GS] and [MLB111 GS]						
BCM262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117		S2	2	0.	5	12
	GS] and [CMY127 GS] and [MLB111 GS]			_	_	_	
FST260	PRIN/FOOD_PROC&_PRESERV260 Prerequisite/s: [CMY11	7]	S2	2	1		12
	and [CMY127] and [MBY161] and [PHY131] and [WTW134] or						
LEK220	[TDH] AGRICULTURAL ECONOMICS 220 Prerequisite/s: [LEK251] an	4	S2	3	(+	12
LEKZZU	[LEK252] or EKN113 and/or EKN120]	u	52	3		'	12
MBY261	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY1	S2	2	1	_	12	
IVIDTZUT	Totals for compulsory modules in the third/fourth quarter	01]	_	11/1		_	30/30
	Compulsory credits = (132) Elective credits = (132)	12)		1 1/ 1	1 0/	J	30/30
	Compulsory credits = (102) Elective credits = (12)					
Third ve	ar, first semester:						
Code	Name	(Qrt	pw	ppv	,	Crdt
	INTEGRATED_FOOD_SCIENCE_350 Prerequisite/s: [FST250] an	_	31	1	0	1	18
	[FST260] or [TDH]			1	-		
FST351	FOOD_CHEMISTRY-(1)_351 Prerequisite/s: [BCM251] and		S1	2	1		18
	[BCM252] and [BCM261] and [BCM262] or [TDH]						
FST352	FOOD_CHEMISTRY-(2)_352 Prerequisite/s: [FST351]		S1	2	1		18
FST353	FOOD_ENGINEERING_353 Prerequisite/s: [CMY117] and		S1	3	0.5	П	18
	[CMY127] and [FST260] and [PHY131] and [WTW134] or [TDH]						
	Totals for compulsory modules in the first/second quarter			8/8	2.5/2	.5	36/36
Third year	ar, second semester:						
Code	Name		Q	rt Ip	ow pp	w	Crdt
FST360	PLANT_FOOD_SCIENCE_360 Prerequisite/s: [FST250] and [FST	260	S	2	2 1	1	18
	and [FST351] and [FST352] or [TDH]		01 S	↓			
FST361					2 1	١	18
	and [FST351] and [FST352] or [TDH]				3 2		
	LEK320 AGRICULTURAL_ECONOMICS_320					2	18
MBY362	FOOD_MICROBIOLOGY_362 Prerequisite/s: [MBY251]		S	_	2 1		18
						/-	00/00
	Totals for compulsory modules in the third/fourth quarter			9	/9 5	5	36/36
	Totals for compulsory modules in the third/fourth quarter Compulsory credits = (144) Elective credits = (0)		9	/9 5	5	36/36

Code	rear, first semester: Name	Qrt	lpw	ppw	Crdt
	RESEARCH METHODOLOGY & SEM.400 Prerequisite/s: [Third	J1	2	1	10
1 31400	year status] or [TDH]	31		'	10
FST401	ANIMAL_FOOD_TECHNOLOGY_401 Prerequisite/s: [FST361] or [TDH]	J1	3	1.5	15
FST402	PLANT_FOOD_TECHNOLOGIES_402 Prerequisite/s: [FST360] or [TDH]	J1	3	1.5	15
FST410	PRODUCT_DEVELOPMENT_410 Prerequisite/s: [FST260] and [FST351] and [FST352] or [TDH]	S1	2	1	20
FST411	SENSORY_ANAL.&QUAL.MAN.SYS.411 Prerequisite/s: [FST260] and [FST351] and [FST352] or [TDH]	S1	2	1	20
	Totals for compulsory modules in the first/second quarter		12/12	6/6	40/40
Fourth y	rear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
FST400	RESEARCH_METHODOLOGY_&_SEM.400 Prerequisite/s: [Third year status] or [TDH]	J1	2	1	10
FST401	ANIMAL_FOOD_TECHNOLOGY_401 Prerequisite/s: [FST361] or [TDH]	J1	3	1.5	15
FST402	PLANT_FOOD_TECHNOLOGIES_402 Prerequisite/s: [FST360] or [TDH]	J1	3	1.5	15
FST420	ADVANCED_FOOD_SCIENCE_420 Prerequisite/s: [Third year status] or [TDH]	S2	2	1	20
FST463	PROJECT_463 Prerequisite/s: [Third-year status in Food Science or TDH]	S2	1	2	20
	Totals for compulsory modules in the third/fourth quarter		11/11	7/7	40/40
	Compulsory credits = (160) Elective credits = (0)				
A minim	um of (600) credits is required to obtain the degree.				

Field of study	Dept	Code
BSc(Agric) Genetics: Plant Breeding	GTS	03130301

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				

	(SG) Grade 12 Mathematics or an equivalent Mathematics	П		I	_	Т		
	achievement.]							
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]		S2	2	0.	5	8	
	COMPUTER_&_INFORM.LITERACY_173	T I	K3	2	0	_	3	
	COMPUTER & INFORM.LITERACY 174	_	K4	2	0	_	3	
	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	_	S2	4	1	_	16	
0	CMY101]		-	•				
EOT153	LANGUAGE_PROFICIENCY(3)_153	T	K3	2	0	T	3	
-	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	T	3	
	INTRODUCTORY GENETICS 161 Prerequisite/s: [MLB111 GS]	or	S2	2	0.	5	8	
	[TDH]							
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY11	7]	S2	2	0.	5	8	
	and [MLB111]	-						
ZEN161	ANIMAL_DIVERSITY_161		K3	4	1		8	
	Totals for compulsory modules in the third/fourth quarter	-		22/1	18 5/	4	42/34	
	Compulsory credits = (152) Elective credits = (0)						
Second y	year, first semester:							
Code	Name		Qrt	lpv	у рр	W	Crdt	
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117		S1	2	0.	5	12	
	GS] and [CMY127 GS] and [MLB111 GS]							
BCM252	CARBOHYDRATE_METABOLISM_252 Prerequisite/s: [CMY117		S1	S1	2	0.	5	12
	GS] and [CMY127 GS] and [MLB111 GS]							
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117	7	S1	3	1		12	
	GS] or [TDH]					4		
GTS251	GENE_&_CHROMOSOME_ORGANIZ251 Prerequisite/s: [GTS1	61	S1	2	0.	5	12	
	GS] or [TDH]	_		_	_	_		
	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	_	S1	2	0.	-	12	
	INTRTO_FARM_MANAGEMENT_251	_	K1 3		0	-	6	
	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	_	K2	3	0	_	6	
PLG251	INTROCROP_PROTECTION_251		S1	2	1	_	12	
_	Totals for compulsory modules in the first/second quarter			16/1	16 4/	4	42/42	
	year, second semester:							
Code	Name	Qrt)W	ppw	4	Crdt	
BCM261	LIPID_&_NITROGEN_METABOLIS.261 Prerequisite/s: [CMY117	S2		2	0.5		12	
DOMOGO	GS] and [CMY127 GS] and [MLB111 GS]	-	Η.	_	0.5	+	40	
BCIVI262	BIOCHEMISTRY_IN_PERSPECT262 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S2		2	0.5		12	
GTS261	GENETIC_ANAL&_MANIPULA261 Prerequisite/s: [GTS161	S2	Η.	2	0.5	+	12	
G13201	GS] or [TDH]	32		_	0.5		12	
LEK220	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251]	S2		3	0	$^{+}$	12	
LLINEZO	and [LEK252 or EKN113 and/or EKN120]							
PLG261	EPIDEMIOLOGY 261	S2	T:	2	1	T	8	
	Totals for compulsory modules in the third/fourth quarter		_		2.5/2.	5	28/28	
	Leaves A construction of the state of the st		-	-				
	Compulsory credits = (140) Elective credits = (0)						
		-,						
Third vea	ar, first semester:							
Code	Name		C	Qrt Ip	ow pp	w	Crdt	
	EUKARYOTIC_GENE_CON.&_DEVL.351 Prerequisite/s: [GTS25	1 GS	_		2 1	_	18	
			11,	-				

í	and [GTS261 GS] or [TDH]					
	GENOMES_352 Prerequisite/s: [GTS251 GS] and [GTS261 GS] or		31	2	1	18
	[TDH]			_	-	
	ADVPOPULATION_GENETICS_353 Prerequisite/s: [GTS251 GS] a	nd S	S1	2	1	18
l						
PLG351	GENERAL_PLANTPATHOLOGY_351	,	31	2	1	18
	Totals for compulsory modules in the first/second quarter			8/8	4/4	36/36
Third yea	r, second semester:					
Code	Name	Q	rt Ip	ow p	pw	Crdt
GTS362	INTRODUCTION_TO_PLANTBREED.362 Prerequisite/s: [GTS251	S	2	2	1	18
	GS] and [GTS261 GS] or [TDH]					
GTS363	EVOLUTIO&_PHYLO-GENETICS_363 Prerequisite/s: [GTS353 GS] S:	2	2	1	18
	or [TDH]					
PLG364	HOST_PATHOGEN_INTERACTIONS_364	S	2	2	1	18
ZEN365	INSECT_PEST_MANAGEMENT_365	K	4	4	2	18
	Totals for compulsory modules in the third/fourth quarter		6/	10 3	3/5	27/45
	Compulsory credits = (144) Elective credits = (0)					
Fourth ye	ear, first semester:					
Code	Name	Qrt	lpν	w p	pw	Crdt
AGR313	PRIMARY FOOD CROPS 313	S1	2	. ().5	14
BME210	BIOMETRY_210 Prerequisite/s: [BME120]	S1	4		1	24
	SEMINAR_&_TECHNIQUES_MODULE451 Prerequisite/s: [GTS352	K1	4		1	18
	GS] or [TDH]					
GTS452	ADVANCED_PLANT_BREEDING_452 Prerequisite/s: [GTS362 GS]	K2	4		1	18
	or [TDH]					
HSC351	NURSERY_MANAGEMENT_351	S1	2	. ().5	14
•	Totals for compulsory modules in the first/second quarter		12/	12 3	3/3	44/44
					•	
Fourth ve	ear, second semester:					
Code	Name	Qrt	lnw	pp	w	Crdt
	INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK251]	S2	2	0.	-	14
GTS461	PLANTBREEDING_STRATEGIES_461 Prerequisite/s: [GTS452 GS]	K3	4	1	-	18
010101	or [TDH]		•			
GTS462	APPLICATIONS_IN_PLANTBREED.462 Prerequisite/s: [GTS452	K4	1	2		18
3.3.32	GS] or [TDH]		•	l ~		
PLG461	NURSERY & SEED PATHOLOGY 461	S2	1	0.	5	10
	TURFGRASS MANAGEMENT 461	S2	2	0.	_	14
3.	Totals for compulsory modules in the third/fourth quarter			2.5/	_	37/37
	The state of the s		-, 5	/		2.,01
	Compulsory credits = (162) Elective credits = (2)					
	Compaisory creates = (102) Liective creates = (2)					
4 minimu	ım of (600) credits is required to obtain the degree.					

Field of study	Dept	Code

03130411

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First yea	r, first semester:				
	tet: This option has temporarily been put on hold. No new students	will	be adm	itted	until
further no					
Code	Name	Qrt		ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
FSK116	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S1	4	1	16
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
WTW114	_ ' ' '	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
WTW134	can be taken instead of WTW114				
*******	can be taken instead of WTWTT4				
First yea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
SWK122	MECHANICS_122	S2	4	0	16
WTW126	LINEAR_ALGEBRA_126 Prerequisite/s: [Par 1.2]	S2	2	1	8
WTW128	CALCULUS_128 Prerequisite/s: [WTW114 GS or WTW101 GS]	S2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		16/16	3/3	30/30
WTW144	can be taken instead of WTW126 and WTW128.				
	Compulsory credits = (136) Elective credits = (16))			
	ear, first semester:	,			
Code	Name	Qrt	lpw	ppw	Crdt
	FINANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]	K1	4	0	5
FRK152	FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] and [Par.1.2]	K2	4	0	5
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH]	S1	3	1	12
HSC252	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1	2	0.5	12
	INTRTO_FARM_MANAGEMENT_251	K1	3	0	6
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3	0	6
MIT113	ENGINEERING_DRAWING_113	S1	3	0	16
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150]	S1	2	0.5	12
	Totals for compulsory modules in the first/second quarter		17/17	2/2	37/37
Second v	rear, second semester:		,.,	_,_	3.,31
Code	Name	Qrt	lpw	ppw	Crdt

BSc(Agric) Mechanized Agriculture

	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 G	-		2 4	1	16		
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or	50%						
	(SG) Grade 12 Mathematics or an equivalent Mathematics							
	achievement.]		1,	0 0	0.5			
	TREE_GROWTH_&_DEVELOPMENT_261 Prerequisite/s:		K	3 2	0.5	6		
	[GKD250] and [GKD260 #] and [HSC252]		_	0 0		40		
	ENGINEERING_MANAGEMENT_220		S		0	10 12		
LEK220	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK25]	ıj and	d S	2 3	0	12		
LICIMOOO	[LEK252 or EKN113 and/or EKN120]		-	2 2	0.5	14		
LKVVZZZ	AGRICPOWER_MACHINERY_222		S	2 2	0.5 1 2/1.5			
	Totals for compulsory modules in the third/fourth quarter			13/1	1 2/1.3	32/20		
	Compulsory credits = (132) Elective credits	s = (′	12)					
This at a con-	that a market							
	r, first semester:	0.4	1			Cadt		
Code	Name	Qrt	_	OW O	ppw	Crdt 14		
	PRIMARY_FOOD_CROPS_313	S1		2	0.5			
	PROCESSING_311	_		3	0	8		
	PROCESSING_312	S1		2	0.5	8		
	COMMUNICATION_313	S1	0.5				0	2
	SOIL_WATER_RELA.&_IRRIGAT350	S1	2		0.5	16		
	SITE_SURVEYING_215	S1		2	1	8		
	SITE_SURVEYING_217	S1	2		1	8		
	ATMOSPHERIC_PROCESSES_151	K1	4		0.6	8		
	ATMOSPHERIC_CIRC.&_CLIMATE_152	K2		4	0.6	8		
	otals for compulsory modules in the first/second quarter		17.5	/17.5	4.1/4.1	40/40		
	ır, second semester:		0**	lever		Cualt		
Code	Name		Qrt S2	lpw 2	ppw 0.5	Crdt 14		
	INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK251]							
GKD260	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD2 GS]	250	S2	3	1	12		
GMA220	REMOTE_SENSING_220 Prerequisite/s: [GPS220] or [TDH]		S2	3	1	16		
LBC320	INDUSTRIAL_PRINCIPLES_320		S2	2	0	8		
LHL311	HYDRAULICS_311		S2	2	0.5	10		
LOX320	DESIGN_320		S2	0	1	8		
PGW361	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s:		S2	2	0.5	14		
	[BME161] and [BME162]							
	Totals for compulsory modules in the third/fourth quarter			14/14	4.5/4.5	41/41		
	Compulsory credits = (162) Elective credit	s = (0)					
Farmeth	C							
	ear, first semester:		10.	t lacco		016		
Code	Name		Qr		ppw	Crdt		
	INTRODUCTORY_GIS_283		S1		2	12		
	SOIL_DYNAMICS_411		S1	_	0.5	10		
	HYDRAULICS_411		S1		0.5	15		
	AGRICULTURAL_STRUCTURES_410		S1		0.5	15		
LPW410	AGRIC.PRODUCTION_EQUIPMENT_410		S1	2	0.5	10		

LSC402	PROJECT_402 Prerequisite/s: [LOX320]		J1	0 1	.5 16	
	Totals for compulsory modules in the first/second quarter		1	3/9 5.5	/3.5 45/33	
Fourth y	ear, second semester:					
Code	Name	Qrt	lpw	ppw	Crdt	
LBP420	IRRIGATION_420 Prerequisite/s: [LHL311/LHL401]	S2	3	0.5	15	
LEK320	AGRICULTURAL_ECONOMICS_320	S2	3	2	18	
LGH420	SOIL_CONSERV&_HYDROLOGY_420	S2	3	0.5	15	
LLI420	RURAL_ENGINEERING_420	S2	3	0	9	
LSC402	PROJECT_402 Prerequisite/s: [LOX320]	J1	0	1.5	16	
	Totals for compulsory modules in the third/fourth quarter		12/12	2 4.5/4.	5 36.5/36.5	
	Compulsory credits = (151) Elective credits = (11)					
A minim	um of (620) credits is required to obtain the degree.			,		

Field of study	Dept	Code
BSc(Agric) Plant Pathology	MBY	03130321

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				
	achievement.]				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
1 1	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8
	[TDH]				
	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8
	and [MLB111]	Ш			
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34

 	Compulsory credits = (152) Elective credits = (0)				
Second y	ear, first semester:					
Code	Name	Qrt	Ιpι	N	ppw	Crdt
BCM251	INTRO. TO PROT. & ENZYMES 251 Prerequisite/s: [CMY117	S1	2	_	0.5	12
	GS] and [CMY127 GS] and [MLB111 GS]					
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	S1	3		1	12
	[CMY117 GS] or [TDH]					
	INTRTO_FARM_MANAGEMENT_251	K1	3	_	0	6
PLG351	GENERAL_PLANTPATHOLOGY_351	S1	2		1	18
ZEN355	INSECT_DIVERSITY_355	K2	4		2	18
	Totals for compulsory modules in the first/second quarter		10/	11 2	2.5/4.5	27/39
Second y	rear, second semester:					
Code	Name	(Qrt	lpw	ppw	Crdt
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] ar [CMY117] and [CMY127] or [TDH]	nd :	S2	2	1	12
GKD260	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 G	S] ;	S2	3	1	12
	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and [LEK252 or EKN113 and/or EKN120]	: 1	S2	3	0	12
	GROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: [MBY16	311 9	S2	S2 2		12
	EPIDEMIOLOGY_261		S2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		_	12/1	_	28/28
PI G251 is	s recommended as an elective module.				_ ,	
	Compulsory credits = (122) Elective credits = (2	21)				
Third yea	first samestan					
	r, first semester:					
Code	n, first semester: Name	(Qrt	lpw	ppw	Crdt
		_	Qrt S1	lpw 2		Crdt
AGR313 BOT352	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16		_			-
AGR313 BOT352	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH]	1] :	S1 S1	2	0.5	14 18
AGR313 BOT352 MBY251	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16	1] :	S1	2	0.5	14
AGR313 BOT352 MBY251 MBY351	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16	; i1] ; i1] ;	S1 S1	2	0.5	14 18
AGR313 BOT352 MBY251 MBY351 PPK251	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251]	31] 3 31 3 31 3	S1 S1 S1	2 2	0.5	14 18 12
AGR313 BOT352 MBY251 MBY351 PPK251	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150]	\$1] \$ \$1 \$ \$1 \$	S1 S1 S1	2 2 2	0.5 1 1	14 18 12 18
AGR313 BOT352 MBY251 MBY351 PPK251	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161	\$1] \$ \$1 \$ \$1 \$	S1 S1 S1 S1	2 2 2	0.5 1 1 1 0.5	14 18 12 18 12 6
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251] and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter	\$1] \$ \$1 \$ \$1 \$	S1 S1 S1 S1	2 2 2 2 2	0.5 1 1 1 0.5	14 18 12 18 12 6
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251] and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter ir, second semester:	\$1] \$ \$1 \$ \$1 \$	S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	2 2 2 2 2 0 10/1	0.5 1 1 1 0.5 1 0 5/4	14 18 12 18 12 6 43/37
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153 Third year	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter ir, second semester: Name GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251]		S1 S1 S1 S1 Q	2 2 2 2 2 0 10/1	0.5 1 1 1 0.5	14 18 12 18 12 6 43/37
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153 Third yea Code MBY364	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter ir, second semester: Name GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251] [CMY127] and [MBY161]		S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	2 2 2 2 2 0 110/1	0.5 1 1 0.5 1 0.5 2 0 5/4	14 18 12 18 12 6 43/37 Crdt 18
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153 Third year Code MBY364 PLG363	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter ir, second semester: Name GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251] [CMY127] and [MBY161] PLANT_DISEASE_CONTROL_363		S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	2 2 2 2 2 0 110/1	0.5 1 0.5 1 0.5 1 0.5 4 0.5 1 0.5 1 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1	14 18 12 18 12 6 43/37 Crdt 18
AGR313 BOT352 MBY251 MBY351 PPK251 SCI153 Third yea Code MBY364 PLG363	Name PRIMARY_FOOD_CROPS_313 PLANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16 or [TDH] and [CMY117] or [TDH] and [CMY127] or [TDH] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 GS] STRUCT.&_DIVERS.OF_VIRUSES_351 Prerequisite/s: [BCM251 and [CMY127] and [MBY161] SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_SKILLS_153 Totals for compulsory modules in the first/second quarter ir, second semester: Name GENE.MANIPULATION/MICROBES.364 Prerequisite/s: [BCM251] [CMY127] and [MBY161]		S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	2 2 2 2 2 0 110/1 rt p	0.5 1 0.5 1 0.5 1 0.5 4 0.5 1 0.5 1 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1	14 18 12 18 12 6 43/37 Crdt 18 18

	Compulsory credits = (134) Elective credits = (0)				
Fourth ye	ear, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BME210	BIOMETRY_210 Prerequisite/s: [BME120]		S1	4	1	24
HSC252	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]		S1	2	0.5	12
MBY352	ENVIRONMENTAL_MICROBIOLOGY_352 Prerequisite/s: [MBY16	1]	S1	2	1	18
OKW413	WEED_SCIENCE_413		S1	2	0.5	14
PGW401	SEMINAR_401		J1	1	0	8
PLG462	RESEARCH_PROJECT_462		J1	1	1	10
	Totals for compulsory modules in the first/second quarter			12/1	2 4/4	43/43
Fourth ye	ear, second semester:					
Code	Name	Qrt	Ιp	W	ppw	Crdt
AGV421	COMMUNICATION_421	S2	2	: [0	20
HSC460	PROD.SYS.1V:SUBTROP.FRU.PR.460	S2	2	: [0.5	12
MBY363	MOLECBIOL.OF_PROKARYOTES_363 Prerequisite/s: [BCM251] and [CMY127] and [MBY161]	S2	2	!	1	18
PGW361	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s: [BME161] and [BME162]	S2	2	!	0.5	14
PGW401	SEMINAR_401	J1	1		0	8
PLG461	NURSERY_&_SEED_PATHOLOGY_461	S2	1		0.5	10
PLG462	RESEARCH_PROJECT_462	J1	1		1	10
	Totals for compulsory modules in the third/fourth quarter		11/	11 3	3.5/3.5	46/46
	Compulsory credits = (178) Elective credits = (0 am of (600) credits is required to obtain the degree.)				

