CALENDAR 2013

FACULTY OF COMMERCE AND ADMINISTRATION POSTGRADUATE PROGRAMMES

Mafikeng Campus

1 ADDRESS

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PLEASE MENTION YOUR UNIVERSITY NUMBER IN ALL CORRESPONDENCE.

The General Academic Rules of the University, to which all students have to subject themselves and which apply to all the qualifications offered by the University, appear in a separate publication and are available on the web page at: *http://www.nwu.ac.za*

Please Note: Although the information in this Calendar has been compiled with the utmost care and accuracy, the Council and the Senate of the University accept no responsibility whatsoever for errors that may occur. Before students finally decide on the selection of modules, they must consult the class timetable. If a clash occurs in the planned selection by a student, the relevant module combination is not permitted.

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3   OFFICE BEARERS

Executive Dean	Professor S Swanepoel, B.Com, B.Com (Hons), MCom HRM, DCom HRM *(UP)*, HED *(Unisa)*, Registered Industrial Psychologist (HPCSA)
Research Professor	Professor MA Petersen, BSc, BSc HDE *(UCT)*, BSc Hons, MSc, PhD *(UWC)*
Faculty Administrator	DR Mheta, B.Com *(Unibo)*
Research Officer	D Vorster, BA *(UP)*, BA Hons Soc (NWU)

Directors of Schools and Programme Managers

School of Accounting

Director	Professor AAI Bootha, B.Com *(UNISA)*, MCom Forensics *(NWU)*, CIA, CA *(SA)*
Programme: Chartered Accountancy and Financial Accountancy	FK Kgotle, B.Com *(NWU)*, Hons B.Compt *(UNISA)*, CTA *(UNISA)*, CA (SA)

School of Economic and Decision Sciences

Director	MN Sikwila, BA *(Zambia)*, MA *(Acadia)*, PhD *(Bath)*
Programme: Economics	MJ Khumalo, BA, MSc *(NUL)* MBA *(NWU)*
Programme: Transport Economics & Logistics Management	K Visser, B.Com *(Stellenbosch)*, B.Com Hons *(RAU)*, MCom *(NWU)*
Programme Information Systems	M Velempini, MSc (Comp Sc) *(NUST)*, PhD (Elec Eng) *(UCT)*
Programme: Statistics	ND Moroke, B.Com B.Com Hons *(UNW)*, M Com *(NWU)*

School of Management Sciences

Director	Professor JB van Lill MA *(Stellenbosch)*, DLitt et Phil (UNISA), MBL (Unisa), Registered Psychologist (HPCSA)
Programme: Management	KFR Kadama, BSc Hons *(Makerere University, Uganda)*, MBA, PhD *(NWU)*
Programme: Industrial Psychology	EN Barkhuizen, B.Com, B.Com Hons*,* MCom *(PU for CHE)*, PhD *(NWU)*

Programme: Public Administration	LM Masilo, BPA (*Unibo*), B.Admin Hons (*Unisa*), MPA (*Northern Arizona*)

Graduate School of Business and Government Leadership

Director	TG Pelser, B.Com, B.Com Hons, MCom, PhD (*PU for CHE*)
Postgraduate Division Director	GD Setsetse, B.Admin (*Unin*), B.Admin Hons (*Unisa*) – MHRP
Programme Manager	PT Mpete, B.Admin B.Admin Hons (*UNW*) RTA (*SHL*), MAdmin (*NWU*)

Faculty Board Members

Chairperson	Professor S Swanepoel, B.Com, B.Com (Hons), MCom HRM, DCom HRM (*UP*), HED (*Unisa*), Registered Industrial Psychologist (HPCSA)
Research Professor	MA Petersen, BSc, BSc HDE (*UCT*), BSC Hons, MSc, PhD (*UWC*)

Accounting

Professor	AAI Bootha, B.Com (*UNISA*), MCom Forensics (*NWU*), CIA, CA (*SA*)
Senior Lecturers	N Chitima, B.Compt (*UNISA*), B.Compt Hons (*UNISA*), CIA, CA (SA) KM Meko, B.Com (*Unin*), MBA (*District of Columbia*) J Hanna, B.Admin (*Brock*), CA (*Canada*) J van der Merwe, B.Com, CTA (*UOFS*), CA (SA) TE Triegaardt, B.Com, CTA (*Wits*), CA (SA) FK Kgotle, B.Com (*NWU*), Hons B.Compt (*UNISA*), CTA (*UNISA*), CA (SA)
Lecturers	A Pieterse, B.Com (*PU for CHE*), B.Compt Hons (*Unisa*), MCom (*NWU*), Professional Accountant (SA), Tax Practitioner (SA) T Mashoene, BAcct (*UKZN*), B.Compt Hons (*Unisa*) T Odendaal, B.Com (*UP*), B.Com (Hons) (*UP*), CIA