Field of study	Dept	Code
BSc(Agric) Plant Production	PGW	03130161

Students	who want to enroll for the main subjects: Agronomy, Horticulture or	Past	ure Sc	ience	, must
	register for the BSc(Agric) Plant Production degree.				
First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First year	, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				
	achievement.]				

	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	<u> </u>	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174 KA				0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or CMY101]	S2	2	4	1	16
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	ΚΔ	ı	2	0	3
	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] and [MLB111]	S2	2	2	0.5	8
ZEN161	ANIMAL_DIVERSITY_161	K3	3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22	/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)					
Second y	rear, first semester:					
Code	Name	Q	rt I	pw	ppw	Crdt
BCM251	INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 GS] and [CMY127 GS] and [MLB111 GS]	S	1	2	0.5	12
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH]	S	1	3	1	12
HSC252	2 CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]				0.5	12
					0	6
	:K251 INTRTO_FARM_MANAGEMENT_251 :K252 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]				0	6
	LG251 INTROCROP_PROTECTION_251				1	12
	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150]	S	+	2	0.5	12
WDE250	*	S	1	2	0.5	12
	Totals for compulsory modules in the first/second quarter			- 3/16		42/42
Second v	rear, second semester:			.,	., .	
Code	Name	Qrt	lpw	Tr	pw	Crdt
BOT261	PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] and [CMY117] and [CMY127] or [TDH]	S2	2		1	12
GKD260	GSI GSI	S2	3		1	12
	AGRICULTURAL CLIMATOLOGY 262	S2	2	-	0.5	12
	PLANT DISEASE CONTROL 363	S2	2	╈	1	18
	INSECT PEST MANAGEMENT 365	K4	4	\dagger	2	18
2211000	Totals for compulsory modules in the third/fourth quarter			3 3 5	5/5.5	27/45
	Totals for compaisory modules in the time/fourth quarter	!	5/10	, 0.0	0.0	21/40
	Compulsory credits = (156) Elective credits = (0)					
	Compaisory credits = (130) Elective credits = (0)					
Third yes	ır, first semester:					
Code	Name	-1	Qrt	lpw	ppw	Crdt
	SOIL CLASSIF.& SURVEYING 350 Prerequisite/s: [GKD250 GS]		S1	ipw 2	ppw 1	14
	SOIL PHYSICS 351 Prerequisite/s: [GKD250]		S1	1	0.5	10
PGW350	,		S1	2	0.5	16
FGW350	SOIL_WATEN_RELA.&_IRRIGATSSU		ЗI		0.5	10

	Totals for compulsory modules in the first/second quarter		5/	5 2/2	20/20
Third year	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
HSC362	DECIDUOUS_POMOLOGY_362 Prerequisite/s: [HSC261] and	S2	2	0.5	14
	[PPK251]				
LEK220	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and	S2	3	0	12
	[LEK252 or EKN113 and/or EKN120]				
LIR421	AGRICULTURAL_ENGINEERING_421	S2	3	2	8
PGW361	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s: [BME161]	S2	2	0.5	14
	and [BME162]				
	Totals for compulsory modules in the third/fourth quarter		10/1	0 3/3	24/24
	can be chosen from: VKU210,220,221,222, WDE350,420, AGR313,	361,	HSC	350,351	,362
and PLG4	61.				
	Compulsory credits = (88) Elective credits = (56)				
F	East sometime				
	ear, first semester:	0	la		01
Code	Name	Qrt			
	BIOMETRY_210 Prerequisite/s: [BME120]	S1	4	1	24
	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]	S1	3	1	14
	ENVIRONMENTAL_BIOPHYSICS_450	S1	2	0.5	16
	WEED_SCIENCE_413	S1	2	0.5	14
PGW400	SEMINAR_400	J1	3	0	10
	Totals for compulsory modules in the first/second quarter		14/1	4 3/3	39/39
	ear, second semester:	- 1			
Code	Name	-	lpw	ppw	Crdt
APS461	CROP_PHYSIOLOGY_461 Prerequisite/s: [GKD250] and	S2	2	0.5	14
01/5 /00	[GKD260] and [HSC252] and [HSC261] and [PGW352]	-	_		.
GKD460	ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250]	S2	2	1	14
070000	and [GKD350] INTRODUCTION TO PLANTBREED.362 Prerequisite/s: [GTS251	S2	_	_	- 10
G15362	GS] and [GTS261 GS] or [TDH]	52	2	1	18
DC/M/100	SEMINAR 400	J1	3	0	10
FGVV400	Totals for compulsory modules in the third/fourth quarter	31		2.5/2.5	28/28
	Totals for compulsory modules in the unitariounal qualiter		313 2	2.3/2.3	20/20
Flectives	can be chosen from: PPR450, WDE450,461,481, HSC450,460,490	and A	AGR4	60	
LICCHV62	Can be chosen from: 11 1(450, WDL450,401,401, 1130450,400,430	unu /	10114	00.	
	Compulsory credits = (134) Elective credits = (26)				
	Compaisory Ground = (104) Elective Greats = (20)				
A minimi	ım of (612) credits is required to obtain the degree.				

Field of study	Dept	Code
BSc(Agric) Plant Protection	MBY	03130261

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3

014)/447	OFNEDAL OHEMIOTOV 447 Processidate/or (Day 4.0)	104	Ι 4	1 4	40
	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
	LANGUAGE_PROFICIENCY(2)_152	K2		0	3
	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
	r, second semester:				1
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				
	(SG) Grade 12 Mathematics or an equivalent Mathematics				
	achievement.]				
BOT161	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or	S2	2	0.5	8
	[TDH]				
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8
	and [MLB111]				
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)				
	rear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	BIOMETRY_210 Prerequisite/s: [BME120]	S1	4	1	24
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117	S1	3	1	12
	GS] or [TDH]				
	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1	2	0.5	12
	INTRTO_FARM_MANAGEMENT_251	K1	3	0	6
	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3	0	6
	INTROCROP_PROTECTION_251	S1	2	1	12
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161	S1	2	0.5	12
	or BLG150]				
	Totals for compulsory modules in the first/second quarter		16/16	4/4	42/42
Second y	year, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BOT261		S2	2	1	12
	[CMY117] and [CMY127] or [TDH]				
	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 GS]	S2	3	1	12
HSC261	TREE_GROWTH_&_DEVELOPMENT_261 Prerequisite/s:	K3	2	0.5	6
	[GKD250] and [GKD260 #] and [HSC252]				
1 51/000	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and	S2	3	0	12
LEK220	AGNIGOLI GIVAL_EGGIVOMIGO_220 i Terequisite/s. [LEN251] dila	UZ.	J	U	12

LKM262 AC MBY261 GF [M			-		-	
MBY261 GF [M	EK252 or EKN113 and/or EKN120]	4				
[M	GRICULTURAL_CLIMATOLOGY_262	_	2	2	0.5	12
PLG261 EF	ROWTH_ACT.&_CONTROL/FUNGI_261 Prerequisite/s: BY161]	S	2	2	1	12
	PIDEMIOLOGY_261	S	2	2	1	8
	Totals for compulsory modules in the third/fourth quarter		10	6/14	5/4.5	40/34
	Compulsory credits = (158) Elective credits = (0)				
Third year,	first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BOT352 PL	_ANT_STRUCTURE_&_FUNCTION_352 Prerequisite/s: [BOT16	1]	S1	2	1	18
or	[TDH] and [CMY117] or [TDH] and [CMY127] or [TDH]					
MBY251 GF	ROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY16 6]	1	S1	2	1	12
PLG351 GE	ENERAL_PLANTPATHOLOGY_351		S1	2	1	18
	CADEMIC_PROFICIENCY_153		K1	0	1	6
	SECT_DIVERSITY_355		K2	4	2	18
	Totals for compulsory modules in the first/second quarter			6/10	4/5	30/42
Third year.	second semester:					
Code	Name		Qrt	wal	ppw	Crdt
	TRODUCTION_TO_PLANTBREED.362 Prerequisite/s: [GTS251		S2	2	1	18
	6] and [GTS261 GS] or [TDH]		02	-		10
	ANT DISEASE CONTROL 363		S2	2	1	18
	DST_PATHOGEN_INTERACTIONS_364		S2	2	1	18
	SECT PEST MANAGEMENT 365		K4	4	2	18
ZENOCO IIN	Totals for compulsory modules in the third/fourth quarter			6/10	_	27/45
	Totale for compaledly mediated in the time/rearth quarter			0/10	0/0	217 10
	Compulsory credits = (144) Elective credits = (0)				
	Comparably created = (144) Elective created = (1	<u>, </u>				
Fourth year	r, first semester:					
Code	Name	Qrt	lpv	v 1	opw	Crdt
	RIMARY_FOOD_CROPS_313	S1	2		0.5	14
	ITRICULTURE 350 Prerequisite/s: [HSC252] and [HSC261]	S1	3		1	14
	nd [PPK251]	•			.	• •
	URSERY MANAGEMENT 351	S1	2		0.5	14
	NVIRONMENTAL MICROBIOLOGY 352 Prerequisite/s:	S1	2	+	1	18
MBY352 EI	MBY1611					
	וטווטון					
[N	/EED_SCIENCE_413	S1	2		0.5	14
OKW413 W	- 1	S1 J1	2	7	0.5	14 10
OKW413 W PGW400 SI	EED_SCIENCE_413	_				
OKW413 W PGW400 SE PLG462 RI	/EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462	J1	3	15 4.	0	10
OKW413 W PGW400 SE PLG462 RI	EED_SCIENCE_413 EMINAR_400	J1	3		0	10
OKW413 W PGW400 SI PLG462 RI	/EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462	J1	3		0	10
OKW413 W PGW400 SI PLG462 RI	/EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462 fotals for compulsory modules in the first/second quarter	J1	3		0	10
[M OKW413 W PGW400 SI PLG462 RI T HSC450 car	EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462 otals for compulsory modules in the first/second quarter to be taken instead of HSC350.	J1	3		0	10
[M OKW413 W PGW400 SI PLG462 RI T HSC450 car	/EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462 fotals for compulsory modules in the first/second quarter	J1 J1	3	15 4.	0 1 5/4.5	10 10 47/47
[MOKW413 WPGW400 SIPLG462 RIPLG462 RIPLG462 Care	EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462 otals for compulsory modules in the first/second quarter n be taken instead of HSC350. r, second semester: Name	J1 J1	3 1 15/1	15 4.	0 1 5/4.5	10 10 47/47 Crdt
[M OKW413 W PGW400 Si PLG462 Ri T HSC450 car Fourth year Code AGR361 IN	EED_SCIENCE_413 EMINAR_400 ESEARCH_PROJECT_462 otals for compulsory modules in the first/second quarter to be taken instead of HSC350. r, second semester:	J1 J1	3 1 15/1	15 4.	0 1 5/4.5	10 10 47/47

	MOLECBIOL.OF_PROKARYOTES_363 Prerequisite/s: [BCM251] and [CMY127] and [MBY161]	S2	2	1	18		
	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s: [BME161] and [BME162]	S2	2	0.5	14		
PGW400	SEMINAR_400	J1	3	0	10		
PLG461	NURSERY_&_SEED_PATHOLOGY_461	S2	1	0.5	10		
PLG462	RESEARCH_PROJECT_462	J1	1	1	10		
	Totals for compulsory modules in the third/fourth quarter 15/15 4/4 5						
MBY364 d	MBY364 can be taken instead of PGW361.						
	Compulsory credits = (202) Elective credits = (0)						
A minimu	ım of (656) credits is required to obtain the degree.						

Field of study	Dept	Code
BSc(Agric) Soil Science	PGW	03130290

First yea	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
CMY117	GENERAL_CHEMISTRY_117 Prerequisite/s: [Par 1.2]	S1	4	1	16
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
MLB111	MOLECULAR_&_CELL_BIOLOGY_111	S1	4	1	16
PHY131	GENERAL_PHYSICS_131 Prerequisite/s: [Par 1.2]	S1	4	1	16
WTW134	MATHEMATICS_134 Prerequisite/s: [Par 1.2]	S1	4	1	16
	Totals for compulsory modules in the first/second quarter		20/20	4/4	38/38
First yea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and	S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%				1
	(SG) Grade 12 Mathematics or an equivalent Mathematics				1
	achievement.]				
	PLANT_BIOLOGY_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
_	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
_	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
CMY127	GENERAL_CHEMISTRY_127 Prerequisite/s: [CMY117 GS or	S2	4	1	16
	CMY101]				
	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
_	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
GTS161	INTRODUCTORY_GENETICS_161 Prerequisite/s: [MLB111 GS] or [TDH]	S2	2	0.5	8
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117]	S2	2	0.5	8
	and [MLB111]	-			
ZEN161	ANIMAL_DIVERSITY_161	K3	4	1	8
	Totals for compulsory modules in the third/fourth quarter		22/18	5/4	42/34
	Compulsory credits = (152) Elective credits = (0)				

Second year, first semester: Code
Code
BCM251 INTROTO_PROT&_ENZYMES_251 Prerequisite/s: [CMY117 S1 2 0.5 GS] and [CMY127 GS] and [MLB111 GS] S1 2 0.5 GS] and [CMY127 GS] and [MLB111 GS] S1 3 1 GS] or [TDH] GS] or [TDH] S1 3 1 1 GS] or [TDH] HSC252 CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150] S1 2 0.5
GS] and [CMY127 GS] and [MLB111 GS]
Second year, second semester: Code
GS] or [TDH]
HSC252 CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150] S1 2 0.5
LEK251 INTRTO_FARM_MANAGEMENT_251
LEK252 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] K2 3 0 PLG251 INTROCROP_PROTECTION_251 S1 2 1 PPK251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 S1 2 0.5 or BLG150] WDE250 PRINCIPLES_OF_VELD_MANAGM250 S1 2 0.5 Totals for compulsory modules in the first/second quarter 16/16 4/4 4/2 Second year, second semester: Code
PLG251 INTROCROP_PROTECTION_251
PPK251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 S1 2 0.5 or BLG150]
or BLG150] S1 2 0.5 WDE250 PRINCIPLES_OF_VELD_MANAGM250 S1 2 0.5 Totals for compulsory modules in the first/second quarter 16/16 4/4 4 Second year, second semester: Code Name Qrt lpw ppw C BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] S2 2 1 3 1 3 3 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 4 2 4
WDE250 PRINCIPLES_OF_VELD_MANAGM250
Totals for compulsory modules in the first/second quarter
Second year, second semester: Code Name Qrt lpw ppw C BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] S2 2 1 and [CMY117] and [CMY127] or [TDH] S0 S2 3 1 GKD260 SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 S2 3 1 GS] LKM262 AGRICULTURAL_CLIMATOLOGY_262 S2 2 0.5 PLG363 PLANT_DISEASE_CONTROL_363 S2 2 1 ZEN365 INSECT_PEST_MANAGEMENT_365 K4 4 2
Code Name Qrt lpw ppw C BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] \$\frac{2}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$
Code Name Qrt lpw ppw C BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] \$\frac{2}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$
Code Name Qrt lpw ppw C BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] \$\frac{2}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$
BOT261 PLANT_BIOCHEMEVOLUTION_261 Prerequisite/s: [BOT161] S2 2 1 and [CMY117] and [CMY127] or [TDH] S0IL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 S2 3 1 GS] LKM262 AGRICULTURAL_CLIMATOLOGY_262 S2 2 0.5 PLG363 PLANT_DISEASE_CONTROL_363 S2 2 1 ZEN365 INSECT_PEST_MANAGEMENT_365 K4 4 2
and [CMY117] and [CMY127] or [TDH]
GKD260 SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 S2 3 1 GS] LKM262 AGRICULTURAL_CLIMATOLOGY_262 S2 2 0.5 PLG363 PLANT_DISEASE_CONTROL_363 S2 2 1 ZEN365 INSECT_PEST_MANAGEMENT_365 K4 4 2
GS
PLG363 PLANT_DISEASE_CONTROL_363 S2 2 1 2 2 1 2 2 1 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 3 <t< td=""></t<>
ZEN365 INSECT_PEST_MANAGEMENT_365 K4 4 2
Totals for compulsory modules in the third/fourth quarter 9/13 3.5/5.5 27
Compulsory credits = (156) Elective credits = (0)
Third year, first semester:
Code Name Qrt lpw ppw C
CMY282 PHYSICAL_CHEMISTRY_282 Prerequisite/s: [CMY117 or CMY101 K1 4 1
and CMY102] and [CMY127 or CMY101 and CMY102] and
[WTW114 GS or WTW134 GS or WTW158 GS]
CMY284 ORGANIC_CHEMISTRY_284 Prerequisite/s: [CMY117 or CMY101 K2 4 1
and CMY102] and [CMY127 or CMY101 and CMY102]
GKD350 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS] S1 2 1
GKD351 SOIL_PHYSICS_351 Prerequisite/s: [GKD250] S1 1 0.5
GKD370 SOIL_CHEMISTRY_370 Prerequisite/s: [GKD250] S1 2 1
PGW350 SOIL_WATER_RELA.&_IRRIGAT350 S1 2 0.5
Totals for compulsory modules in the first/second quarter 11/11 4/4 39
Third year, second semester:
Code Name Qrt lpw ppw C
AGR361 INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and S2 2 0.5
[PPK251]
CMY283 ANALYTICAL_CHEMISTRY_283 Prerequisite/s: [CMY117 or K3 4 1
CMY101 and CMY102] and [CMY127 or CMY101 and CMY102] CMY285 INORGANIC_CHEMISTRY_285 Prerequisite/s: [CMY117 or K4 4 1

	CMY101 and CMY102] and [CMY127 or CMY101 and CMY102]					
HSC362	DECIDUOUS_POMOLOGY_362 Prerequisite/s: [HSC261] and [PPK251]	S2	2		0.5	14
LIR421	AGRICULTURAL_ENGINEERING_421	S2	3		2	8
PGW361	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s: [BME161] and [BME162]	S2	2		0.5	14
	Totals for compulsory modules in the third/fourth quarter		13/	13 4	4.5/4.5	37/37
	Any subject(s) in the Faculty of Natural and Agricultural Science of department(s).	es af	ter o	cons	ultation	with
	Compulsory credits = (152) Elective credits = (0)				
Fourth vo	ear, first semester:					
Code	Name		Qrt	val	ppw	Crdt
	BIOMETRY_210 Prerequisite/s: [BME120]		S1	4	, ppw	24
	INTRODUCTORY_GEOLOGY_151 Prerequisite/s: [Par 1.2]	1	K1	4	1	8
	PHYSICAL GEOLOGY 152 Prerequisite/s: [Par 1.2]		K2	4	1	8
	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]		S1	3	1	14
	ENVIRONMENTAL BIOPHYSICS 450		S1	2	0.5	16
	WEED SCIENCE 413		S1	2	0.5	14
PGW400	SEMINAR_400		J1	3	0	10
	Totals for compulsory modules in the first/second quarter			18/1	8 4/4	47/47
Fourth ye	ear, second semester:					
Code	Name	Qrt	lpι	N	ppw	Crdt
APS461	CROP_PHYSIOLOGY_461 Prerequisite/s: [GKD250] and [GKD260] and [HSC252] and [HSC261] and [PGW352]	S2	2		0.5	14
GKD460	ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD350]	S2	2		1	14
GLY161	HISTORICAL_GEOLOGY_161 Prerequisite/s: [Par 1.2]	K3	4		1	8
LBU420	PROJECT:LAND_USE_PLANNING_420	S2	3		1	14
PGW400	SEMINAR_400	J1	3		0	10

Electives: GLY162 and any module(s) in the Faculty of Natural and Agricultural Sciences after consultation with the head of department.

Totals for compulsory modules in the third/fourth quarter

Compulsory credits = (154) Elective credits = (0)

A minimum of (614) credits is required to obtain the degree.

Field of study	Dept	Code
BInstAgrar Crop Protection	MBY	03136062

First year	, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150	S1	3	1	16
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3

=10111	Incompanies and	-		-		_	
	ECONOMICS_110		S1	3		0	10
EOT151			K1	2		0	3
	LANGUAGE_PROFICIENCY(2)_152		K2	2		0	3
SCI150	NATURAL_SCIENCE_150		S1	6		1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4		1	8
	Totals for compulsory modules in the first/second quarter			20/2	20 3	3/3	29/29
First yea	r, second semester:						
Code	Name	Qrt	lp	W	ppv	٧	Crdt
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2	2	0.5	,	8
BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2	3	3	1		16
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	2	0		3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	2	0		3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	2	0		3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	2	0		3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2	2	0.5	, [8
	[CMY117] and [MLB111]						
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2	6	6	1		12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1	4	ļ	1		8
	Totals for compulsory modules in the third/fourth quarter		21/	21	4.5/4	.5	32/32
STK110 c	can be taken instead of WTW101. Students who do not comply wit	h th	e ad	lmis	sion		
	ents for STK110 should register for STK113 and STK123.						
	-						
	Compulsory credits = (122) Elective credits = (0)					
Second y	year, first semester:						
Second y Code	/ear, first semester: Name	Qrt	Iр	w	ppv	v	Crdt
Code	Name	Qrt S1	lp ^a	-+	ppv 1	v	Crdt
Code		_	-	-+		V	
Code GKD250	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	_	-	3		V	
Code GKD250 LEK251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH]	S1	3	3	1	v	12
Code GKD250 LEK251 LEK252	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251	S1 K1	3	3	1	v	12 6
Code GKD250 LEK251 LEK252	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	S1 K1 K2	3	3	0 0	v	12 6 6
Code GKD250 LEK251 LEK252 MBY251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s:	S1 K1 K2	3	3 3 2	0 0	v	12 6 6
Code GKD250 LEK251 LEK252 MBY251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS]	S1 K1 K2 S1	3 3 2	3 3 3 2	0 0 1		12 6 6 12
Code GKD250 LEK251 LEK252 MBY251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251	S1 K1 K2 S1	3 3 2 2	3 3 3 2	1 0 0 1		12 6 6 12
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s:	S1 K1 K2 S1	3 3 2 2	3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 0 0 1		12 6 6 12
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150]	S1 K1 K2 S1 S1	3 3 3 2 2 2	3 3 3 2 2 2	1 0 0 1 1 0.5	5	12 6 6 12 12 12
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter	S1 K1 K2 S1 S1	3 3 3 2 2 2	3 3 3 2 2 2	1 0 0 1 1 0.5	5	12 6 6 12 12 12 6
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2	3 3 3 2 2 2	1 0 0 1 1 0.5	5.5	12 6 6 12 12 12 6
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter //ear, second semester: Name	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2 2 0 12/	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 0 0 1 1 0.5	5	12 6 6 12 12 12 12 6 36/30
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter (ear, second semester:	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2 2 2 12/	33 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 2 1 1 1 2 1	1 0 0 1 1 0.5	5 5.5	12 6 6 12 12 12 12 6 36/30
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter //ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] are	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2 2 2 12/	33 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 2 1 1 1 2 1	1 0 0 1 1 0.5	5 5.5	12 6 6 12 12 12 12 6 36/30
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter rear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] ard [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2 2 2 12/	33 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 2 1 1 1 2 1	1 0 0 1 1 0.5	5 5.5	12 6 6 12 12 12 12 6 36/30
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code BME120	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter /ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics	S1 K1 K2 S1 S1 K1	3 3 3 2 2 2 2 2 12/	33 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 2 1 1 1 2 1	1 0 0 1 1 0.5 1 4.5/3	5 5.5	12 6 6 12 12 12 12 6 36/30
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code BME120	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter //ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.]	S1 K1 K2 S1 S1 K1 K1 K1 S1 K1 S1 S1 K1	3 3 3 2 2 2 2 12/	33 33 33 33 33 22 22 22 22 22 4	1 0 0 1 1 0.5 1 4.5/3	5 5.5 pw	12 6 6 12 12 12 6 36/30 Crdt 16
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second y Code BME120	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter //ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.] SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 G	S1 K1 K2 S1 S1 K1 K1 K1 S1 K1 S1 S1 K1	3 3 3 2 2 2 2 2 2 12/ S2	3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 4 4 4 4	1 0 0 1 1 0.5 1 4.5/3	pw 1	12 6 6 12 12 12 6 36/30 Crdt 16
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second Code BME120 GKD260 GTS124	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter //ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.] SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 G GENETICS_124 Prerequisite/s: [This module may not be taken be	S1 K1 K2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	3 3 3 2 2 2 2 2 2 12/ S2	3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 4 4 4 4	1 0 0 1 1 0.5 1 4.5/3	pw 1	12 6 6 12 12 12 6 36/30 Crdt 16
Code GKD250 LEK251 LEK252 MBY251 PLG251 PPK251 SCI153 Second Code BME120 GKD260 GTS124 LEK220	Name INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH] INTRTO_FARM_MANAGEMENT_251 INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251] GROWTH_DIVERS.&CONTROL/BAC.251 Prerequisite/s: [MBY161 GS] INTROCROP_PROTECTION_251 SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161 or BLG150] ACADEMIC_PROFICIENCY_153 Totals for compulsory modules in the first/second quarter /ear, second semester: Name BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.] SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 G GENETICS_124 Prerequisite/s: [This module may not be taken b students registered for a BSc degree.]	S1 K1 K2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	3 3 3 2 2 2 2 12/ 2 12/ S2 S2	3 4 S S S S S S S S S S S S S S S S S S	1 0 0 1 1 0.5 1 4.5/3	pw 1	12 6 6 12 12 12 6 36/30 Crdt 16

			1		1 .	_
	EPIDEMIOLOGY_261	_	32	2	1	8
SEM161	SEMINAR_161	K	(3	3	0	4
	Totals for compulsory modules in the third/fourth quarter			19/16	4/4	36/32
	Compulsory credits = (134) Elective credits = (0))				
	r, first semester:	1,				0 11
Code	Name	_	Qrt	lpw	ppw	Crdt
	PRIMARY_FOOD_CROPS_313	_	S1	2	0.5	14
	NURSERY_MANAGEMENT_351		S1	2	0.5	14
	ENVIRONMENTAL_MICROBIOLOGY_352 Prerequisite/s: [MBY16		S1	2	1	18
	GENERAL_PLANTPATHOLOGY_351	_	S1	2	1	18
ZEN355	INSECT_DIVERSITY_355	J l	K 2	4	2	18
	Totals for compulsory modules in the first/second quarter			6/12	2.5/5	25/50
Third vea	ır, second semester:					
Code	Name	Qı	rt	lpw	ppw	Crdt
	TREE GROWTH & DEVELOPMENT 261 Prerequisite/s:	K:	_	2	0.5	6
	[GKD250] and [GKD260 #] and [HSC252]	' '		_	0.0	
LKM262	AGRICULTURAL_CLIMATOLOGY_262	Sź	2	2	0.5	12
	GROWTH ACT.& CONTROL/FUNGI 261 Prerequisite/s:	S	-	2	1	12
_	[MBY161]					
PGW361	EXPERIMENTAL_DESIGN_&_ANAL.361 Prerequisite/s: [BME161]	Sź	2	2	0.5	14
	and [BME162]					
PLG364	HOST_PATHOGEN_INTERACTIONS_364	Sź	2	2	1	18
ZEN365	INSECT_PEST_MANAGEMENT_365	Κ	4	4	2	18
	Totals for compulsory modules in the third/fourth quarter		1	0/12	3.5/5	34/46
	Compulsory credits = (155) Elective credits = (0)				
Fourth ye	ear, first semester:					
Code	Name	Qrt	Ιp	w	ppw	Crdt
AGV410	AGRARIAN_EXTENSION_410	S1	2	2	0	20
ARD480	AFRIC.&_RURAL_DEVELOP.STUD.480	J1	2	2	0	20
OKW413	WEED_SCIENCE_413	S1	2	2	0.5	14
PGW400	SEMINAR_400	J1	3	3	0	10
PLG462	RESEARCH_PROJECT_462	J1	1		1	10
	Totals for compulsory modules in the first/second quarter		10/	10 1.	.5/1.5	37/37
Possible of HSC450.	optional modules credits (14). Possible optional modules from the f	ollov	vin	g: HS	C350	or
	ear, second semester:					
Code		Qrt	lp	w	ppw	Crdt
	COMMUNICATION_421	S2	2	_	0	20
	AFRIC.&_RURAL_DEVELOP.STUD.480	J1	2		0	20
	SEMINAR 400	J1	3		0	10
	PLANT_DISEASE_CONTROL_363	S2	2		1	18
	NURSERY & SEED PATHOLOGY 461	S2	1	_	0.5	10
	RESEARCH PROJECT 462	J1	1		1	10
1 LO402	NEGENITOTI_T NOGEOT_402	υI	- 1			10

Totals for compulsory modules in the third/fourth quarter	11/11 2.5/2.5 44/44
Compulsory credits = (162) Elective credits = (162)	4)
A minimum of (587) credits is required to obtain the degree.	

Field of study	Dept	Code
BInstAgrar Food Production and Processing	VDW	03136072

	Processing				_	
First year	, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150		S1	3	1	16
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
EKN110	ECONOMICS_110		S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
SCI150	NATURAL_SCIENCE_150		S1	6	1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4	1	8
	Totals for compulsory modules in the first/second quarter		2	0/20	3/3	29/29
First year	, second semester:					
Code	Name	Qrt	lpw	p	pw	Crdt
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2	0	.5	8
BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2	3		1	16
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2		0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0		3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2		0	3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2	0	.5	8
	[CMY117] and [MLB111]					
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2	6		1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1	4		1	8
	Totals for compulsory modules in the third/fourth quarter		21/21	1 4.5	/4.5	32/32
STK110 c	an be taken instead of WTW101. Students not complying with mi	nimu	ım rec	quirer	nents	s for
STK110 m	nust register for STK113 and STK123.					
	Compulsory credits = (122) Elective credits = (0)				
Second y	ear, first semester:					
Code	Name	Qrt	lpw	р	pw	Crdt
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	S1	3		1	12
	[CMY117 GS] or [TDH]					
	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1	2	0	.5	12
-	INTRTO_FARM_MANAGEMENT_251	K1	3		0	6
	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3		0	6
-	BUSINESS_MANAGEMENT_156	K2	3		0	5
PLG251	INTROCROP_PROTECTION_251	S1	2		1	12
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s:	S1	2	0	.5	12

	[BOT161 or BLG150]						
	NUTRITION_255	K1		3		0	6
	NUTRITION_256	K2	_	3		0	6
VKU210	ANIMAL_SCIENCE_210	S1		1	0	.5	6
	Totals for compulsory modules in the first/second quarter		16	/19	3.5	/3.5	39/44
	rear, second semester:			,	_		
Code	Name	_	Qrt	lpv	٧	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and		S2	4		1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%						
	(SG) Grade 12 Mathematics or an equivalent Mathematics						
LBUISCO	achievement.] AGROCLIMATOLOGY_260	-	S2	3	-	1	12
	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and	_	S2	3	-	0	12
LEN220	[LEK252] and [LEK251] and [LEK251] [LEK251] [LEK251] [LEK251]	a	52	3		U	12
DHD364	RURAL HOUSEHOLD DEVELOPM. 264	+	S2	1	\dashv	2	10
	SEMINAR 161	_	S2 K3	3	┪	0	4
SEIVITOT	Totals for compulsory modules in the third/fourth quarter		NO	14/1	11	4/4	29/25
	Totals for compulsory modules in the tillia/fourth quarter			14/	' '	4/4	23/23
-	Compulsory credits = (137) Elective credits = (U)					
	Compulsory Credits = (137) Elective Credits = (υ)					
Third yes	ar, first semester:						
Code	Name		Qrt	lpv	v	ppw	Crdt
	PRIMARY_FOOD_CROPS_313	_	S1	2	_	0.5	14
	AGRARIAN EXTENSION 410	_	S1	2	_	0.0	20
	LIVESTOCK_BREEDING_311 Prerequisite/s: [TDH]	_	S1	2	_	0.5	10
	AGRICULTURAL ENGINEERING 410	_	S1	2	7	2	8
	ENTREPRENEURSHIP 355	_	K1	3	Ħ	0	10
	ENTREPRENEURSHIP 356	_	K2			0	10
	Totals for compulsory modules in the first/second quarter			11/1	_	3/3	36/36
Third year	ar, second semester:						
Code	Name		Qrt	val	v	ppw	Crdt
AGV421	COMMUNICATION_421		S2	2		0	20
	LIVESTOCK_PRODUCTION_321 Prerequisite/s: [TDH]	_	S2	2		0	10
	AGRICULTURAL_ECONOMICS_320	_	S2	3		2	18
LIR422	AGRICULTURAL_ENGINEERING_422	T	S2	3	7	1	8
OBS365	ENTREPRENEURSHIP_365	T	K3	3		0	10
OBS366	ENTREPRENEURSHIP_366	T	K4	3		0	10
	Totals for compulsory modules in the third/fourth quarter			13/1	13	3/3	38/38
	·						
	Compulsory credits = (148) Elective credits = (0)					
Fourth ye	ear, first semester:						
Code	Name	Qrt	Ιŗ	ow	р	pw	Crdt
ARD480	AGRIC.&_RURAL_DEVELOP.STUD.480	J1		2		0	20
ARD482	RESOURCES_AND_DEVELOPMENT_482	S1		3		0	20
FPP451	CHEM/MICROBIOL_ASPEC/FOOD_451 Prerequisite/s: [Third-	S1		2		1	20
	year status in Food Science or TDH]						
FPP452	FOOD_PROC.EQUIP/OPERATIONS_452 Prerequisite/s: [Third-	S1		3	0	.5	20

	year status in Food Science or TDH]				
	Totals for compulsory modules in the first/second quarter	10/1	0 1.5	5/1.5	40/40
Fourth y	ear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
ARD480	AGRIC.&_RURAL_DEVELOP.STUD.480	J1	2	0	20
FPP461	APPRO.FOOD_PRES.VATION_TECH461 Prerequisite/s: [FST451 G and [FST452 GS] or [TDH]	S] K3	2	0.5	20
FPP462	APPRO.FOOD_PROCESTECHNO462 Prerequisite/s: [FST451 G and [FST452 GS] or [TDH]	S] K4	2	0.5	20
FPP463	PROJECT_463 Prerequisite/s: [FST451 GS] and [FST452 GS] or [TDH]	S2	2	0.5	20
	Totals for compulsory modules in the third/fourth quarter		6/6	1/1	40/40
		,		,	
	Compulsory credits = (160) Elective credits = (0)				
A minim	um of (567) credits is required to obtain the degree.				

Field of study	Dept	Code
BlnstAgrar Land-use Planning	PGW	03136051

First year	, first semester:						
Code	Name		Qrt	lpv	٧	ppw	Crdt
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150		S1	3		1	16
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2		0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2		0	3
EKN110	ECONOMICS_110		S1	3		0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2		0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2		0	3
SCI150	NATURAL_SCIENCE_150		S1	6		1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4		1	8
	Totals for compulsory modules in the first/second quarter			20/2	20	3/3	29/29
First year	, second semester:						
Code	Name	Qrt	Ιp	W	pp	w	Crdt
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2	2	0.5		8
BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2	3	-	1		16
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	•	0)	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	<u>.</u>	0)	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	2	0)	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	2	0)	3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] and [MLB111]	S2	2	!	0.	5	8
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2	6	;	1		12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1	4		1		8
	Totals for compulsory modules in the third/fourth quarter		21/	21 4	4.5/	4.5	32/32
	an be taken instead of WTW101. Students who do not comply witnts for STK110 should register for STK113 and STK123.	th the	e ad	miss	sion	1	
	Compulsory credits = (122) Elective credits = (0)					

Code	/ear, first semester:					
	Name	Qrt	Iр	w	ppw	Crdt
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117 GS] or [TDH]	S1	;	3	1	12
HSC252	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1	١.	2	0.5	12
LEK251	INTRTO_FARM_MANAGEMENT_251	K1		3	0	6
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2		3	0	6
PLG251	INTRO. CROP PROTECTION 251	S1		2	1	12
	SUSTAINABLE PRODUCTION SYS.251 Prerequisite/s:	S1		2	0.5	12
	[BOT161 or BLG150]	-				.=
WDE210		S1		2	0.5	12
	Totals for compulsory modules in the first/second quarter		14	/14	3.5/3.5	36/36
Second y	/ear, second semester:					
Code	Name	Qrt	Ιp)W	ppw	Crdt
APZ221	PRODUCTION_PHYSIOLOGY_221	S2	-;	3	0.5	12
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS]	S2		4	1	16
	and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.]					
GKD260	SOIL_FERTIL.&_PLANT_NUTRIT.260 Prerequisite/s: [GKD250 GS]	S2	;	3	1	12
LBU260	AGROCLIMATOLOGY_260	S2		3	1	12
	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and [LEK252 or EKN113 and/or EKN120]	S2	;	3	0	12
SEM161	SEMINAR_161	К3		3	0	4
	Totals for compulsory modules in the third/fourth quarter		19	/16	3.5/3.5	36/32
	Compulsory credits = (140) Elective credits = (0)				
Third vea	ur. first semester:					
	ar, first semester:	10	Ort	lpw	ppw	Crdt
Code	Name	_	_	lpw	ppw 0.5	Crdt
Code AGR313	Name PRIMARY_FOOD_CROPS_313		S1	2	0.5	14
Code AGR313 AGV410	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410	9	_			
Code AGR313 AGV410 GKD350	Name PRIMARY_FOOD_CROPS_313	S [] S	S1 S1	2	0.5	14 20
Code AGR313 AGV410 GKD350	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS	S [] S	S1 S1 S1	2 2 2	0.5 0 1	14 20 14 18
Code AGR313 AGV410 GKD350 PLG351	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter	S [] S	S1 S1 S1	2 2 2	0.5 0 1	14 20 14 18
Code AGR313 AGV410 GKD350 PLG351	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GSGENERAL_PLANTPATHOLOGY_351	[S1 S1 S1	2 2 2	0.5 0 1 1 2.5/2.5	14 20 14 18
Code AGR313 AGV410 GKD350 PLG351 Third yea Code	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester:		S1 S1 S1	2 2 2 2 8/8	0.5 0 1	14 20 14 18 33/33
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name	[S	S1 S1 S1 S1 Qrt	2 2 2 2 8/8	0.5 0 1 1 2.5/2.5	14 20 14 18 33/33 Crdt
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK257]	[S	S1 S1 S1 S1 Qrt	2 2 2 8/8 lpw 2 2	0.5 0 1 1 2.5/2.5 ppw 0.5	14 20 14 18 33/33 Crdt 14 20
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361 AGV421	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK25:COMMUNICATION_421	[S	S1 S1 S1 S1 Qrt	2 2 2 8/8 lpw 2 2 4/4	0.5 0 1 1 2.5/2.5 ppw 0.5 0 0.5/0.5	14 20 14 18 33/33 Crdt 14 20 17/17
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361 AGV421	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK25-COMMUNICATION_421 Totals for compulsory modules in the third/fourth quarter : Any subject(s) in the Faculty of Natural and Agricultural Science	[S1 S1 S1 S1 Qrt	2 2 2 8/8 lpw 2 2 4/4	0.5 0 1 1 2.5/2.5 ppw 0.5 0 0.5/0.5	14 20 14 18 33/33 Crdt 14 20 17/17
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361 AGV421	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK25] COMMUNICATION_421 Totals for compulsory modules in the third/fourth quarter : Any subject(s) in the Faculty of Natural and Agricultural Science s of department.	[S1 S1 S1 S1 Qrt	2 2 2 8/8 lpw 2 2 4/4	0.5 0 1 1 2.5/2.5 ppw 0.5 0 0.5/0.5	14 20 14 18 33/33 Crdt 14 20 17/17
Code AGR313 AGV410 GKD350 PLG351 Third yea Code AGR361 AGV421 Electives:	Name PRIMARY_FOOD_CROPS_313 AGRARIAN_EXTENSION_410 SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS GENERAL_PLANTPATHOLOGY_351 Totals for compulsory modules in the first/second quarter ar, second semester: Name INDUSTRIAL_CROPS_361 Prerequisite/s: [HSC252] and [PPK25] COMMUNICATION_421 Totals for compulsory modules in the third/fourth quarter : Any subject(s) in the Faculty of Natural and Agricultural Science s of department.	[S1 S1 S1 S1 Qrt	2 2 2 8/8 lpw 2 2 4/4	0.5 0 1 1 2.5/2.5 ppw 0.5 0 0.5/0.5	14 20 14 18 33/33 Crdt 14 20 17/17

ARD480	AGRIC.&_RURAL_DEVELOP.STUD.480		J1	2	0	20												
ARD482	RESOURCES_AND_DEVELOPMENT_482		S1	3	0	20												
LBU410	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]		S1	3	1	14												
	Totals for compulsory modules in the first/second quarter			8/8	1/1	27/27												
Fourth ye	ear, second semester:																	
Code	Name	Qrt	lpw	р	pw	Crdt												
ARD480	AGRIC.&_RURAL_DEVELOP.STUD.480	J1	2		0	20												
	ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD350]	S2	2		1	14												
GKD480	RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350]	S2	3		1	14												
LBU420	PROJECT:LAND_USE_PLANNING_420	S2	3		1	14												
WDE460	PRODSYS_V1:INT/PLA&ANIMPRO_460	S2	S2 2		S2 2		S2 2		S2 2		S2 2		S2 2		2		0.5	12
	Totals for compulsory modules in the third/fourth quarter		12/12		5/3.5	37/37												
	Any subject(s) in the Faculty of Natural and Agricultural Science of department.	es aft	er co	nsult	ation	with												
	Compulsory credits = (128) Elective credits =	(32)																
	Comparatify troutes = (120) Elective creates =	()																
Δ minimu	m of (557) credits is required to obtain the degree.																	
	c. (cc.) c.cac .c .cqaca to obtain the degree.																	

Field of study	Dept	Code
BInstAgrar Plant Production	PGW	03136063

Students	who want to enroll for the main subjects: Agronomy, Horticulture	or Pa	astu	re Scie	ence.	should
	register for the BInstAgrar Plant Production degree				,	
First year	, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150		S1	3	1	16
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
EKN110	ECONOMICS_110		S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
SCI150	NATURAL_SCIENCE_150		S1	6	1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4	1	8
	Totals for compulsory modules in the first/second quarter			20/20	3/3	29/29
First year	, second semester:					
Code	Name	Qrt	lp۱	w p	pw	Crdt
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2).5	8
BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2	3		1	16
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2		0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2		0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2		0	3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2).5	8
	[CMY117] and [MLB111]					
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2	6		1	12

VA/TVA/4 O4	MATUEMATICS 404 Proventicite (c. [Der 4.0]	14	T 4	т.	. 1	_			
WIWIUI	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1			1	8			
_	Totals for compulsory modules in the third/fourth quarter		21/21	_		32/32			
	an be taken instead of WTW101. Students not complying with mi	nimu	ım rec	luirer	nents	s for			
S1K110 m	STK110 must register for STK113 and STK123.								
	Compulsory credits = (122) Elective credits = (0)							
	ear, first semester:	<u> </u>		1		O 1:			
Code	Name	Qrt	lpw	_	pw	Crdt			
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	S1	3		1	12			
LICCOEO	[CMY117 GS] or [TDH]	S1	_		_	12			
-	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	_	2	_	.5				
	INTRTO_FARM_MANAGEMENT_251	K1	3		0	6			
	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3	_	_	6			
	INTROCROP_PROTECTION_251	S1	2		1	12			
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s:	S1	2	1 0	.5	12			
WDE340	[BOT161 or BLG150] VELD MANAGEMENT PRACTICES 210	S1	2	_	.5	12			
WDEZIO		SI		_	_				
0	Totals for compulsory modules in the first/second quarter		14/14	3.5	/3.5	36/36			
	ear, second semester:	<u> </u>		_		0 1			
Code	Name	Qrt			pw	Crdt			
	PRODUCTION_PHYSIOLOGY_221	S2	3	_	.5	12			
	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS]	S2	4		1	16			
	and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics								
	achievement.]								
	SOIL FERTIL.& PLANT NUTRIT.260 Prerequisite/s: [GKD250	S2	3	+	1	12			
	GSI	32	٦			12			
	AGROCLIMATOLOGY 260	S2	3	1	1	12			
	AGRICULTURAL ECONOMICS 220 Prerequisite/s: [LEK251]	S2	3		0	12			
	and [LEK252 or EKN113 and/or EKN120]		ľ						
	SEMINAR 161	КЗ	3		0	4			
	Totals for compulsory modules in the third/fourth quarter		19/16	3.5	/3.5	36/32			
	1								
	Compulsory credits = (140) Elective credits = (0)							
		-,							
Third vea	ır, first semester:								
Code	Name		Qrt	lpw	ppw	Crdt			
-	AGRARIAN EXTENSION 410		S1	2	0	20			
	SOIL_CLASSIF.&_SURVEYING_350 Prerequisite/s: [GKD250 GS	31	S1	2	1	14			
	Totals for compulsory modules in the first/second quarter	- 1		4/4	1/1	17/17			
	The second secon					,			
Flectives:	HSC350, HSC352, AGR313, WDE350, APZ311, APZ313.								
	r, second semester:								
Code	Name		Qrt	lpw	ppw	Crdt			
	COMMUNICATION_421		S2	ipw 2	ppw 0	20			
-	INSECT_PEST_MANAGEMENT_365		K4	4	2	18			
ZEN303	Totals for compulsory modules in the third/fourth quarter		114	2/6	0/2	10/28			
Flectives		ill no	ade o						
LIGULIVES.	Electives: AGR361, HSC261, APZ321, APZ324, APZ325. Pasture option still needs one module and								

the Agronomy/Horticulture option needs three modules that can be made up of any modules(s) in the Faculty of Natural and Agricultural Sciences after consultation with the heads of department.

Electives: HSC362, APZ321, APZ324, APZ325. Agronomy/Horticulture option needs one module that can be made up of any module in the Faculty of Natural and Agricultural Sciences after consultation with the heads of department.

Compulsory credits = (72) Elective credits = (72)						
Code Name Qrt Ipw Ppw ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 ARD482 RESOURCES_AND_DEVELOPMENT_482 S1 3 0 LBU410 LAND_USE_PLANNING_410 Prerequisite/s: [GKD250] S1 3 1 OKW413 WEED_SCIENCE_413 S1 2 0.5 Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5 Fourth year, second semester: Code Name Qrt Ipw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: S2 2 1 [GKD250] and [GKD350] RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1				72)	Compulsory credits = (72) Elective credits = (
ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 ARD482 RESOURCES_AND_DEVELOPMENT_482 S1 3 0 LBU410 LAND_USE_PLANNING_410 Prerequisite/s: [GKD250] S1 3 1 OKW413 WEED_SCIENCE_413 S1 2 0.5 Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5 Fourth year, second semester: Code Name Ort pw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: S2 2 1 [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1					year, first semester:	Fourth ye
ARD482 RESOURCES_AND_DEVELOPMENT_482 S1 3 0 LBU410 LAND_USE_PLANNING_410 Prerequisite/s: [GKD250] S1 3 1 OKW413 WEED_SCIENCE_413 S1 2 0.5 Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5 Fourth year, second semester: Code Name Qrt Ipw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: S2 2 1 [GKD250] and [GKD350] GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	Crdt	Ppw	lpw	Qrt	Name	Code
LBU410 LAND_USE_PLANNING_410 Prerequisite/s: [GKD250] S1 3 1 OKW413 WEED_SCIENCE_413 S1 2 0.5 Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5 Fourth year, second semester: Code Name Qrt Ipw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD250] and [GKD350] S2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	20	0	2	J1) AGRIC.&_RURAL_DEVELOP.STUD.480	ARD480
OKW413 WEED_SCIENCE_413 S1 2 0.5 Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5 Fourth year, second semester: Code Name Ort pw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD250] and [GKD350] S2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	20	0	3	S1	RESOURCES_AND_DEVELOPMENT_482	ARD482
Totals for compulsory modules in the first/second quarter 10/10 1.5/1.5	14	1	3	S1	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]	LBU410
Fourth year, second semester: Code Name Ort lpw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 \$2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD350] \$2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] \$2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 \$2 3 1	14	0.5	2	S1	3 WEED_SCIENCE_413	OKW413
Code Name Qrt lpw Ppw AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD250] and [GKD250] and [GKD250] S2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	34/34	1.5/1.5	10/10		Totals for compulsory modules in the first/second quarter	
AGR460 PROD.SYST.11:_VEGETABLE_CR.460 S2 2 0.5 ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD250] and [GKD350] S2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1					year, second semester:	Fourth ye
ARD480 AGRIC.&_RURAL_DEVELOP.STUD.480 J1 2 0 GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: [GKD250] and [GKD350] S2 2 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	Crdt	Ppw	lpw	Qrt	Name	Code
GKD460 ENVIRONMENTAL_MANAGEMENT_460 Prerequisite/s: S2 2 1 [GKD250] and [GKD350] RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	12	0.5	2	S2	PROD.SYST.11:_VEGETABLE_CR.460	AGR460
[GKD250] and [GKD350] S2 3 1 GKD480 RESOURCE_SURVEYS_480 Prerequisite/s: [GKD250] and [GKD350] S2 3 1 LBU420 PROJECT:LAND_USE_PLANNING_420 S2 3 1	20	0	2	J1	AGRIC.&_RURAL_DEVELOP.STUD.480	ARD480
[GKD350]	14	1	2	S2	;	
	14	1	3	S2		
	14	1	3	S2	PROJECT:LAND_USE_PLANNING_420	LBU420
Totals for compulsory modules in the third/fourth quarter 12/12 3.5/3.5	37/37	3.5/3.5	12/12		Totals for compulsory modules in the third/fourth quarter	
Electives: HSC460, WDE460, WDE481 or any module(s) in the Faculty of Natural and Agricul Sciences after consultation with the heads of department.	tural	Agricult	ural and	f Natu		

Compulsory credits = (142) Elective credits = (18)

A minimum of (566) credits is required to obtain the degree.

Field of study	Dept	Code
BinstAgrar Rural Development Management	LEK	03136082

First year, first semester:							
Code	Name	(Qrt	lpw	ppw	Crdt	
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150		S1	3	1	16	
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3	
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3	
EKN110	ECONOMICS_110		S1	3	0	10	
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3	
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3	
SCI150	NATURAL_SCIENCE_150		S1	6	1	12	
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4	1	8	
	Totals for compulsory modules in the first/second quarter 20/20 3/3 29/29						
First year	First year, second semester:						
Code	Name	Qrt lpw ppw C				Crdt	

riat and	Agric Odichoca 2000						
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2	(0.5	8	
BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2	3		1	16	
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2		0	3	
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2		0	3	
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2		0	3	
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2		0	3	
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s:	S2	2	(0.5	8	
	[CMY117] and [MLB111]						
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2	6		1	12	
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1	4		1	8	
	Totals for compulsory modules in the third/fourth quarter		21/2	1 4.	5/4.5	32/32	
STK110 c	an be taken instead of WTW101. Students who do not comply wit	th th	e adr	nissic	n		
requireme	nts for STK110, should register for STK113 and STK123.						
Compulsory credits = (122) Elective credits = (0)							
Second y	ear, first semester:						
Code	Name		Qrt	lpw	ppw	Crdt	
CKDara	INTRODUCTORY COIL COIRNICE OF Drago cuicita/a: [CMV/4]	7	C4	^		40	

Secona y	ear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
GKD250	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s: [CMY117	S1	3	1	12
	GS] or [TDH]				
HSC252	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1	2	0.5	12
LEK251	INTRTO_FARM_MANAGEMENT_251	K1	3	0	6
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	3	0	6
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s: [BOT161	S1	2	0.5	12
	or BLG150]				
VKU210	ANIMAL_SCIENCE_210	S1	1	0.5	6
WDE210	VELD_MANAGEMENT_PRACTICES_210	S1	2	0.5	12
	Totals for compulsory modules in the first/second quarter		13/13	3/3	33/33

Second y	vear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] and [STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50% (SG) Grade 12 Mathematics or an equivalent Mathematics achievement.]	S2	4	1	16
	AGRICULTURAL_ECONOMICS_220 Prerequisite/s: [LEK251] and [LEK252 or EKN113 and/or EKN120]	S2	3	0	12
SEM161	SEMINAR_161	K3	3	0	4
	Totals for compulsory modules in the third/fourth quarter		10/7	1/1	18/14

Electives can be chosen from: APZ221, GKD223, RHD264, HSC261 and other modules in consultation with the head of department.

Compulsory credits = (98) Elective credits = (46)

Third year, first semester:						
Code	Name	Qrt	lpw	ppw	Crdt	
AGV410	AGRARIAN_EXTENSION_410	S1	2	0	20	
LEK310	AGRICULTURAL_ECONOMICS_310 Prerequisite/s: [LEK251 or	S1	3	0	12	
	EKN110] and [LEK252 or EKN120]					

LIR410	AGRICULTURAL_ENGINEERING_410	5	31	2 2	8
	Totals for compulsory modules in the first/second quarter		7	7/7 2/	2 20/20
Third yea	ar, second semester:				
Code	Name	(Qrt I	ow pp	w Crdt
AGV421	COMMUNICATION_421	5	32	2 (20
LEK320	AGRICULTURAL_ECONOMICS_320	3	32	3 2	18
LIR422	AGRICULTURAL_ENGINEERING_422	60	32	3 1	8
	Totals for compulsory modules in the third/fourth quarter		8	3/8	3 23/23
	Compulsory credits = (86) Elective credits = (66)				
	ear, first semester:		_		
Code	Name	Qrt	lpv		
	AGRIC.&_RURAL_DEVELOP.STUD.480	J1	2	0	
	RESOURCES_AND_DEVELOPMENT_482	S1	3	0	
LBU410	LAND_USE_PLANNING_410 Prerequisite/s: [GKD250]	S1	3	1	14
LEK485	PROJECT_PLANNING_&_APPR485	S1	3	0	20
	Totals for compulsory modules in the first/second quarter		11/	11 1/	1 37/37
Fourth y	ear, second semester:				
Code	Name	Q	rt lp	w pp	w Crdt
	AGRIC.&_RURAL_DEVELOP.STUD.480	J	1 2	2 0	20
FPP461	APPRO.FOOD_PRES.VATION_TECH461 Prerequisite/s: [FST451 GS] and [FST452 GS] or [TDH]	K	3 2	0.	5 20
LEK424	RESOURCE_ECONOMICS_424 Prerequisite/s: [LEK251] and [LEK252]	K	4 3	3 0	10
	Totals for compulsory modules in the third/fourth quarter	_	4/	5 0.5	/0 30/20
			_	-	
	Compulsory credits = (124) Elective credits = (28))			

Field of study	Dept	Code
BinstAgrar Rural Household Development	VBR	03136064

First year	, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BLG150	INTRODUCTORY_PLANT_BIOLOGY_150		S1	3	1	16
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
EKN110	ECONOMICS_110		S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
SCI150	NATURAL_SCIENCE_150		S1	6	1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]		J1	4	1	8
	Totals for compulsory modules in the first/second quarter			20/20	3/3	29/29
First year	, second semester:					
Code	Name	Qrt	lpν	w p	pw	Crdt
AGC161	INTRODUCTORY_AGRICULTURE_161	S2	2	! (0.5	8

Third year, first semester:

BLG160	INTRODUCTORY_ANIMAL_BIOL.160	S2];	3	1	16
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	:	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	:	2	0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	:	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	:	2	0	3
MBY161	INTRODUCTION_TO_MICROBIOLO.161 Prerequisite/s: [CMY117] and [MLB111]	S2	1	2	0.5	8
SCI160	NATURAL_SCIENCE_160 Prerequisite/s: [SCI150]	S2		6	1	12
WTW101	MATHEMATICS_101 Prerequisite/s: [Par 1.2]	J1	-	4	1	8
	Totals for compulsory modules in the third/fourth quarter		21	/21 4	.5/4.5	32/32
STK110 d	can be taken instead of WTW101. Students who do not comply wit	h th	e ad	dmiss	ion	
requireme	ents for STK110, should register for STK113 and STK123.					
	Compulsory credits = (122) Elective credits = (0)				
Second :	year, first semester:					
Code	Name	Qrt	Ir	w	ppw	Crdt
	INTRODUCTORY_SOIL_SCIENCE_250 Prerequisite/s:	S1	-	3	1	12
0.12200	[CMY117 GS] or [TDH]	•			Ċ	
HSC252	CROP_PRODUCTION_252 Prerequisite/s: [BOT161 or BLG150]	S1		2	0.5	12
LEK251	INTRTO_FARM_MANAGEMENT_251	K1	;	3	0	6
LEK252	INTR.TO_AGRICPRODECON252 Prerequisite/s: [LEK251]	K2	,	3	0	6
PPK251	SUSTAINABLE_PRODUCTION_SYS.251 Prerequisite/s:	S1	:	2	0.5	12
	[BOT161 or BLG150]					
VDS210	FOODS_210	S1	,	3	1	16
VKU210	ANIMAL_SCIENCE_210	S1		1	0.5	6
	Totals for compulsory modules in the first/second quarter		14	/14 3	3.5/3.5	35/35
Second y	year, second semester:					
Code	Name	_	Qrt	lpw	ppw	Crdt
BME120	BIOMETRY_120 Prerequisite/s: [STK113 GS] and [STK113 GS] are		S2	4	1	16
	[STK123 GS] and [STK123 GS] and [Or at least 40% (HG) or 50%)				
	(SG) Grade 12 Mathematics or an equivalent Mathematics					
KED220	achievement.] CULTURAL EATING PATTERNS 220	-	S2	3	0	8
	AGROCLIMATOLOGY 260	_	S2	3	1	12
	AGRICULTURAL ECONOMICS 220 Prerequisite/s: [LEK251] and	_	S2	3	0	12
LLINZZU	[LEK252 or EKN113 and/or EKN120]	٦	52	3	ľ	12
RHD262	RURAL HOUSEHOLD DEVELOPM. 262	_	K4	2	1	4
	RURAL_HOUSEHOLD_DEVELOPM264	-+	S2	1	2	10
	SEMINAR 161	-+	K3	3	0	4
	FOODS_221 Prerequisite/s: [VDS210]		S2	3	1	16
	Totals for compulsory modules in the third/fourth quarter			20/19	9 5/6	41/41
	who have passed STK110 must register for ERG281and ERG282	inst	ead	of Bl	ME161	and
BME162.						
	Compulsory credits = (152) Elective credits = (0)				

Code	Name	Qrt	i lp	W	pp	w	Crdt
AGR313	PRIMARY_FOOD_CROPS_313	S1	1 2	_	0.5	-	14
	AGRARIAN EXTENSION 410	S1	1 2	2	0		20
	AGRICULTURAL ENGINEERING 410	S1	2	2	2		8
RHD351	RURAL HOUSEHOLD DEVELOPM. 351 Prerequisite/s:	S1	_	1	1		18
	[RHD264]						
VDG255	NUTRITION_255	K1	3	3	0		6
VDG256	NUTRITION_256	K2	3	3	0		6
	Totals for compulsory modules in the first/second quarter		13/	/13	3.5/	3.5	36/36
Third yea	r, second semester:						
Code	Name	Qrt	lр	W	ppw		Crdt
AGV421	COMMUNICATION_421	S2	2	2	0		20
LEK320	AGRICULTURAL_ECONOMICS_320	S2	3	3	2		18
LIR422	AGRICULTURAL_ENGINEERING_422	S2	3	3	1		8
VDG363	NUTRITION_363 Prerequisite/s: [VDG255] and [VDG256]	K3	3	3	1		10
VDS363	FOODS_363 Prerequisite/s: [VDS251] and [VDS252] and	S2	3	3	1		15
	[VDS261] and [VDS262]						
	Totals for compulsory modules in the third/fourth quarter		14/	/11	5/4	40	.5/30.5
	Compulsory credits = (143) Elective credits =	(0)					
Fourth ye	ear, first semester:						
Code	Name		Qrt	lpw	/ p	pw	Crdt
	AGRIC.&_RURAL_DEVELOP.STUD.480		J1	2		0	20
ARD482	RESOURCES_AND_DEVELOPMENT_482		S1	3		0	20
RHD480	RURAL_HOUSEHOLD_DEVELOPM480 Prerequisite/s: [RHD3:	51]	S1	3		1	20
VDG483	NUTRITION_483 Prerequisite/s: [KEP261] and [KEP262] and		S1	3		0	20
	[VDG255] and [VDG256] and [VDG363]						
	Totals for compulsory modules in the first/second quarter			11/1	1 1	/1	40/40
Fourth ye	ear, second semester:						
Code	Name		Q		_	pw	Crdt
	AGRIC.&_RURAL_DEVELOP.STUD.480		J	_	_	0	20
FPP461	APPRO.FOOD_PRES.VATION_TECH461 Prerequisite/s: [FST45	1 GS	S] K	3	2 ().5	20
	and [FST452 GS] or [TDH]		_	_	_		
FPP462	APPRO.FOOD_PROCESTECHNO462 Prerequisite/s: [FST45	1 G	S] K	4 :	2 ().5	20
EDD 100	and [FST452 GS] or [TDH]		_		1		00
FPP463	PROJECT_463 Prerequisite/s: [FST451 GS] and [FST452 GS] or		S	2	2 ().5	20
DUD464	[TDH]	201	-	2	2	2	20
RHD481	RURAL_HOUSEHOLD_DEVELOPM481 Prerequisite/s: [RHD4	οU]	S	_	_	2	20
	Totals for compulsory modules in the third/fourth quarter			8	/8 3	3/3	50/50
	Commulatory avadita (400) Flactive and the	(0)					
	Compulsory credits = (180) Elective credits =	U)					
A minim	ım of (597) credits is required to obtain the degree.						
A 1111111111	in or (001) creates is required to obtain the degree.						

Field of study	Dept	Code
BCons.Sc.: Clothing: Retail Management	VBR	02130112

Code CIL171 CI CIL172 CI EKN110 EI EOT151 L/	first semester: Name COMPUTER_&_INFORM.LITERACY_171 COMPUTER_&_INFORM.LITERACY_172	Qrt K1	lpw 2	ppw 0	Crdt
CIL172 CIEKN110 ECIECT151 LA		K1	2	^	
EKN110 EG EOT151 LA	OMPLITER & INFORM LITERACY 172			U	3
EOT151 LA	OWI OTER_A_IN ORWINITEROROT_ITE	K2	2	0	3
	CONOMICS_110	S1	3	0	10
EOT152 LA	ANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
	ANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
FRK151 FI	INANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]	K1	4	0	5
FRK152 FI	INANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] and	K2	4	0	5
[P	Par.1.2]		i		
KLR110 C	LOTHING_PRODUCTION_110	S1	1	1	12
KTP100 E	XPERIENTIAL_TRAINING_100	J1	1	0	3
OBG110 PI	RINCIPLES_OF_DESIGN_110	S1	2	1	12
STK110 S	TATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	1	13
	Totals for compulsory modules in the first/second quarter		18/18	3/3	36/36
First year,	second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173 CO	OMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174 CO	OMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
	CONOMICS_120 Prerequisite/s: [EKN110 GS]	S2	3	0	10
EOT153 LA	ANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154 LA	ANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
EST120 A	ESTHETICS_120 Prerequisite/s: [OBG110 GS]	S2	1	1	8
FRK121 FI	INANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS] and	S2	4	0	12
[F	FRK152 GS]		i		
FRK181 FI	INANCIAL_ACCOUNTING_181 Prerequisite/s: [FRK151 GS] and	S2	2	0	3
[P	Par 1.2] and [Par 1.2]				
KLR120 CI	LOTHING_PRODUCTION_120 Prerequisite/s: [KLR110]	S2	1	1	12
KTP100 EX	XPERIENTIAL_TRAINING_100	J1	1	0	3
SEM180 SE	EMINAR_180	S2	2	0	6
	Totals for compulsory modules in the third/fourth quarter		18/18	2/2	33/33
	Compulsory credits = (138) Elective credits = (0)				,
Second year	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	NDUSTR.AND_ORG.PSYCHOLOGY_219	S1	3	0	16
	IARKETING_MANAGEMENT_110	S1	3	0	10
	ESTHETICS_211 Prerequisite/s: [EST120]	S1	2	1	10
	LOTHING_PRODUCTION_210 Prerequisite/s: [KLR120]	S1	1	1	12
	XPERIENTIAL_TRAINING_200	J1	1	0	2
	USINESS_MANAGEMENT_110	S1	3	0	10
	EXTILES_210	S1	3	1	14
	Totals for compulsory modules in the first/second quarter		16/16	3/3	37/37
Second year	ar, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM161 M.	IARKETING_MANAGEMENT_161	K3	3	0	5
	IARKETING_MANAGEMENT_162	K4	3	0	5
BEM162 M	LOTHING 220			Ľ	

	CLOTHING_221	S2	3	0	8
KLR220	CLOTHING_PRODUCTION_220 Prerequisite/s: [KLR120]	S2	0	1	6
KTP200	EXPERIENTIAL_TRAINING_200	J1	1	0	2
OBS120	BUSINESS_MANAGEMENT_120	S2	3	0	10
TKS220	TEXTILES_220 Prerequisite/s: [TKS210]	S2	3	1	14
TKS221	TEXTILES_221 Prerequisite/s: [TKS220 GS]	S2	0	1	6
	Totals for compulsory modules in the third/fourth quarter		16/16	3/3	32/32
					<u> </u>
	Compulsory credits = (138) Elective credits = (0)				
	, , , , , , , , , , , , , , , , , , , ,				
Third year	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM251	MARKETING MANAGEMENT 251	K1	3	0	8
	MARKETING MANAGEMENT 252	K2	3	0	8
	BUSINESS LAW 210	S1	3	0	16
	AESTHETICS_310 Prerequisite/s: [EST210]	S1	0	2	8
	CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210]	S1	1	1	12
	EXPERIENTIAL_TRAINING_300	J1	1	0	2
	BUSINESS_MANAGEMENT_210	S1	3	0	16
	TEXTILES_310 Prerequisite/s: [TKS220 GS]	S1	2	0	6
1110010	Totals for compulsory modules in the first/second quarter	O.	13/13	3/3	38/38
Third you	ar, second semester:		13/13	3/3	30/30
Code	Name	Qrt	lpw	nnuu	Crdt
		K3	_	ppw	
	MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS]	_	3	0	8
	MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS]	K4	3	0	8
	BUSINESS_LAW_220	S2	3	0	16
	CLOTHING_320	S2	4	0	12
	CLOTHING_321 Prerequisite/s: [TKS220 GS]	S2	2	0	6
	CLOTHING_PRODUCTION_320 Prerequisite/s: [KLR210]	S2	1	1	12
KTP300	EXPERIENTIAL_TRAINING_300	J1	1	0	2
	Totals for compulsory modules in the third/fourth quarter		14/14	1/1	32/32
	Compulsory credits = (140) Elective credits = (0)				
	ear, first semester:			_	
Code	Name	Qrt	lpw	ppw	Crdt
BEM351	MARKETING_MANAGEMENT_351 Prerequisite/s: [BEM110 GS or	K1	3	1	10
	BEM161,162]				
	MARKETING_MANAGEMENT_352 Prerequisite/s: [BEM110 GS]	K2	3	1	10
	CLOTHING_410 Prerequisite/s: [Fourth-year status]	S1	3	0	8
	PROJECT_CLOTHING_411 Prerequisite/s: [Fourth-year status]	S1	2	0	6
	EXPERIENTIAL_TRAINING_400 Prerequisite/s: [Fourth-year status]	J1	0	2	10
	EXPERIENTIAL_TRAINING_401	J1	1	0	2
OBS310	BUSINESS_MANAGEMENT_310	S1	4	0	20
	Totals for compulsory modules in the first/second quarter		13/13	3/3	33/33
Fourth y	ear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM361	MARKETING_MANAGEMENT_361	K3	3	1	10
BEM362	MARKETING_MANAGEMENT_362	K4	3	1	10
KLD420	CLOTHING_420 Prerequisite/s: [Fourth-year status]	S2	3	0	8

	CLOTHING_PRODUCTION_420 Prerequisite/s: [EST310] and [KLR310]	S2	1	1	12
	EXPERIENTIAL TRAINING 400 Prerequisite/s: [Fourth-year status]	11	0	2	10
		_	-		
	EXPERIENTIAL_TRAINING_401	J1	1	0	2
OBS320	BUSINESS_MANAGEMENT_320	S2	3	0	20
TKS420	TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	S2	3	0	8
	Totals for compulsory modules in the third/fourth quarter		14/14	4/4	40/40
	Compulsory credits = (146) Elective credits = (0)				
A minimu	um of (562) credits is required to obtain the degree.				

Field of study	Dept	Code
BCons.Sc.: Clothing: Small Business Management	VBR	02130113

First yea	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EKN110	ECONOMICS_110	S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
FRK151	FINANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]	K1	4	0	5
FRK152	FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] and [Par.1.2]	K2	4	0	5
KLR110	CLOTHING_PRODUCTION_110	S1	1	1	12
KTP100	EXPERIENTIAL_TRAINING_100	J1	1	0	3
OBG110	PRINCIPLES_OF_DESIGN_110	S1	2	1	12
STK110	STATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	1	13
	Totals for compulsory modules in the first/second quarter		18/18	3/3	36/36
First yea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
EKN120	ECONOMICS_120 Prerequisite/s: [EKN110 GS]	S2	3	0	10
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
EST120	AESTHETICS_120 Prerequisite/s: [OBG110 GS]	S2	1	1	8
FRK121	FINANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS] and [FRK152 GS]	S2	4	0	12
FRK181	FINANCIAL_ACCOUNTING_181 Prerequisite/s: [FRK151 GS] and [Par 1.2] and [Par 1.2]	S2	2	0	3
KLR120	CLOTHING_PRODUCTION_120 Prerequisite/s: [KLR110]	S2	1	1	12
KTP100	EXPERIENTIAL_TRAINING_100	J1	1	0	3
	SEMINAR_180	S2	2	0	6
	Totals for compulsory modules in the third/fourth quarter	•	18/18	2/2	33/33
	·				
	Compulsory credits = (138) Elective credits = (0)				

Sacand .	year first comester:					
Code	vear, first semester: Name	Qrt	lour	nnı		Crdt
	INDUSTR. & ORG. PSYCHOLOGY 181	Un J1	lpw 4	ppw 0		2.5
	MARKETING MANAGEMENT 110	S1	3	0		2.5 10
	AESTHETICS_211 Prerequisite/s: [EST120]	S1	2	1		10
	CLOTHING_PRODUCTION_210 Prerequisite/s: [KLR120]	S1	1	1	_	12
	EXPERIENTIAL TRAINING 200	J1	1	0		2
	ENTREPRENEURSHIP 113	S1	3	0		10
	TEXTILES_210	S1	3	1		14
113210		31	3 17/17			• •
Canand .	Totals for compulsory modules in the first/second quarter		17/17	3/3	30.2	5/30.25
Code	/ear, second semester: Name	Qrt	low	nnw	-	Crdt
			lpw 4	ppw		
	INDUSTR&_ORGPSYCHOLOGY_181	J1		0		2.5
	MARKETING_MANAGEMENT_161	K3	3	0		5
	MARKETING_MANAGEMENT_162	K4	3	0		5
	CLOTHING_220	S2	3	0		8
	CLOTHING_221	S2	3	0	<u> </u>	8
	CLOTHING_PRODUCTION_220 Prerequisite/s: [KLR120]	S2	0	1		6
	EXPERIENTIAL_TRAINING_200	J1	1	0		2
	ENTREPRENEURSHIP_123	S2	3	0	_	10
	TEXTILES_220 Prerequisite/s: [TKS210]	S2	3	1		14
TKS221	TEXTILES_221 Prerequisite/s: [TKS220 GS]	S2	0	1		6
	Totals for compulsory modules in the third/fourth quarter		20/20	3/3	33.2	5/33.25
	Compulsory credits = (127) Elective credits	= (0)				
-: · ·						
	ar, first semester:		0-4	I	I	Orrelt
Code	Name		Qrt	lpw	ppw	Crdt
Code BEM251	Name MARKETING_MANAGEMENT_251		K1	3	0	8
Code BEM251 BEM252	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252		K1 K2	3	0	8
Code BEM251 BEM252 BER210	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210		K1 K2 S1	3 3	0 0	8 8 16
Code BEM251 BEM252 BER210 EST310	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210]		K1 K2 S1 S1	3 3 3 0	0 0 0 2	8 8 16 8
Code BEM251 BEM252 BER210 EST310 KLR310	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210]		K1 K2 S1 S1 S1	3 3 3 0	0 0 0 2 1	8 8 16 8 12
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300		K1 K2 S1 S1 S1 J1	3 3 3 0 1	0 0 0 2 1	8 8 16 8 12 2
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213		K1 K2 S1 S1 S1 J1 S1	3 3 0 1 1 3	0 0 0 2 1 0	8 8 16 8 12 2 16
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS]		K1 K2 S1 S1 S1 J1	3 3 0 1 1 3 2	0 0 0 2 1 0 0	8 8 16 8 12 2 16 6
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter		K1 K2 S1 S1 S1 J1 S1	3 3 0 1 1 3	0 0 0 2 1 0	8 8 16 8 12 2 16
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yes	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester:		K1 K2 S1 S1 S1 J1 S1 S1	3 3 3 0 1 1 3 2 13/13	0 0 0 2 1 0 0 0 3/3	8 8 16 8 12 2 16 6 38/38
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third year	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name	21	K1 K2 S1 S1 S1 J1 S1 S1	3 3 0 1 1 3 2 13/13	0 0 0 2 1 0 0 0 3/3	8 8 16 8 12 2 16 6 38/38
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third year Code BEM261	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS	_	K1 K2 S1 S1 S1 J1 S1 S1 Crt K3	3 3 3 0 1 1 3 2 13/13	0 0 0 2 1 0 0 0 3/3	8 8 16 8 12 2 16 6 38/38 Crdt 8
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yea Code BEM261 BEM262	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GSMARKETING_MANAGEMENT_262 PREPERETERETERETERETERETERETERETERETERET	_	K1 K2 S1 S1 S1 J1 S1 S1 S1 K3	3 3 0 1 1 3 2 13/13	0 0 0 2 1 0 0 0 3/3	8 8 16 8 12 2 16 6 38/38 Crdt 8
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yes Code BEM261 BEM262 BER220	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GSBUSINESS_LAW_220]	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 K3 K4 S2	3 3 3 0 1 1 3 2 13/13	0 0 0 2 1 0 0 0 3/3	8 8 16 8 12 2 16 6 38/38 Crdt 8 8
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yea Code BEM261 BEM262 BER220 KLD320	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_320	•	K1 K2 S1 S1 S1 J1 S1 S1 Qrt K3 K4 S2 S2	3 3 3 0 1 1 3 2 13/13 lpw 3 3 3	0 0 0 2 1 0 0 0 3/3 ppw 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yea Code BEM261 BEM262 BER220 KLD320 KLD321	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_321 Prerequisite/s: [TKS220 GS]	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 S1 K3 K4 S2 S2 S2	3 3 3 0 1 1 3 2 13/13 lpw 3 3 3 4 2	0 0 0 2 1 0 0 0 3/3 ppw 0 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16 12 6
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yea Code BEM261 BEM262 BER220 KLD320 KLD321 KLR320	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_320 CLOTHING_321 Prerequisite/s: [TKS220 GS] CLOTHING_PRODUCTION_320 Prerequisite/s: [KLR210]	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 S	3 3 3 0 1 1 1 3 2 13/13 lpw 3 3 3 4 2	0 0 0 2 1 0 0 0 0 3/3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16 12 6
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yes Code BEM261 BEM262 BER220 KLD320 KLD321 KLR320 KTP300	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_320 CLOTHING_321 Prerequisite/s: [TKS220 GS] CLOTHING_PRODUCTION_320 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 S	3 3 3 0 1 1 1 3 2 13/13 3 3 3 3 4 2 1 1	0 0 0 2 1 0 0 0 0 3/3 ppw 0 0 0 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16 12 6
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yes Code BEM261 BEM262 BER220 KLD320 KLD321 KLR320 KTP300	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_320 CLOTHING_321 Prerequisite/s: [TKS220 GS] CLOTHING_PRODUCTION_320 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_223	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 S	3 3 3 0 1 1 1 3 2 13/13 1 1 1 3 3 3 3 3 4 4 2 1 1 1 1 3 3 3 3	0 0 0 2 1 0 0 0 3/3 ppw 0 0 0 0 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16 12 6
Code BEM251 BEM252 BER210 EST310 KLR310 KTP300 OBS213 TKS310 Third yes Code BEM261 BEM262 BER220 KLD320 KLD321 KLR320 KTP300	Name MARKETING_MANAGEMENT_251 MARKETING_MANAGEMENT_252 BUSINESS_LAW_210 AESTHETICS_310 Prerequisite/s: [EST210] CLOTHING_PRODUCTION_310 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300 ENTREPRENEURSHIP_213 TEXTILES_310 Prerequisite/s: [TKS220 GS] Totals for compulsory modules in the first/second quarter ar, second semester: Name MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS BUSINESS_LAW_220 CLOTHING_320 CLOTHING_321 Prerequisite/s: [TKS220 GS] CLOTHING_PRODUCTION_320 Prerequisite/s: [KLR210] EXPERIENTIAL_TRAINING_300	•	K1 K2 S1 S1 S1 S1 S1 S1 S1 S	3 3 3 0 1 1 1 3 2 13/13 3 3 3 3 4 2 1 1	0 0 0 2 1 0 0 0 0 3/3 ppw 0 0 0 0 0 0	8 8 16 8 12 2 16 6 38/38 Crdt 8 8 16 12 6

	Compulsory credits = (156) Elective credits = (0)				
	Compusory credits = (130) Elective credits = (0)				
Fourth y	ear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM351	MARKETING_MANAGEMENT_351 Prerequisite/s: [BEM110 GS or	K1	3	1	10
	BEM161,162]				
BEM352	MARKETING_MANAGEMENT_352 Prerequisite/s: [BEM110 GS]	K2	3	1	10
KLD411	PROJECT_CLOTHING_411 Prerequisite/s: [Fourth-year status]	S1	2	0	6
KLD412	CLOTHING_412 Prerequisite/s: [Fourth-year status]	S1	3	0	8
KLR410	CLOTHING_PRODUCTION_410 Prerequisite/s: [KLR210]	S1	1	1	12
KTP400	EXPERIENTIAL_TRAINING_400 Prerequisite/s: [Fourth-year status]	J1	0	2	10
KTP401	EXPERIENTIAL_TRAINING_401	J1	1	0	2
OBS313	ENTREPRENEURSHIP_313	S1	3	0	20
	Totals for compulsory modules in the first/second quarter		13/13	4/4	39/39
Fourth y	ear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM361	MARKETING_MANAGEMENT_361	K3	3	1	10
BEM362	MARKETING_MANAGEMENT_362	K4	3	1	10
KLD421	CLOTHING_421 Prerequisite/s: [Fourth-year status]	S2	3	0	8
KLR420	CLOTHING_PRODUCTION_420 Prerequisite/s: [EST310] and [KLR310]	S2	1	1	12
KTP400	EXPERIENTIAL_TRAINING_400 Prerequisite/s: [Fourth-year status]	J1	0	2	10
KTP401	EXPERIENTIAL_TRAINING_401	J1	1	0	2
OBS323	ENTREPRENEURSHIP_323	S2	3	0	20
TKS420	TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	S2	3	0	8
	Totals for compulsory modules in the third/fourth quarter		14/14	4/4	40/40
	·				
	Compulsory credits = (158) Elective credits = (0)				
A minim	um of (579) credits is required to obtain the degree.				

Field of study	Dept	Code
BCons.Sc.: Foods: Retail Management	VBR	02130114

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM110	MARKETING_MANAGEMENT_110	S1	3	0	10
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EKN110	ECONOMICS_110	S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
OBG110	PRINCIPLES_OF_DESIGN_110	S1	2	1	12
OBS110	BUSINESS_MANAGEMENT_110	S1	3	0	10
STK110	STATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	1	13
VDS110	FOODS_110	S1	3	0	8
	Totals for compulsory modules in the first/second quarter		21/21	2/2	37.5/37.5

First yea	r, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BEM161	MARKETING_MANAGEMENT_161		K3	3	0	5
BEM162	MARKETING_MANAGEMENT_162		K4	3	0	5
BLG260	GENERAL_MICROBIOLOGY_260		K3	4	1	8
CIL173	COMPUTER_&_INFORM.LITERACY_173		K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
EKN120	ECONOMICS_120 Prerequisite/s: [EKN110 GS]		S2	3	0	10
EOT153	LANGUAGE_PROFICIENCY(3)_153		K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
OBS120	BUSINESS_MANAGEMENT_120		S2	3	0	10
SEM180	SEMINAR_180		S2	2	0	6
	Totals for compulsory modules in the third/fourth quarter			19/15	1/0	32/24
	Compulsory credits = (131) Elective credits	= (0)				
	rear, first semester:			1		
Code	Name	Qrt	lpw	ppw	(Crdt
	MARKETING_MANAGEMENT_251	K1	3	0		8
	MARKETING_MANAGEMENT_252	K2	3	0		8
	FINANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]	K1	4	0		5
FRK152	FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151	K2	4	0		5
	GS] and [Par.1.2]					
	BUSINESS_MANAGEMENT_210	S1	3	0		16
	EXPERTRAINING_IN_INDUST280	J1	1	0	_	2.5
VDS210	FOODS_210	S1	3	1		16
	Totals for compulsory modules in the first/second quarter		14/14	1/1	30.2	5/30.25
Second y	year, second semester:					
Code	Name	Qrt	lpw	ppw	(Crdt
BEM261	MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS]	K3	3	0		8
BEM262	MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS]	K4	3	0		8
FRK121	FINANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS] and [FRK152 GS]	S2	4	0		12
FRK181	FINANCIAL_ACCOUNTING_181 Prerequisite/s: [FRK151 GS] and [Par 1.2] and [Par 1.2]	S2	2	0		3
KEP220	CULTURAL_EATING_PATTERNS_220	S2	3	0		8
	EXPERTRAINING_IN_INDUST280	J1	1	0		2.5
	NUTRITION 220	S2	3	0		8
	FOODS_221 Prerequisite/s: [VDS210]	S2	3	1		16
	Totals for compulsory modules in the third/fourth quarter		19/19		32.7	5/32.75
	, and a second desired					
	Compulsory credits = (126) Elective credits	= (0)				
Third yea	ar, first semester:					
Code	Name	Qrt	lpw	ppw		Crdt

ABR311	LABOUR_LAW_311	S1	:	3	0	20	
	BUSINESS MANAGEMENT 310	S1	-	1	0	20	
	EXPER. TRAINING IN INDUST. 380	J1	-	1	0	2.5	
	NUTRITION_310 Prerequisite/s: [FSG110 or VDG220] and	S1	_	3	1	14	
1200.0	[FSG120 or VDG163]	•	`		·	• •	
VDS310	FOODS_310 Prerequisite/s: [VDS210] and [VDS221]	S1	1	3	1	16	
	FOODS 353 Prerequisite/s: [VDS220] and [VDS221]	K1		3	1	8	
VDS354	FOODS 354	K2	- (3	0	4	
	Totals for compulsory modules in the first/second quarter		17,	/17 :	3/2 4	4.25/40.25	
Third yea	ar, second semester:			•			
Code	Name	Qrt	lр	w p	pw	Crdt	
ABV320	LABOUR_RELATIONS_320	S2	:	3	0	20	
OPI380	EXPERTRAINING_IN_INDUST380	J1		1	0	2.5	
VDG320	NUTRITION_320 Prerequisite/s: [VDG310]	S2	(3	1	14	
VDS320	FOODS_320 Prerequisite/s: [KEP220] and [KEP261] and	S2	į	5	2	30	
	[VDS220] and [VDS221]						
	Totals for compulsory modules in the third/fourth quarter		12	/12 :	3/3	3.25/33.25	
	Compulsory credits = (151) Elective credits :	= (0)					
Fourth y	ear, first semester:						
Code	Name)rt	lpw	ppw	Crdt	
BEM351	MARKETING_MANAGEMENT_351 Prerequisite/s: [BEM110 GS or BEM161,162]	k	(1	3	1	10	
BEM352	MARKETING_MANAGEMENT_352 Prerequisite/s: [BEM110 GS	1 k	(2	3	1	10	
	SENSORY_ANAL.&QUAL.MAN.SYS.411 Prerequisite/s:	_	31	2	1	20	
	[FST260] and [FST351] and [FST352] or [TDH]						
OPI480	EXPERTRAINING_IN_INDUST480	J	1	1	0	5	
VDB410	FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320)] [31	3	1	16	
VDB411	PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #]	S	31	2	0	6	
VDS413	FOODS_413 Prerequisite/s: [VDS310]	5	31	3	1	24	
	VISUAL_MERCHANDIS.OF_FOODS_415	5	31	3	0	8	
	Totals for compulsory modules in the first/second quarter			17/17	4/4	49.5/49.5	
Fourth v	ear, second semester:		- 1		•		
Code	Name	C)rt	lpw	ppw	Crdt	
BEM361	MARKETING_MANAGEMENT_361	k	(3	3	1	10	
	MARKETING_MANAGEMENT_362	_	(4	3	1	10	
	EXPERTRAINING_IN_INDUST480	J	1	1	0	5	
VDS422	PROJECT_FOODS_422 Prerequisite/s: [VDS310]	5	32	1	2	20	
	FOODS_423	5	32	3	0	8	
VDS425	PROJECT_FOODS:VISUAL_MERCH.425 Prerequisite/s:	S	32	3	0	6	
	[VDS415] and [VDS423 #]						
	Totals for compulsory modules in the third/fourth quarter			11/11	3/3	29.5/29.5	
	Commissions are the (450) Flority 19	(0)					
	Compulsory credits = (158) Elective credits = (0)						
A minim	um of (566) credits is required to obtain the degree.						
A 1111111111	ani or (500) credits is required to obtain the degree.						

Field of study	Dept	Code
BCons.Sc.: Hospitality Management	VBR	02130115

First year	r, first semester:					
Code	Name		Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171		K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172		K2	2	0	3
EKN110	ECONOMICS_110		S1	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151		K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152		K2	2	0	3
OBG110	PRINCIPLES_OF_DESIGN_110		S1	2	1	12
OBS110	BUSINESS_MANAGEMENT_110		S1	3	0	10
TBE110	TOURISM_MANAGEMENT_110		S1	4	0	10
VDS110	FOODS_110		S1	3	0	8
	Totals for compulsory modules in the first/second quarter			19/19	1/1	31/31
First year	r, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
BLG260	GENERAL_MICROBIOLOGY_260		K3	4	1	8
CIL173	COMPUTER_&_INFORM.LITERACY_173		K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174		K4	2	0	3
EKN120	ECONOMICS_120 Prerequisite/s: [EKN110 GS]		S2	3	0	10
EOT153	LANGUAGE_PROFICIENCY(3)_153		K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154		K4	2	0	3
ITW120	INTERIOR_MERCHANDISE_120		S2	2	1	12
OBS120	BUSINESS_MANAGEMENT_120		S2	3	0	10
SEM180	SEMINAR_180		S2	2	0	6
TBE120	TOURISM_MANAGEMENT_120		S2	4	0	10
	Totals for compulsory modules in the third/fourth quarter			22/18	2/1	38/30
	Compulsory credits = (130) Elective credits	= (0)				
Second y	rear, first semester:					
Code	Name	Qrt	lpw	ppw	C	rdt
ABR311	LABOUR_LAW_311	S1	3	0		20
OBS210	BUSINESS_MANAGEMENT_210	S1	3	0		16
OPI280	EXPERTRAINING_IN_INDUST280	J1	1	0	:	2.5
TKS211	TEXTILES_211	K1	3	1		7
VDS210	FOODS_210	S1	3	1		16
	Totals for compulsory modules in the first/second quarter		13/10	2/1	34.2	5/27.25
Second y	rear, second semester:					
Code	Name	Qrt	lpw	ppw	C	Crdt
ABV320	LABOUR_RELATIONS_320	S2	3	0		20
	INTERIOR_MERCHANDISE_261	K3	2	1		6
KEP220	CULTURAL_EATING_PATTERNS_220	S2	3	0		8
OPI280	EXPERTRAINING_IN_INDUST280	J1	1	0		2.5
TBE220	TOURISM_MANAGEMENT_220	S2	4	0		16

	NUTRITION_220	S2	3	0	Т	8
	FOODS_221 Prerequisite/s: [VDS210]	S2	3	1	╁	16
VDOZZI	Totals for compulsory modules in the third/fourth quarter	OZ.	19/17		4	1.25/35.25
	Totale for compared y mediate in the time/fourth quarter		10/11			1.20/00.20
	Compulsory credits = (138) Elective credits =	(0)				
This are	Cont. a consistent					
Code	ar, first semester: Name	Qrt	low	nnu		Crdt
	2. 2	אוג 31	lpw 2	ppv 1	_	Crdt 12
11 W310	INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210]	51	2	1		12
OBS310	BUSINESS_MANAGEMENT_310	S1	4	0		20
OPI380	EXPERTRAINING_IN_INDUST380	J1	1	0		2.5
VDG310	NUTRITION_310 Prerequisite/s: [FSG110 or VDG220] and [FSG120 or VDG163]	31	3	1		14
VDS354	·	〈 2	3	0		4
	Totals for compulsory modules in the first/second quarter		10/13	_	2 2	4.25/28.25
	· · ·					
Third ye	ar, second semester:					
Code	Name	Qrt	lpw	ppw	٧	Crdt
OPI380	EXPERTRAINING_IN_INDUST380	J1	1	0		2.5
TBE320	TOURISM_MANAGEMENT_320	S2	4	0		20
VDB320	FOOD_SERVICE_MANAGEMENT_320 Prerequisite/s: [VDS320 #]	S2	4	1		20
VDG320	NUTRITION_320 Prerequisite/s: [VDG310]	S2	3	1		14
		S2	5	2		30
	[VDS220] and [VDS221]					
	Totals for compulsory modules in the third/fourth quarter		17/17	4/4	43	3.25/43.25
	O - manufacture and disc. (400) Florities and disc.	(0)				
	Compulsory credits = (139) Elective credits =	(0)				
Fourth y		(0)				
Fourth y	Compulsory credits = (139) Elective credits = ear, first semester: Name		rt Ip	w p	ppw	Crdt
Code	ear, first semester:	С	_	w r	opw 0	Crdt 20
Code OBS311	ear, first semester: Name	C	_	3	•	
Code OBS311 OPI480	ear, first semester: Name ENTREPRENEURSHIP_311	C	1 1	3 I	0	20
Code OBS311 OPI480 PGB480	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480	S	31 3 1 1 1 4	3 I	0	20 5
Code OBS311 OPI480 PGB480 VDB410	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s:	C S J	31 3 1 1 1 4	1 1 1 3	0 0	20 5 12
Code OBS311 OPI480 PGB480 VDB410 VDB411	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #]	G S J	31 3 1 1 1 2 31 3	1 1 1 3	0 0 0	20 5 12 16
Code OB\$311 OPI480 PGB480 VDB410 VDB411 VDS413	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310]		31 3 1 1 1 2 31 3	3 1 4 3 2	0 0 0 1 0	20 5 12 16 6
Code OB\$311 OPI480 PGB480 VDB410 VDB411 VDS413	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #]		51 3 1 1 1 1 2 51 3 51 3 51 2	3 1 4 3 3 2	0 0 0 1 0	20 5 12 16 6
Code OBS311 OPI480 PGB480 VDB410 VDB411 VDS413 VDS414	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310] CULINARY_ART_414 Prerequisite/s: [VDS210] and [VDS221] Totals for compulsory modules in the first/second quarter		51 3 1 1 1 1 2 51 3 51 3 51 2	3 1 4 3 3 2	0 0 0 1 0	20 5 12 16 6
Code OBS311 OPI480 PGB480 VDB410 VDB411 VDS413 VDS414 Fourth y	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310] CULINARY_ART_414 Prerequisite/s: [VDS210] and [VDS221] Totals for compulsory modules in the first/second quarter ear, second semester:		61 3 1 1 2 61 3 61 3 61 2 61 2	3 1 1 1 1 1 1 1 1 1	0 0 0 1 0 1 1 1 1	20 5 12 16 6 24 14 48.5/48.5
Code OBS311 OPI480 PGB480 VDB410 VDB411 VDS413 VDS414 Fourth y Code	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310] CULINARY_ART_414 Prerequisite/s: [VDS210] and [VDS221] Totals for compulsory modules in the first/second quarter ear, second semester: Name		61 3 1 7 1 2 61 3 61 3 61 3 61 2 18/	3 1 1 1 1 1 1 1 1 1	0 0 0 1 0 1 1 1 1 1 23/3	20 5 12 16 6 24 14 48.5/48.5
Code OBS311 OPI480 PGB480 VDB410 VDB411 VDS413 VDS414 Fourth y Code	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310] CULINARY_ART_414 Prerequisite/s: [VDS210] and [VDS221] Totals for compulsory modules in the first/second quarter ear, second semester:		61 3 1 1 2 61 3 61 3 61 2 61 2	3 1 1 1 1 1 1 1 1 1	0 0 0 1 0 1 1 1 1	20 5 12 16 6 24 14 48.5/48.5
Code OBS311 OPI480 PGB480 VDB410 VDB411 VDS413 VDS414 Fourth y Code INB320	ear, first semester: Name ENTREPRENEURSHIP_311 EXPERTRAINING_IN_INDUST480 PROJECT:HOSPITALITY_MANAG480 FOOD_SERVICE_MANAGEMENT_410 Prerequisite/s: [VDB320 PROJECT_FOOD_SERVICE_MANAG_411 Prerequisite/s: [VDB410 #] FOODS_413 Prerequisite/s: [VDS310] CULINARY_ART_414 Prerequisite/s: [VDS210] and [VDS221] Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and		61 3 1 7 1 2 61 3 61 3 61 3 61 2 18/	3 1 1 1 1 1 1 1 1 1	0 0 0 1 0 1 1 1 1 1 23/3	20 5 12 16 6 24 14 48.5/48.5

VDS424 CULINARY_ART_424 Prerequisite/s: [VDS210] and [VDS221] and [VDS414]	S2	2	1	14		
Totals for compulsory modules in the third/fourth quarter		8/8	2/2	21.5/21.5		
Compulsory credits = (140) Elective credits = (0)						
A minimum of (547) credits is required to obtain the degree.						

Dept	Code
VBR	02130116

First yea	r, first semester:					
Code	Name	Qrt	lр	w p	opw	Crdt
BEM110	MARKETING_MANAGEMENT_110	S1	(7)	3	0	10
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	2	0	3
EKN110	ECONOMICS_110	S1	3	3	0	10
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	2	0	3
INK110	INTERIOR_PRODUCTION_110	S1	1	1	1	12
OBG110	PRINCIPLES_OF_DESIGN_110	S1	2	2	1	12
STK110	STATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	3	1	13
VKK155	FOUNDATIONS_OF_VISUAL_LANG.155	K1	3	3	0	6
	Totals for compulsory modules in the first/second quarter		19	/16	3/3	40.5/34.5
First yea	r, second semester:					
Code	Name	(Qrt	lpw	pp	w Crdt
BEM161	MARKETING_MANAGEMENT_161	ŀ	(3	3	0	5
BEM162	MARKETING_MANAGEMENT_162	ŀ	< 4	3	0	5
CIL173	COMPUTER_&_INFORM.LITERACY_173	ŀ	(3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	ŀ	< 4	2	0	3
EKN120	ECONOMICS_120 Prerequisite/s: [EKN110 GS]	9	32	3	0	10
EOT153	LANGUAGE_PROFICIENCY(3)_153	ŀ	(3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	ŀ	< 4	2	0	3
ITW120	INTERIOR_MERCHANDISE_120	9	32	2	1	12
SEM180	SEMINAR_180	9	32	2	0	6
	Totals for compulsory modules in the third/fourth quarter			14/14	4 1/	1 25/25
	Compulsory credits = (125) Elective credits =	(0)				
Second y	year, first semester:					
Code	Name	C	Qrt	lpw	pp	w Crdt
BEM251	MARKETING_MANAGEMENT_251	ŀ	< 1	3	0	8
BEM252	MARKETING_MANAGEMENT_252	ŀ	〈 2	3	0	8
	ERGONOMICS_280		31	2	1	8
INK210	INTERIOR_PRODUCTION_210 Prerequisite/s: [INK110]	5	31	1	1	12
MTT210	FURNITURE_&_TEXTILE_HISTORY_210	5	31	3	0	8

OBS110	BUSINESS_MANAGEMENT_110		S1	3	0	10			
	TEXTILES 210		S1	3	1	14			
Totals for compulsory modules in the first/second quarter					3/	3 34/34			
Second y	Second year, second semester:								
Code	Name		Qrt	lpw	pp	w Crdt			
BEM261	MARKETING_MANAGEMENT_261 Prerequisite/s: [BEM110 GS]		K3	3	0	8			
BEM262	MARKETING_MANAGEMENT_262 Prerequisite/s: [BEM110 GS]		K4	3	0	8			
ITW220	INTERIOR_MERCHANDISE_220		S2	2	1	12			
MTT220	FURNITURE_&_TEXTILE_HISTORY_220 Prerequisite/s: [MTT21	0	S2	3	0	8			
000100	GS]		00		+	40			
-	BUSINESS_MANAGEMENT_120		S2	3	0				
	TEXTILES_220 Prerequisite/s: [TKS210]		S2	3	1	14			
	TEXTILES_221 Prerequisite/s: [TKS220 GS]		S2	0	1	6			
VKK257	STYLE_&_ANTI-STYLE_1940-PRES.257		K3	2	0				
	Totals for compulsory modules in the third/fourth quarter			16/14	3/	3 43/33			
	Compulsory credits = (144) Elective credits =	(0)							
Third yea	ar, first semester:								
Code	Name		Qrt	lpw	pp	w Crdt			
BDO219	INDUSTR.AND_ORG.PSYCHOLOGY_219		S1	3	0	16			
BER210	BUSINESS_LAW_210		S1	3	0	16			
FRK151	FINANCIAL_ACCOUNTING_151 Prerequisite/s: [Par.1.2]		K1	4	0	5			
FRK152	FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] ar	nd	K2	4	0	5			
INUCAA	[Par.1.2]	_	04		+	40			
	INTERIOR_PRODUCTION_310 Prerequisite/s: [INK210]		S1	1	1				
11 00310	INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210]		S1	1 2		12			
OBS210	BUSINESS_MANAGEMENT_210		S1 3		0	16			
	Totals for compulsory modules in the first/second quarter			16/16	2/	2 41/41			
Third year	ar, second semester:			•		•			
Code	Name	Qrt	1	pw p	pw	Crdt			
BER220	BUSINESS_LAW_220	S2		3	0	16			
FRK121	FINANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS]	S2		4	0	12			
EDI/404	and [FRK152 GS] FINANCIAL ACCOUNTING 181 Prerequisite/s: [FRK151 GS]	S2	+-	2	0	3			
FRKISI	and [Par 1.2] and [Par 1.2]	52		2	0	3			
INB320	INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and	S2		1	1	12			
	[OBG110]								
	INTERIOR_EXPERIENTIAL_TRAI.380	S2		1	0	10			
	DESIGN_COMMUNICATION_220	S2		1	0	8			
SEM380	SEMINAR_380 Prerequisite/s: [SEM180]	S2	-	2	0	6			
	Totals for compulsory modules in the third/fourth quarter		14	1/14	/1	33.5/33.5			
	Commulatory availte (440) Florible and the	(0)							
-	Compulsory credits = (149) Elective credits =	(0)							
Fourth v	ear, first semester:								
Code	Name		Qrt	lpw	рр	w Crdt			
	MARKETING_MANAGEMENT_351 Prerequisite/s: [BEM110 GS of	_	K1	3	1	10			
				<u> </u>	-				

	BEM161,162]				
BEM352	MARKETING_MANAGEMENT_352 Prerequisite/s: [BEM110 GS]	K2	3	1	10
INB410	INTERIOR_PLANNING_410 Prerequisite/s: [INB320] and [OKU220]	S1	1	1	10
	PROJECT_INTERIOR_MERCH480 Prerequisite/s: [SEM320] and [Final-year status]	J1	1	0	10
OBS310	BUSINESS_MANAGEMENT_310	S1	4	0	20
VBF410	CONSUMER_FACILITATION_410	S1	3	0	8
	Totals for compulsory modules in the first/second quarter		12/12	2/2	34/34
OBS315	can be taken instead of OBS310.				
Fourth ye	ear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
BEM320	MARKETING_MANAGEMENT_320	S2	3	1	20
ITP480	PROJECT_INTERIOR_MERCH480 Prerequisite/s: [SEM320] and [Final-year status]	J1	1	0	10
		J1 K4	1	0	10
KGK356	[Final-year status]			Ů	
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356	K4	3	0	15
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356 BUSINESS_MANAGEMENT_325	K4 S2	3 4	0 0	15
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356 BUSINESS_MANAGEMENT_325 TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	K4 S2	3 4 3	0 0	15 10 8
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356 BUSINESS_MANAGEMENT_325 TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	K4 S2	3 4 3	0 0	15 10 8
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356 BUSINESS_MANAGEMENT_325 TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	K4 S2	3 4 3	0 0	15 10 8
KGK356 OBS325	[Final-year status] SOUTH_AFRICAN_ART:_THEMES_356 BUSINESS_MANAGEMENT_325 TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221] Totals for compulsory modules in the third/fourth quarter	K4 S2	3 4 3	0 0	15 10 8

Field of study	Dept	Code
BCons.Sc.: Interior Merchandise: Small	VBR	02130117
Business Management		

First yea	r, first semester:					
Code	Name	Qrt	lpw	ppw	(Crdt
BEM110	MARKETING_MANAGEMENT_110	S1	3	0		10
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0		3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0		3
EKN110	ECONOMICS_110	S1	3	0		10
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0		3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0		3
INK110	INTERIOR_PRODUCTION_110	S1	1	1		12
OBG110	PRINCIPLES_OF_DESIGN_110	S1	2	1		12
STK110	STATISTICS_110 Prerequisite/s: [Reg1.2(j)]	S1	3	1		13
VKK155	FOUNDATIONS_OF_VISUAL_LANG.155	K1	3	0		6
	Totals for compulsory modules in the first/second quarter		19/16	3/3	40.	5/34.5
First yea	r, second semester:					
Code	Name	(Qrt lp	w p	pw	Crdt
BEM161	MARKETING_MANAGEMENT_161	I	(3	3	0	5
BEM162	MARKETING_MANAGEMENT_162	I	< 4 :	3	0	5
CIL173	COMPUTER_&_INFORM.LITERACY_173	I	K 3 2	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	I	< 4 2	2	0	3

EKN120 ECONOMICS_120 Prerequisite/s: [EKN110 GS] S2 3 0 10
EOT154
ITW120 INTERIOR_MERCHANDISE_120
SEM180 SEMINAR_180 S2 2 0 6 Totals for compulsory modules in the third/fourth quarter 14/14 1/1 25/ Compulsory credits = (125) Elective credits = (0) Second year, first semester: Code Name Qrt Ipw ppw Crt ERG280 ERGONOMICS_280 S1 2 1 8
Totals for compulsory modules in the third/fourth quarter
Compulsory credits = (125) Elective credits = (0)
Second year, first semester: Code Name Qrt lpw ppw Crr ERG280 ERGONOMICS_280 S1 2 1 8
Second year, first semester: Code Name Qrt lpw ppw Crr ERG280 ERGONOMICS_280 S1 2 1 8
Code Name Qrt lpw ppw Crd ERG280 ERGONOMICS_280 S1 2 1 8
Code Name Qrt lpw ppw Crd ERG280 ERGONOMICS_280 S1 2 1 8
ERG280 ERGONOMICS_280 S1 2 1 8
TERK 151 JEINANCIAL ACCOUNTING 151 Prefeduisite/S (Par 12) KIL 4 L 0 L 5
FRK152 FINANCIAL_ACCOUNTING_152 Prerequisite/s: [FRK151 GS] and K2 4 0 5 [Par.1.2]
INK210 INTERIOR_PRODUCTION_210 Prerequisite/s: [INK110] S1 1 1 12
MTT210 FURNITURE_&_TEXTILE_HISTORY_210 S1 3 0 8
OBS113 ENTREPRENEURSHIP 113 S1 3 0 10
TKS210 TEXTILES 210 S1 3 1 14
Totals for compulsory modules in the first/second quarter 16/16 3/3 31/
Totals for compulsory modules in the misusecond quarter 10/10 3/3 31/
Second year, second semester:
Code Name Qrt lpw ppw Crdt
FRK121 FINANCIAL_ACCOUNTING_121 Prerequisite/s: [FRK151 GS] S2 4 0 12
and [FRK152 GS]
FRK181 FINANCIAL_ACCOUNTING_181 Prerequisite/s: [FRK151 GS] S2 2 0 3
and [Par 1.2] and [Par 1.2]
KOB181 COMMUNICATION_MANAGEMENT_181 K3 3 0 5
MTT220 FURNITURE&_TEXTILE_HISTORY_220 Prerequisite/s: [MTT210 S2 3 0 8
GS]
OBS123 ENTREPRENEURSHIP_123 S2 3 0 10
TKS220 TEXTILES_220 Prerequisite/s: [TKS210] S2 3 1 14
TKS221 TEXTILES_221 Prerequisite/s: [TKS220 GS]
VKK257 STYLE&ANTI-STYLE_1940-PRES.257 K3 2 0 10
VKK258 VISUAL_IDENTITY_&_BRANDING_258 K4 2 0 10
Totals for compulsory modules in the third/fourth quarter 20/17 2/2 41.5/3
Compulsory credits = (140) Elective credits = (0)
Third year, first semester:
Time your, mor competer.
Code Name Qrt lpw ppw Crdt
Code Name Qrt lpw ppw Crdt BDO181 INDUSTR&_ORGPSYCHOLOGY_181 J1 4 0 2.5
Code Name Qrt lpw ppw Crdt
Code Name Qrt lpw ppw Crdt BDO181 INDUSTR&_ORGPSYCHOLOGY_181 J1 4 0 2.5
Code Name Qrt lpw ppw Crdt BD0181 INDUSTR&_ORGPSYCHOLOGY_181 J1 4 0 2.5 BER210 BUSINESS_LAW_210 S1 3 0 16 INK310 INTERIOR_PRODUCTION_310 Prerequisite/s: [INK210] S1 1 1 12 ITW310 INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] S1 2 1 12
Code Name Qrt lpw ppw Crdt BD0181 INDUSTR&_ORGPSYCHOLOGY_181 J1 4 0 2.5 BER210 BUSINESS_LAW_210 S1 3 0 16 INK310 INTERIOR_PRODUCTION_310 Prerequisite/s: [INK210] S1 1 1 12 ITW310 INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] S1 2 1 12 and [TKS210] TKS210] TKS210 TKS210 TKS210 TKS210 TKS210
Code Name Qrt lpw ppw Crdt BD0181 INDUSTR&_ORGPSYCHOLOGY_181 J1 4 0 2.5 BER210 BUSINESS_LAW_210 S1 3 0 16 INK310 INTERIOR_PRODUCTION_310 Prerequisite/s: [INK210] S1 1 1 12 ITW310 INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] S1 2 1 12

Code	Name	Qrt	lpw	ppv	/	Crdt
BDO181	INDUSTR&_ORGPSYCHOLOGY_181	J1	4	4 0		2.5
BER220	BUSINESS_LAW_220	S2	3	0	0 16	
INB320	INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110]	1	1		12	
IPO380	INTERIOR_EXPERIENTIAL_TRAI.380	S2	1	0		10
OBS223	ENTREPRENEURSHIP_223	S2	3	0		16
OKU220	DESIGN_COMMUNICATION_220	S2	1	0		8
SEM380	SEMINAR_380 Prerequisite/s: [SEM180]	S2	2	0		6
	Totals for compulsory modules in the third/fourth quarter		15/15	1/1	35.2	5/35.2
	Compulsory credits = (129) Elective credits :	= (0)				
Fourth y	ear, first semester:					
Code	Name		Q	rt Ipv	v ppw	Crdt
INB410	INTERIOR_PLANNING_410 Prerequisite/s: [INB320] and [OKU220]				1	10
ITP480	PROJECT_INTERIOR_MERCH480 Prerequisite/s: [SEM320] and				0	10
	[Final year status]					
OBS313	ENTREPRENEURSHIP_313		S	1 3	0	20
VBF410	CONSUMER_FACILITATION_410		S	1 3	0	8
	Totals for compulsory modules in the first/second quarter			8/	8 1/1	24/24
Fourth y	ear, second semester:					
Code	Name		Qrt	lpw	ppw	Crdt
IPO480	INTERIOR_EXPERIENTIAL_TRAI.480		S2	1	0	10
ITP480	PROJECT_INTERIOR_MERCH480 Prerequisite/s: [SEM320]	and [J1	1	0	10
	Final year status]					
	SOUTH_AFRICAN_ART:_THEMES_356		K4	3	0	15
	ENTREPRENEURSHIP_323		S2	3	0	20
	TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS	S221]	S2	3	0	8
VKK353	DECODING_VISUAL_CULTURE_353		K3	2	0	15
	Totals for compulsory modules in the third/fourth quarter			10/11	0/0	39/39
	Compulsory credits = (126) Elective credits :	- (0)				
	Compaisory ordates = (120) Elective credits	- (v)				

Field of study	Dept	Code
BCons.Sc.: Development	VBR	02130118

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
KLR110	CLOTHING_PRODUCTION_110	S1	1	1	12

	PRINCIPLES_OF_DESIGN_110	S1	2	1	12
	BUSINESS_MANAGEMENT_156	K2	3	0	5
	PSYCHOLOGICAL_PERSPECTIVES_151	K1	2	0	6
	COGNITIVE_PROCESSES_152	K2	2	0	6
SOC151	SOCIAL_ORGANISAT.&_INDIVID.151	K1	3	0	6
SOC152	SOCIAL_INSTITUTIONS_152	K2	3	0	6
VDS110	FOODS_110	S1	3	0	8
	Totals for compulsory modules in the first/second quarter		15/18	2/2	34/39
First yea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
CIL174	COMPUTER_&_INFORM.LITERACY_174	K4	2	0	3
EOT153	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
EOT154	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
ITW120	INTERIOR_MERCHANDISE_120	S2	2	1	12
KLR120	CLOTHING_PRODUCTION_120 Prerequisite/s: [KLR110]	S2	1	1	12
SEM180	SEMINAR_180	S2	2	0	6
SLK155	ENVIRONMENTAL_PSYCHOLOGY_155	S2	2	0	6
	Totals for compulsory modules in the third/fourth quarter		11/11	2/2	24/24
	Compulsory credits = (121) Elective credits = (10)				
	· , , , , , , , , , , , , , , , , , , ,				
Second y	rear, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
ERG280	ERGONOMICS_280	S1	2	1	8
KLR210	CLOTHING_PRODUCTION_210 Prerequisite/s: [KLR120]	S1	1	1	12
SLK251	PERSONOLOGY_251 Prerequisite/s: [SLK151] and [SLK152]	K1	2	0	10
SLK253	DEVELOPMENT_PSYCHOLOGY_253	K2	2	0	10
TKS210	TEXTILES_210	S1	3	1	14
VDS210	FOODS_210	S1	3	1	16
	Totals for compulsory modules in the first/second quarter		11/11	4/4	35/35
Second y	rear, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
ITW220	INTERIOR_MERCHANDISE_220	S2	2	1	12
KEP220	CULTURAL_EATING_PATTERNS_220	S2	3	0	8
KOB181	COMMUNICATION_MANAGEMENT_181	K3	3	0	5
SLK254	SOCIAL_PSYCHOLOGY_254	K3	2	0	10
SLK255	PERSPECTIVES_ON_THE_FAMILY_255	K3	2	0	10
SOC259	HOUSEHOLDFAMILY_&_GENDER_259	K3	3	1	10
TKS220	TEXTILES_220 Prerequisite/s: [TKS210]	S2	3	1	14
	TEXTILES_221 Prerequisite/s: [TKS220 GS]	S2	0	1	6
	FOODS_221 Prerequisite/s: [VDS210]	S2	3	1	16
	Totals for compulsory modules in the third/fourth quarter		21/11	5/4	63/28
	1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×				
ERG280	can be taken in the second semester.				
	Compulsory credits = (161) Elective credits = (13)				
Third yea	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	HOUSING_311	S1	2	0	6
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FAMILY_STUDIES_310 Prerequisite/s: [Prescribed Psychology &	S1	2	0	8
Sociology modules up to 200 level]			.	
INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210]	S1	2	1	12
NUTRITION_212 Prerequisite/s: [KEP220]	S1	4	1	10
FOODS_353 Prerequisite/s: [VDS220] and [VDS221]	K1	3	1	8
FOODS_354	K2	3	0	4
Totals for compulsory modules in the first/second quarter		13/13	3/2	26/22
r, second semester:				
Name	Qrt	lpw	ppw	Crdt
INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110]	S2	1	1	12
INTERIOR_MERCHANDISE_220	S2	2	1	12
CLOTHING_221	S2	3	0	8
CLOTHING_320	S2	4	0	12
CLOTHING_321 Prerequisite/s: [TKS220 GS]	S2	2	0	6
ENTREPRENEURSHIP_123	S2	3	0	10
SEMINAR_380 Prerequisite/s: [SEM180]	S2	2	0	6
NUTRITION_320 Prerequisite/s: [VDG310]	S2	3	1	14
Totals for compulsory modules in the third/fourth quarter		20/20	3/3	40/40
Compulsory credits = (128) Elective credits = (0)				
ear, first semester:				
Name	(Qrt Ipw	ppw	Crdt
HOME_MANAGEMENT_410 Prerequisite/s: [Fourth-year status]	5	S1 2	0	8
INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and	9	31 2	1	12
[TKS210]				
CONSUMER_FACILITATION_410	93	31	0	8
EXTENSION_310 Prerequisite/s: [Fourth-year status]	93	31 1	2	12
Totals for compulsory modules in the first/second quarter		8/8	3/3	20/20
ear, second semester:				
Name	Qrt	lpw	ppw	Crdt
HOME_MANAGEMENT_420 Prerequisite/s: [HBS410 GS]	S2	2	0	8
CLOTHING_321 Prerequisite/s: [TKS220 GS]	S2	2	0	6
TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221]	S2	3	0	8
TEXTILES_420 Prerequisite/s: [TKS210] and [TKS220] and [TKS221] FOODS_321 Prerequisite/s: [VDS210] and [VDS221]	S2 S2	3	1	8 14
	_			
FOODS_321 Prerequisite/s: [VDS210] and [VDS221]	S2	3	1	14
FOODS_321 Prerequisite/s: [VDS210] and [VDS221] FOODS_423	S2 S2	3	1	14
FOODS_321 Prerequisite/s: [VDS210] and [VDS221] FOODS_423 EXTENSION_320 Prerequisite/s: [VLG310 GS]	S2 S2	3 3 1	1 0 2	14 8 12
FOODS_321 Prerequisite/s: [VDS210] and [VDS221] FOODS_423 EXTENSION_320 Prerequisite/s: [VLG310 GS]	S2 S2	3 3 1	1 0 2	14 8 12
FOODS_321 Prerequisite/s: [VDS210] and [VDS221] FOODS_423 EXTENSION_320 Prerequisite/s: [VLG310 GS] Totals for compulsory modules in the third/fourth quarter	S2 S2	3 3 1	1 0 2	14 8 12
	NUTRITION_212 Prerequisite/s: [KEP220] FOODS_353 Prerequisite/s: [VDS220] and [VDS221] FOODS_354 Totals for compulsory modules in the first/second quarter r, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] INTERIOR_MERCHANDISE_220 CLOTHING_221 CLOTHING_320 CLOTHING_321 Prerequisite/s: [TKS220 GS] ENTREPRENEURSHIP_123 SEMINAR_380 Prerequisite/s: [SEM180] NUTRITION_320 Prerequisite/s: [VDG310] Totals for compulsory modules in the third/fourth quarter Compulsory credits = (128) Elective credits = (0) Par, first semester: Name HOME_MANAGEMENT_410 Prerequisite/s: [Fourth-year status] NTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and TKS210] CONSUMER_FACILITATION_410 EXTENSION_310 Prerequisite/s: [Fourth-year status] Totals for compulsory modules in the first/second quarter car, second semester: Name	NUTRITION_212 Prerequisite/s: [KEP220] S1 FOODS_353 Prerequisite/s: [VDS220] and [VDS221] K1 FOODS_354 K2 Totals for compulsory modules in the first/second quarter r, second semester: Name Qrt INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] S2 INTERIOR_MERCHANDISE_220 S2 CLOTHING_221 S2 CLOTHING_320 Prerequisite/s: [TKS220 GS] S2 CLOTHING_321 Prerequisite/s: [TKS220 GS] S2 ENTREPRENEURSHIP_123 S2 SEMINAR_380 Prerequisite/s: [SEM180] S2 NUTRITION_320 Prerequisite/s: [VDG310] S2 Totals for compulsory modules in the third/fourth quarter Compulsory credits = (128) Elective credits = (0) PART, first semester: Name (CHOME_MANAGEMENT_410 Prerequisite/s: [Fourth-year status] NTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and TKS210] CONSUMER_FACILITATION_410 SEXTENSION_310 Prerequisite/s: [Fourth-year status] Totals for compulsory modules in the first/second quarter start, second semester: Name Qrt	NUTRITION_212 Prerequisite/s: [KEP220]	NUTRITION_212 Prerequisite/s: [KEP220]

Field of study	Dept	Code
BCons.Sc. Ed: Home Economics	VBR	02130119

First year	r, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt

CIL171	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3
CIL172	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3
EOT151	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3
EOT152	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3
INK110	INTERIOR_PRODUCTION_110	S1	1	1	12
OBG110	PRINCIPLES_OF_DESIGN_110	S1	2	1	12
OBS110	BUSINESS_MANAGEMENT_110	S1	3	0	10
SCE170	RELIGIOUS_INSTRUCTION_170	J1	1	0	3
SCI153	ACADEMIC_PROFICIENCY_153	K1	0	1	6
VDS110	FOODS_110	S1	3	0	8
	Totals for compulsory modules in the first/second quarter		14/14	3/2	34.5/28.5
KLR110 (can be taken instead of INK110.				
First vea	r, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
_	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3
	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3
	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3
	INTERIOR_MERCHANDISE_120	S2	2	1	12
	CULTURAL EATING PATTERNS 220	S2	3	0	8
	CLOTHING_PRODUCTION_120 Prerequisite/s: [KLR110]	S2	1	1	12
	BUSINESS_MANAGEMENT_120	S2	3	0	10
	RELIGIOUS_INSTRUCTION_170	J1	1	0	3
	SEMINAR 180	S2	2	0	6
02	Totals for compulsory modules in the third/fourth quarter	0_	16/14	2/2	31.5/28.5
	Totale for comparedly mediated in the annual earth quarter		10/11	_,_	0110/2010
	Compulsory credits = (123) Elective credits =	(0)			
	Compared y Ground - (120) Elective Ground -	(0)			
Second v	year, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	ERGONOMICS 280	S1	2	1	8
_	INTERIOR_PRODUCTION_210 Prerequisite/s: [INK110]	S1	1	1	12
	SCIENCE_EDUCATION_200	J1	2	1	9
	TEXTILES_210	S1	3	1	14
	FOODS_210	S1	3	1	16
VD0210	Totals for compulsory modules in the first/second quarter	O.	11/11	5/5	29.5/29.5
KI D210 /	can be taken instead of INK210.		1 1/ 1 1	5/5	20.0/20.0
INLINZ IU (can be taken instead of INKZTO.				
Cocond.	year accord comester.				
	year, second semester:	Qrt	lpw	ppw	Crdt
1.040	Nama		11 11/1/		Crai
Code	Name				12
ITW220	INTERIOR_MERCHANDISE_220	S2	2	1	12
ITW220 SCE200	INTERIOR_MERCHANDISE_220 SCIENCE_EDUCATION_200	S2 J1	2	1	9
ITW220 SCE200 TKS220	INTERIOR_MERCHANDISE_220 SCIENCE_EDUCATION_200 TEXTILES_220 Prerequisite/s: [TKS210]	S2 J1 S2	2 2 3	1 1	9 14
ITW220 SCE200 TKS220 TKS221	INTERIOR_MERCHANDISE_220 SCIENCE_EDUCATION_200 TEXTILES_220 Prerequisite/s: [TKS210] TEXTILES_221 Prerequisite/s: [TKS220 GS]	S2 J1 S2 S2	2 2 3 0	1 1 1	9 14 6
ITW220 SCE200 TKS220 TKS221 VDG220	INTERIOR_MERCHANDISE_220 SCIENCE_EDUCATION_200 TEXTILES_220 Prerequisite/s: [TKS210] TEXTILES_221 Prerequisite/s: [TKS220 GS] NUTRITION_220	S2 J1 S2 S2 S2	2 2 3 0	1 1 1 1 1	9 14 6 8
ITW220 SCE200 TKS220 TKS221 VDG220 VDS221	INTERIOR_MERCHANDISE_220 SCIENCE_EDUCATION_200 TEXTILES_220 Prerequisite/s: [TKS210] TEXTILES_221 Prerequisite/s: [TKS220 GS]	S2 J1 S2 S2	2 2 3 0	1 1 1	9 14 6

	Totals for compulsory modules in the third/fourth quarter	13	3/13 5/	6 32	.5/38.5
	Compulsory credits = (130) Elective credits = (0)				
Third yea	ar, first semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	HOUSING_311	S1	4	0	12
	SCIENCE_EDUCATION_300	J1	2	4	21
	TEACHING_PRACTICE_302	J1	0	0	31
VDG310	NUTRITION_310 Prerequisite/s: [FSG110 or VDG220] and [FSG120 or VDG163]	S1	3	1	14
VDS353	FOODS_353 Prerequisite/s: [VDS220] and [VDS221]	K1	3	1	8
VDS354	FOODS_354	K2	3	0	4
VHK310	DIDACTICS:HOME_ECONOMICS_310 Prerequisite/s: [VHK262]	S1	4	1	18
	Totals for compulsory modules in the first/second quarter		16/16	7/6	56/52
Third vea	ar, second semester:				
Code	Name	Qrt	lpw	ppw	Crdt
	CLOTHING_221	S2	3	0	8
	CLOTHING_321 Prerequisite/s: [TKS220 GS]	S2	2	0	6
	SCIENCE EDUCATION 300	J1	2	4	21
	TEACHING PRACTICE 302	J1	0	0	31
	NUTRITION_320 Prerequisite/s: [VDG310]	S2	3	1	14
	FOODS_320 Prerequisite/s: [KEP220] and [KEP261] and [VDS220]	S2	5	2	30
	and [VDS221]				
	Totals for compulsory modules in the third/fourth quarter		45/45	- /-	55/55
	rotals for compulsory modules in the third/lourth quarter		15/15	7/7	55/55
	Totals for compulsory modules in the third/fourth quarter		15/15	///	55/55
	· · ·		15/15	7/7	55/55
	Compulsory credits = (218) Elective credits = (0)		15/15	7/7	55/55
Fourth ye	· · ·		15/15	///	55/55
Fourth ye	Compulsory credits = (218) Elective credits = (0)	Qrt	15/15	ppw	Crdt
Code	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and	Qrt S1			
Code ITW310	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210]	S1	lpw	ppw	Crdt
Code ITW310 SCE400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400		lpw 2	ppw 1	Crdt 12
Code ITW310 SCE400 SCE402	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402	S1 J1	lpw 2	ppw 1 0	Crdt 12 22
Code ITW310 SCE400 SCE402 VBM400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400	S1 J1 J1	lpw 2 4 0	ppw 1 0	Crdt 12 22 14
Code ITW310 SCE400 SCE402 VBM400 VHK400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310]	S1 J1 J1 J1	lpw 2 4 0 2	ppw 1 0 0	Crdt 12 22 14 12
Code ITW310 SCE400 SCE402 VBM400 VHK400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400	S1 J1 J1 J1 J1	lpw 2 4 0 2 0	ppw 1 0 0 1	Crdt 12 22 14 12 6
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter	S1 J1 J1 J1 J1	lpw 2 4 0 2 0 2	ppw 1 0 0 1 1 2	Crdt 12 22 14 12 6 26
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410	S1 J1 J1 J1 J1	lpw 2 4 0 2 0 2 10/10	ppw 1 0 0 1 1 2 5/5	Crdt 12 22 14 12 6 26
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name	S1 J1 J1 J1 J1 S1	lpw 2 4 0 2 0 2 10/10	ppw 1 0 0 1 1 2	Crdt 12 22 14 12 6 26 46/46
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester:	S1 J1 J1 J1 S1 Qrt	lpw 2 4 0 2 0 2 10/10 lpw	ppw 1 0 0 1 1 2 5/5	Crdt 12 22 14 12 6 26 46/46 Crdt
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110]	S1 J1 J1 J1 S1 S1 Qrt S2	lpw 2 4 0 2 0 2 10/10 lpw 1	ppw 1 0 0 1 1 2 5/5 ppw 1	Crdt 12 22 14 12 6 26 46/46 Crdt 12
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320 OBS123	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] CLOTHING_320 ENTREPRENEURSHIP_123	S1 J1 J1 J1 S1 Qrt S2 S2	Ipw 2 4 0 2 0 2 10/10 Ipw 1 4	ppw 1 0 0 1 1 2 5/5	Crdt 12 22 14 12 6 26 46/46 Crdt 12 12
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320 OBS123 SCE400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] CLOTHING_320 ENTREPRENEURSHIP_123 SCIENCE_EDUCATION_400	S1 J1 J1 J1 S1 Qrt S2 S2 S2	Ipw 2 4 0 2 0 2 10/10 Ipw 1 4 3 3	ppw 1 0 0 1 1 2 5/5	Crdt 12 22 14 12 6 26 46/46 Crdt 12 12 10
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320 OBS123 SCE400 SCE402	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] CLOTHING_320 ENTREPRENEURSHIP_123 SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402	S1 J1 J1 J1 S1 S1 Qrt S2 S2 S2 J1 J1	Ipw 2 4 0 2 0 2 10/10 Ipw 1 4 3 4	ppw 1 0 0 1 1 2 5/5	Crdt 12 22 14 12 6 26 46/46 Crdt 12 12 10 22
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320 OBS123 SCE400 SCE402 VBM400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] CLOTHING_320 ENTREPRENEURSHIP_123 SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400	S1 J1 J1 J1 S1 Qrt S2 S2 S2 J1	Ipw 2 4 0 2 0 2 10/10 Ipw 1 4 3 4 0 0	ppw 1 0 0 1 1 2 5/5 ppw 1 0 0 0 0 0 0	22 14 12 6 26 46/46 Crdt 12 12 10 22 14
Code ITW310 SCE400 SCE402 VBM400 VHK400 VWP410 Fourth ye Code INB320 KLD320 OBS123 SCE400 SCE402 VBM400	Compulsory credits = (218) Elective credits = (0) ear, first semester: Name INTERIOR_MERCHANDISE_310 Prerequisite/s: [ITW120] and [TKS210] SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402 SUBJ_DID:BUSINESS_MANGEMNT_400 SUBJECT_DIDACTICS:HOME_ECON400 Prerequisite/s: [VHK310] PROJECT:_HOME_ECONOMICS_410 Totals for compulsory modules in the first/second quarter ear, second semester: Name INTERIOR_PLANNING_320 Prerequisite/s: [ITW310] and [OBG110] CLOTHING_320 ENTREPRENEURSHIP_123 SCIENCE_EDUCATION_400 TEACHING_PRACTICE_402	S1 J1 J1 J1 S1 S1 Qrt S2 S2 J1 J1 J1 J1 J1 S2 S2 S2 J1 J1	Ipw 2 4 0 2 0 2 10/10 Ipw 1 4 3 4 0 2 2	ppw 1 0 0 1 1 2 5/5 ppw 1 0 0 0 0 1 1	Crdt 12 22 14 12 6 26 46/46 Crdt 12 10 22 14 12

Compulsory credits = (180) Elective credits = (0)
A minimum of (651) credits is required to obtain the degree.

Field of study	Dept	Code
BCons.Sc. Ed: Hotel-Keeping and Catering	VBR	02130120

First was	r first samestar.						
	r, first semester:	- ·			0 1		
Code	Name	Qrt	lpw	ppw	Crdt		
	COMPUTER_&_INFORM.LITERACY_171	K1	2	0	3		
	COMPUTER_&_INFORM.LITERACY_172	K2	2	0	3		
	LANGUAGE_PROFICIENCY_(1)_151	K1	2	0	3		
	LANGUAGE_PROFICIENCY(2)_152	K2	2	0	3		
	PRINCIPLES_OF_DESIGN_110	S1	2	1	12		
	BUSINESS_MANAGEMENT_110	S1	3	0	10		
	RELIGIOUS_INSTRUCTION_170	J1	1	0	3		
	ACADEMIC_SKILLS_153	K1	0	1	6		
	TOURISM_MANAGEMENT_110	S1	4	0	10		
VDS110	FOODS_110	S1	3	0	8		
	Totals for compulsory modules in the first/second quarter		17/17	2/1	33.5/27.5		
	r, second semester:	١		1			
Code	Name	Qrt	lpw	ppw	Crdt		
CIL173	COMPUTER_&_INFORM.LITERACY_173	K3	2	0	3		
	LANGUAGE_PROFICIENCY(3)_153	K3	2	0	3		
	LANGUAGE_PROFICIENCY(4)_154	K4	2	0	3		
	INTERIOR_MERCHANDISE_120	S2	2	1	12		
	BUSINESS_MANAGEMENT_120	S2	3	0	10		
	RELIGIOUS_INSTRUCTION_170	J1	1	0	3		
	SEMINAR_180	S2	2	0	6		
TBE120	TOURISM_MANAGEMENT_120	S2	4	0	10		
Totals for compulsory modules in the third/fourth quarter			16/14	1/1	26.5/23.5		
	Compulsory credits = (111) Elective credits =	(0)					
Second y	year, first semester:						
Code	Name	Q		ppw	Crdt		
	SCIENCE_EDUCATION_200	J	_	1	9		
	TEXTILES_211	K		1	7		
VDS210	FOODS_210	S	1 3	1	16		
	Totals for compulsory modules in the first/second quarter		8/5	3/2	19.5/12.5		
Second y	year, second semester:						
Code	Name	Qrt	lpw	ppw	Crdt		
ITW220	INTERIOR_MERCHANDISE_220	S2	2	1	12		
KEP220	CULTURAL_EATING_PATTERNS_220	S2	3	0	8		
SCE200	SCIENCE_EDUCATION_200	J1	2	1	9		
TBE220	TOURISM_MANAGEMENT_220	S2	4	0	16		
VDG220	NUTRITION_220	S2	3	0	8		
VDCCCA	FOODS_221 Prerequisite/s: [VDS210]	S2	3	1	16		

VHK262 DIDACTICS:HC	OME_ECONOMICS_262	K4	0		1	6
Totals for con	npulsory modules in the third/fourth quarter		17/	17 3	4 34	1.5/40.5
	Compulsory credits = (107) Elective credits = (0)				
Third year, first semest						
Code	Name		Qr			Crdt
SCE300 SCIENCE_EDU			J1	_	4	21
SCE302 TEACHING_PR			J1		0	31
VDG310 NUTRITION_31 VDG163]	10 Prerequisite/s: [FSG110 or VDG220] and [FSG1	20 o	r S1	3	1	14
VHK310 DIDACTICS:HC	OME_ECONOMICS_310 Prerequisite/s: [VHK262]		S1	4	1	18
Totals for o	compulsory modules in the first/second quarter			9/9	6/6	42/42
Third year, second sem	nester:					
Code	Name	G	(rt	lpw	ppw	Crdt
SCE300 SCIENCE_EDU		·	J1	2	4	21
SCE302 TEACHING_PR	RACTICE_302	·	J1	0	0	31
VDB320 FOOD_SERVIC	E_MANAGEMENT_320 Prerequisite/s: [VDS320 #] 8	32	4	1	20
VDS320 FOODS_320 Pr and [VDS221]	rerequisite/s: [KEP220] and [KEP261] and [VDS220	0] [S	32	5	2	30
Totals for co	ompulsory modules in the third/fourth quarter		1	1/11	7/7	51/51
	Compulsory credits = (186) Elective credits = (0)				
Fourth year, first semes	ster:					
Code	Name		Qrt	lpw	ppw	Crdt
SCE400 SCIENCE_EDU	UCATION_400		J1	4	0	22
SCE402 TEACHING_PF	_		J1	0	0	14
	SINESS_MANGEMNT_400		J1	2	1	12
VDS354 FOODS_354			K2	3	0	4
	RT_414 Prerequisite/s: [VDS210] and [VDS221]		S1	2	1	14
	DACTICS:HOME_ECON400 Prerequisite/s: [VHK31	0]	J1	0	1	6
VWP411 PROJECT:HOT			S1	0	2	18
	ompulsory modules in the first/second quarter			8/11	5/5	43/47
Fourth year, second se						ī
Code	Name	_	rt	lpw	ppw	Crdt
OBS123 ENTREPRENE		_	32	3	0	10
SCE400 SCIENCE_EDU		_	J1	4	0	22
SCE402 TEACHING_PR		_	J1	0	0	14
TBE320 TOURISM_MAN		_	32	4	0	20
	SINESS_MANGEMNT_400		J1	2	1	12
VDS424 CULINARY_AR [VDS414]	RT_424 Prerequisite/s: [VDS210] and [VDS221] an	d S	32	2	1	14
VHK400 SUBJECT_DID	ACTICS:HOME_ECON400 Prerequisite/s: [VHK31	0] (l1	0	1	6
Totals for co	ompulsory modules in the third/fourth quarter		1	5/15	3/3	49/49
	Compulsory credits = (188) Elective credits = (0)				

Sc.7.6 BACCALAUREUS SECUNDAE EDUCATIONIS (SCIENTIAE) BSecEd(Sci) (Code 02135001)

(a) Articulation possibilities

Candidates who meet all the requirements for the DipEd(Sci), can be considered for admission to studies for the BSecEd(Sci). Applicable modules that have been passed, will be recognized for the degree.

(b) Admission requirements

A Grade 12 certificate with university exemption, with Mathematics and Physical Science at higher grade with at least 50% (D), as well as two official languages, including English or Afrikaans (first or second language) at higher grade with at least 50% (D).

The Extended Programme: Biological and Natural Sciences is also applicable with regards to the BSecEd(Sci) degree.

NB: Candidates who do not comply with the requirement regarding Physical Science may only be admitted to the degree if the study programme is compiled from modules for which Physical Science is not a prerequisite.

(16)

(16)

Par.1.2

Par.1.2

at 200 level

(c) Duration

Four years of full-time study.

(d) Curriculum

WTW 134

A minimum of 626 credits are required to obtain the degree.

Language Endorsement 400

Mathematics 134

raculty Requ	ilrement (16)
WTW 114	Calculus 114 or

*****	Wationation 101	(10)	1 41.1.2
General Regi	uirement (258)		
SCI 152 Comp	outer and Problem-solving Skills 152	(12)	
SCI 153	Academic Skills 153	(6)	
SCI 162	Computer and problem-solving skills	(12)	
SCI 163	Basic Research Skills 163	(6)	
EOT 151	Language Skills 151	(3)	
EOT 152	Language Skills 152	(3)	
EOT 153	Language Skills 153	(3)	
EOT 154	Language Skills 154	(3)	
SCE 170	Religious Instruction 170	(6)	
SCE 200	Science Education 200	(18)	
SCE 300	Science Education 300	(42)	SCE 200
SCE 301	Educational Community Project 301	(28)	SCE 200
SCE 302	School Practice 302	(62)	SCE 200
SCE 400	Science Education 400	(44)	SCE 300
SCE 402	School Practice 402	(28)	Two school subjects

Additional requirement

Two year modules† at 200 level, both of which should be recognized school subjects.

Limited choice (72)

TED 400

Two subject didactics from:

SCE 471 Subject Didactics of Biology 471

(36) BLG 150,160/ MLB 111, ZEN 161/ BOT 161

SCE 472	Subject Didactics of Geography 472	(36)	GGY 151,132, GGY 161,162
SCE 473	Subject Didactics of Agriculture 473	(36)	TDH
SCE 474	Subject Didactics of Physical		
	Science 474	(36)	PHY 171;
			CMY 152,153
SCE 475	Subject Didactics of Computer		
	Studies 475	(36)	COS 110,212,283
SCE 476	Subject Didactics of Mathematics 476	(36)	WTW 114/126,128

At least 72 credits at 300 level of a single year module (two sequential semester modules) that is presented in the Faculty of Natural and Agricultural Sciences.

Outstanding credits

Outstanding credits are compiled from two additional year modules† (consisting of two consecutive semester modules each), which can be a third subject didactics, and a semester module, or a year module of at least 16 credits.

Students may, in consultation with the Dean, take modules not listed in the Syllaby and which are the equivalent of a maximum of 36 credits.

† A year module is two successive semester modules.

TDH Indicates that permission from the head of department must be obtained.

(e) Teaching Practice

A student must gain teaching experience by means of:

- (i) Attending demonstration lessons.
- (ii) School Practice 302 and 402.
- (iii) Compulsory Subject Didactics modules.
- (iv) Educational Community Project (SCE 301).

(f) Language Endorsement

Students must demonstrate the ability to teach in at least two official languages, of which one must be either English or Afrikaans.

(g) Compulsory language modules

Subject to satisfactory performance in the prescribed language test, all or some of the above language skills modules (EOT 151–154), may be replaced by approved language modules of equal weight.

(h) Religious Instruction (SCE 170)

Required by the Department of Education. A student may apply for exemption on the grounds of conscientious objection, only if a course of at least 6 credits is taken instead of Religious Instruction.

(i) Professional studies

Professional studies consist of the required Subject Didactics, the Educational Community Project (SCE 301) and Sciences (SCI 152, 153 or 163).

(i) Education

Education consist of Science Education (SCE 200, 300 and 400).

(k) Recognized School Subjects

Course	Level	Modules
Biology*††	100	BLG 150,160 or MLB 111 and ZEN 161 and BOT 161
Biology*††	200	Appropriate modules in Botany or Zoology/Entomology or
		Physiology at 200 level.
Chemistry**	100	CMY 117, 127/101,102
Chemistry**	200	CMY 282,283,284,285
Physics**	100	PHY 171/101,102
Physics**	200	PHY 216,225,226
Natural Science	200	GLY 151, GGY 252, 361 or 362,
		GLY 162 or GGY 164 or
		combination of appropriate modules in Chemistry and
		Physics at 200 level, on the recommendation of the head
		of department and with the approval of the Dean.
Geography	100	GGY 132, 153, 154, GGY 162, 163, 164
Geography	200	GGY 252, 283, 263, 264
Agriculture††	100	In consultation with the Programme Manager: Natural and
		Agricultural Sciences
Agriculture††	200	In consultation with the Programme Manager: Natural and
		Agricultural Sciences
Computer Science	100	COS 110, COS 160/COS 130 or 212, 283
Computer Science	200	4 modules from:
		COS 212, 213, 221, 222, 283,284.
		COS 212 and 283 may not both count up to 100 and 200
		level.
Mathematics	100	WTW 114/101,126,128/102; or WTW 134,144
Mathematics	200	WTW 211, 389 plus a suitable combination of credits to
		the value of 24 from WTW

NB: All modules of a course must be passed for the course to be recognized as a school subject.

- * Zoology, Botany and Biology are the equivalent of only one recognised school subject.

 A recognised module must be passed at 100 level.
- ** Physics, Chemistry and Physical Science are the equivalent of only one recognised school subject and is only accepted if a full year module (two consecutive semester modules) is passed in both Chemistry and Physics at 100 level.
- †† The combination BLG 150,160,250, BOT 227 is the equivalent of Biology at 200 level, but does not lead to admission to courses at 300 level. The combination with MLB 111, BOT 161, ZEN 161 together with appropriate second-year courses in Zoology, Botany and Physiology can lead to admission to courses at 300 level.

(I) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who requires a maximum of 48 credits to comply with all the requirements for the degree, may be admitted by the Dean on the recommendation of the relevant head(s) of department, to special examinations in the modules he or she has failed, provided that this will enable them to qualify for the degree. Students with a final mark of less than 40% in any of the failed modules, or who have previously been admitted to a special examination, do not qualify for a special examination.

(m) Degree with distinction

The BSecEd(Sci) degree is conferred with distinction on a student who obtains a weighted average of at least 75% in:

- (i) A compulsory year module at 300 level.
- (ii) One Subject Didactics.
- (iii) Science Education 400.
- (iv) School Practice 402.

A weighted average of at least 65% in the other modules at 400 level is an additional requirement.

Sc.7.7 DIPLOMAS

A Grade 12 certificate must be included in all applications.

DIPLOMA IN EDUCATION WITH SPECIALISATION IN SCIENCES FOR THE SECONDARY PHASE [DipEd(Sci)] (Code 02120700)

(a) Admission requirements

A Grade 12 certificate with university exemption and Mathematics and Physical Science at higher grade with at bast 50% (D), as well as two official languages, including English or Afrikaans (first or second language) at higher grade with at least 50% (D). The Extended Programme also applies to the DipEd(Sci).

Exit Level: Admission requirement

Students who have been registered for at least one year for the BSecEd(Sci), BSc, BSc(Agric) or the Science: Extended Programme or Biological and Agricultural Sciences: Extended Programme, may be considered for admission to DipEd(Sci) study. Applicable modules can be recognized for the Diploma.

NB: Students who do not comply with the requirement regarding Physical Science, may only be admitted to the diploma if the study programme is compiled from modules for which Physical Science is not a prerequisite.

(b) Duration

Three years of full-time study.

(c) Curriculum

A minimum of 480 credits is required to obtain the diploma.

Module code	<u>Description</u>	<u>Credits</u>	<u>Prerequisites</u>
Faculty requir WTW 101	rement (32)	(32)	Par.1.2
General Requ	irement (183)		
SCI 152	Computer and Problem-solving		
	Skills 152	(12)	
SCI 153	Academic Skills 153		(6)
SCI 163	Basic Research Skills 163	(6)	
CIL 173	Spread Sheet 173	(3)	
EOT 151	Language Skills 151	(3)	
EOT 152	Language Skills 152	(3)	

EOT 153	Language Skills 153	(3)	
EOT 154	Language Skills 154	(3)	
SCE 170	Religious Instruction 170	(6)	
SCE 200	Science Education 200	(18)	
SCE 300	Science Education 300	(42)	SCE 200 and one subject didactic
SCE 301	Educational Community Project	(28)	SCE 200 and one subject didactic
SCE 302	Teaching Practice 302	(62)	SCE 200 and one subject didactic
TED 400	Language Endorsement 400		

Additional requirement

One year module† to 200-level which is recognized as a school subject.

One year module† to at least 100-level which is recognized as a school subject.

Limited choice (72)

Two didactic courses from

SCE 471	Subject Didactics of Biology 471	(36)	BLG 150, 160 or MLB111and ZEN161 or
			BOT161
SCE 472	Subject Didactics of Geography 472	(36)	GGY132, 151,161,162
SCE 473	Subject Didactics of Agriculture 473	(36)	TDH
SCE 474	Subject Didactics of Physical		
	Science 474	(36)	PHY 171, CMY 152
SCE 475	Subject Didactics of		
	Computer Studies 475	(36)	COS 110/CIL 171,
			172,173 and COS
			130/160
SCE 476	Subject Didactics of Mathematics 476	(36)	WTW 101, 102

Outstanding credits

Outstanding credits are compiled from one additional year module and a semester module or year module of at least 16 units. It is recommended that the year module be a language module.

Students may, in consultation with the Dean, take modules not listed in the Syllabi and which are the equivalent of a maximum of 36 credits.

† A year module is two successive semester modules.

TDH Indicates that permission from the head of department must be obtained.

(d) Teaching Practice

A student must gain teaching experience by means of:

- (i) Attending demonstration lessons.
- (ii) Teaching Practice 302.
- (iii) Compulsory Subject Didactics courses.
- (iv) Educational Community Project (SCE 301).

(e) Language Endorsement

A student must prove his or her ability to teach in at least two official languages of which one should be either English or Afrikaans.

(f) Religious Instruction (SCE 170)

This is required by the Department of Education. A student may on the grounds of conscientious objection apply in writing for exemption, in which case a course of at least 6 credits has to be taken in the place of Religious Instruction.

(g) Compulsory language modules

Subject to satisfactory performance in the prescribed language test, all or some of the above language skills modules (EOT 151–154) may be replaced by approved language modules of equal weight.

(h) Professional studies

Professional studies consist of the required Subject Didactics, the Educational Community Project (SCE 301) and Science Orientation (SCI 152, 153, 163)

(i) Education

Education consists of Science Education SCE 200 and SCE 300.

(j) Recognized School Subjects

Refer to Sc 7.6 (k)

(k) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who requires a maximum of 48 credits to comply with all the requirements for the degree, may be admitted by the Dean on the recommendation of the relevant head(s) of department to special examinations in the module(s) he or she has failed, provided that this will enable them to qualify for the degree. Students with a final mark of less than 40% in any of the failed modules, or who have previously been admitted to a special examination, do not qualify for a special examination.

(I) Diploma awarded with distinction

The DipEd(Sci) is conferred with distinction on a student who obtains a weighted average of at least 75% in the compulsory year course at 200-level, one subject didactics, Science Education 300, and Teaching Practice 302, with a weighted average of at least 65% over-all in modules recognized for the diploma.

(m) Recognition of subject modules for the BSecEd(Sci) degree

A student who meets all the requirements for the diploma, may complete the BSecEd(Sci) at a later stage. Subject courses presented for the DipEd(Sci) may be presented for the BSecEd(Sci).

POSTGRADUATE DIPLOMA IN EARTH SCIENCE PRACTICE AND MANAGEMENT (Code 02220043)

(a) Admission requirements

BSc(Hons) in Geology or an equivalent four-year degree, or any other qualification deemed by the Senate in terms of Regulation G.62 to be equal. Additional preparatory course work may be required by the head of the department.

(b) Duration and curriculum

The minimum duration is two years of part-time studies. Die curriculum is determined in consultation with the head of department. The courses consist of theoretical modules.

(c) Examination admission and pass requirements

To be admitted to the examination, a student must have a semester or year mark of at least 40 %. A subminimum of 40% is required in the examination to pass, and the final mark must be 50% or higher.

In some modules a semester or year mark may not be required. In such cases, the examination mark must be 50% or higher to pass. The modules where this is the case, are indicated in the departmental guides.

(d) Diploma with distinction

The diploma is awarded with distinction if a student obtains an average of at least 75% in 50% of the theoretical modules (based on course credits), as well as an average of at least 65% in the remaining theoretical modules.

(e) Articulation possibilities for admission to Magister Scientiae in Earth Science Practice and Management

Successful completion of the Diploma can offer admission by articulation to the MSc with specialisation in Earth Sciences and Management, for which an essay on an approved subject is a prerequisite.

Students who have registered for the MSc, but fail to submit an essay within one calendar year after completion of the theoretical portion, qualify for the Postgraduate Diploma in Earth Science Practice and Management.

POSTGRADUATE DIPLOMA IN GEOGRAPHICAL INFORMATION SYSTEMS (GIS) (Code 02220041)

Please note: This Diploma has temporarily been put on hold. No new students will be admitted until further notice.

(a) Admission

An appropriate B degree is normally required, or any other qualification deemed to be equal by the Senate of the University.

(b) Duration

Two years of telematic tuition, but arrangements are being made for a full-time programme of one year.

(c) Aim

Geographic Information Systems (GIS) are an aid which is used by a variety of businesses and disciplines for the processing of data and presentation of information for decision making. The programme in GIS covers the conceptual, technical and organizational aspects of geographic data and data processing, as well as its application possibilities. The programme aims to introduce people from various disciplines to and train them in the use of new technology of geographic data processing.

(d) Presentation

The programme is presented telematically (distance education) and students do not have to attend lectures. Discussion sessions can be arranged.

(e) Curriculum

The curriculum is compiled in consultation with the head of department.

POSTGRADUATE DIPLOMA IN ENVIRONMENT AND SOCIETY (Code 02220042)

(a) Admission requirements

BSc(Hons) in Geography or an equivalent four-year degree, or any other qualification deemed by the Senate in terms of Regulation G.1.3 and G.62 as being equal to the BSc(Hons). Additional preparatory course work may be set by the head of department.

(b) Evaluation

Evaluation of progress will be done throughout the study by means of tasks, projects, tests and examinations.

(c) External evaluation

Oral and written examinations as well as the dissertation will be moderated by external examiners.

(d) Curriculum

The curriculum is compiled in consultation with the head of department.

(e) Articulation possibilities for admission to the Magister Scientiae in Environment and Society

Successful completion of the Diploma can offer admission by articulation to the MSc with specialization in Environment and Society, for which an essay on an approved subject is required.

Student who are registered for the MSc and fail to submit the essay within one calendar year after completing the theoretical portion of the work, qualify for the Postgraduate Diploma in Environment and Society.

ADVANCED DIPLOMA IN EXTENSION AND RURAL DEVELOPMENT (Code 02220044)

The admission requirements are:

- an appropriate initial university diploma in one of the Agricultural disciplines plus one year appropriate extensive experionce; or
- an appropriate BTech degree or National Diploma plus one year relevant extensive experience;
 or
- an appropriate Agricultural Diploma or related diploma plus five years' relevant extensive experience; or
- a qualification deemed appropriate by the Senate of the University plus approved extensive experience (RPL).

POSTGRADUATE DIPLOMA IN CLOTHING AND TEXTILES (Code 02220045)

Details are available from the Department of Consumer Science.

Sc.7.8 CERTIFICATES

A Grade 12 certificate must be included in all applications.

ADVANCED CERTIFICATE IN EDUCATION (Computers and Telecommunication in Mathematics, Science and Technology Education)

ACE (Computers and Telecommunication in Mathematics, Science and Technology Education) (Code 02120086)

(a) Admission requirements

A professional teaching qualification of at least three years full-time study (M+3) in the learning areas of Mathematics, Natural Science or Technology.

(b) Duration

The equivalent of two years of part-time study.

(c) Curriculum

First year of study

SEF 481 Current trends in Mathematics, Science and Technology Education 481 SEF 482 Computers in Mathematics, Science and Technology Education 482

Second year of study

SEF 483 Computers in Mathematics, Science and Technology Education 483

SEF 484 The computer as a laboratory and classroom tool

One of the following:

SEF 485 Networking Software and Hardware 485, or

any other module of at least the same weight approved by the faculties of Natural and Agricultural Sciences or Education for degree purposes or for an Advanced Certificate of Education, subject to approval by the Dean of the Faculty.

(d) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who has failed a maximum of two semester or one year module and has obtained a final mark of at least 40%, may be admitted by the Dean to a special examination in such a module during January of the following year, provided that this will enable him or her to qualify.

(e) Qualification with distinction

The qualification will be awarded with distinction if the student has achieved at least 75% in the module SEF 481 and SEF 483, and at least 65% in the remaining modules.

ADVANCED CERTIFICATE IN EDUCATION (Technology) ACE (Technology) (Code 02120087)

(a) Admission requirements

A professional teaching qualification of at least three years full-time (M+3). A 50% pass in Grade 12 Mathematics and Physical Sciences in the higher grade or applicable proven prior learning. If the mathematics and/or the physical science requirement(s) is/are not met, the module SEF 478 and SEF 479 (as applicable) must be passed before the candidate may register for SEF 471 –3, SEF 481 and SEF 491-6.

This programme will be offered subject to sufficient numbers of applicants only.

(b) Duration: The equivalent of one year of full-time or two years of part-time study.

(c) Curriculum

First year of study

CIL 171,CIL 172 (or equivalent) Computer and Information Literacy*	(6)
SEF 478 Introductory Mathematics for teachers 478*	(12)
SEE 479 Introductory Physical Science for teachers 479*	(12)

^{*} Candidates may be exempted from these modules on the grounds of proven prior learning which may be determined by passing an equivalent module or an assessment procedure prescribed by the Director of the Centre for Science, Mathematics and Technology Education.

SEF 471 Mathematics 471	(16)
SEF 481 Current trends in Mathematics, Science and Technology Education	on 481 (16)
SEF 491 Technology Fundamentals 491	(12)
SEF 492 Technology to Early Senior Phase 492	(12)
SEF 493 Technology for Middle Senior Phase 493	(12)
SEF 494 Technology for Upper Senior Phase 494	(12)
SEF 495 Indigenous Technology 495	(6)
SEF 496 Technology Project 496	(6)

One of

SEF 472 First Course in Chemistry 472 (16) SEF 473 General Physics 473 (16)

SEF 482 Computers in Mathematics, Science and Technology Education 482 (16)

Any other courses at level 5 or 6 approved by the dean of the Faculty of Natural and Agricultural Science or the Faculty of Education for degree purposes or for an Advanced Certificate in Education or Further Diploma in Education to a minimum of 12 credits. At least 120 credits must be earned for the certificate to be awarded. Fundamental modules for which exemption has been obtained are not counted towards the required 120 credits.

Additional certification requirements

In addition, candidates will be required to obtain a workshop safety certificate and a First Aid (Level 1) certificate.

(d) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who has failed a maximum of two semester modules or one year module and has obtained a final mark of least 40%, may be admitted by the Dean to a special examination in such a course during January of the following year on condition that the student then satisfies all the requirements of the certificate.

(e) Certificate with distinction

To pass the Advanced Certificate with distinction, a student must pass SEF 481, SEF 471 and SEF 496 with at least 75% and the remaining subjects with at least 65%.

ADVANCED CERTIFICATE IN EDUCATION (Mathematics and Science) ACE (Mathematics and Science) (Code 02120089)

(a) Admission

A professional teaching qualification of at least three years full-time (M+3) in the learning areas of Mathematics, Natural Science or Technology.

(b) Duration

The equivalent of one year of full-time or two years of part-time study.

(c) Curriculum

First year of study

SEF 481 Current trends in Mathematics, Science and Technology Education 481

SEF 471 Mathematics 471

SEF 472 First course in Chemistry 472

Second year of study

SEF 473 General Physics 473

both (SEF 474 Earth Sciences 474 and SEF 475 Mathematics 475), or

one of (SEF 474 or SEF 475) **plus** another course of the same weight approved by the faculties of Natural and Agricultural Sciences or Education for degree purposes or for an Advanced Certificate in Education, subject to approval by the Dean of the Faculty.

(d) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who has failed in no more than two semester modules or one year module and has achieved a final mark of at least 40%, may be permitted by the Dean to sit for a special examination in January of the following year on condition that the student then satisfies all the requirements of the qualification.

(e) Qualification with distinction

To pass the qualification with distinction, a student must pass both SEF 481 and SEF 471 with at least 75% and the remaining subjects with at least 65%.

ADVANCED CERTIFICATE IN EDUCATION (Mathematics and Computer Literacy) ACE (Mathematics and Computer Literacy) (Code 02120090)

(a) Admission requirements

A professional teaching qualification of at least three years full-time (M+3). A 50% pass in Grade 12 Mathematics in the higher grade or applicable proven prior learning. If the mathematics requirement is not met, the course SEF 478 must be passed before the candidate may register for SEF 471 and SEF 476.

(b) Duration: The equivalent of one year of full-time or two years of part-time study.

(c) Curriculum

First year of study

SEF 481 Current trends in Mathematics, Science and Technology Education 481

SEF 482 Computers in Mathematics, Science and Technology Education 482

SEF 471 Mathematics 471

CIL 171, CIL 172, CIL 173 Computer and Information Literacy*

EOT 151/152/153/154 Language Proficiency*

*Candidates may be exempted from these modules on the grounds of proven prior learning which will be determined by passing an equivalent module or an assessment procedure prescribed by the Director of the Centre for Science, Mathematics and Technology Education.

Second year of study

SEF 476 Statistics for Teachers 476 or

SEF 482 Computers in Mathematics, Science and Technology Education 482

SEF 475 Mathematics 475

plus one of

SEF 477 Statistics for Teachers 477

SEF 483 Computers in Mathematics. Science and Technology Education 483

SEF 484 The computer as a laboratory and classroom tool

or with permission of the Dean of the Faculty another module with the same credit value approved by the faculties of Natural and Agricultural Sciences or Education for degree,

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Further Diploma or Advanced Certificate purposes.

(d) Special examination in the Faculty of Natural and Agricultural Sciences

A final-year student who has failed no more than two semester modules or one year module but achieved a final mark of least 40% may be admitted by the Dean to a special examination in such a module during January of the following year, provided that this will enable him or her to qualify for the advanced certificate.

(e) Certificate with distinction

The Advanced Certificate will be awarded with distinction if the student has achieved at least 75% in the courses SEF 481 and SEF 471 and at least 65% in the remaining courses.