Economics

Associate Professor	J Mukuddem-Petersen, BSc BSc Hons (*UWC*), MSc, PhD (*PU for CHE*)
Senior Lecturers	FP Lembede, B.Com (*Unizul*), B.Com Hons (*Unisa*), M.A. (*Williams*) SJH Louw, B.Com (*UOFS*), B.Com Hons (*UP*), MA (*Pennsylvania*)

	MN Sikwila, BA *(Zambia)*, MA (Acadia), PhD *(Bath)*
Lecturers	OD Daw, BPA (*Unibo*), MSc DP (*Wits*), PhD *(SWUFE, China)* MJ Khumalo, BA, MSc *(NUL)*, MBA *(NWU)* NE Molatsana, B.Com *(Unisa)*, B.Com Hons, MCom *(UP)* IP Mongale, B.Com, B.Com Hons, MCom *(NWU)* TJ Mosikari, B.Com, B.Com Hons, MCom *(NWU)*

Information Systems

Professor	S Lubbe, B.Com, B.Com (Hons), MCom (IS) *(UCT)*, PgD (IS) *(WITS)*
Senior Lecturer	N Mavetera, BSc (Engineering) Hons *(UZ)*, PM (Geomatics) *(ITC, NL)*, PhD (IT) *(UP)*
Lecturer	M Velempini, MSc (Comp Sc) *(NUST)*, PhD (Elec Eng) *(UCT)*
Junior Lecturers	ME Nhlapo, B.Com, BSc Hons *(UNW)* F Mosetja, BSc, BSc Hons *(UNW)* CG Mavetera, B.Com, B.Com Hons *(UNW)* L Ditibane, B.Com, B.Com Hons *(UNW)*

Statistics

Professor	PAE Serumaga-Zake, BSc *(Makerere)*, MSc *(Rhodes)*, PhD *(PU for CHE)*
Senior Lecturers	MS Sedupane, BSc, BSc Hons *(UCT)*, M Com *(UNW)* NN Maruma, BSc Hons *(Unin)*
Lecturers	LD Metsileng, B.Com B.Com Hons, MCom *(UNW)* ND Moroke, B.Com B.Com Hons *(UNW)*, M Com *(NWU)* PG Seaketso, BSc BSc Hons, MSc *(NWU)*
Junior Lecturer	DL Xaba, B.Com Hons *(NWU)*

Transport Economics and Logistics Management

Associate Professor	JN Cronjé, B.Com *(RAU)*, B.Com HONS *(Unisa)*, MCom *(Unisa)*, DCom *(Unisa)*
Lecturer	HC Kuun, B.Com Hons *(RAU)*, MCom *(Unisa)*
Junior Lecturers	A Mooketsi, B.Com *(NWU,* B.Com Hons *(UJ)* KW Motatsa B.Com *(NWU)* B.Com Hons *(UJ)* K Visser, B.Com *(Stellenbosch)*, B.Com Hons *(RAU)*, MCom *(NWU)*

Industrial Psychology

Professor	JB van Lill MA (*Stellenbosch*), DLitt et Phil (UNISA), MBL (Unisa), Registered Psychologist (HPCSA)
Associate Professor	EN Barkhuizen, B.Com, B.Com Hons*, MCom *(PU for CHE)*, PhD *(NWU)*
Senior Lecturer	KRF Mokgele, BA PM, BA PM Hons (*Fort Hare*), MBA *(UNW)*
Lecturers	TJ Maubane, BPA BPA Hons (*Unibo*), MBA *(NWU),* CHRP *(SABPP),* P&M *(APM(SA)* ND Makgala, B.Admin Hons (*Unibo),* MAdmin*,* PGDM *(NWU)* DL Lesenyeho, B Soc Sc B.Admin Hons, M Admin *(UNW*) AM Molefi, B.Com B.Com Hons, MCom *(UNW)*

Management

Associate Professor	JJ Prinsloo, B.Com B.Com Hons, MCom *(UP)*, PhD *(PU for CHE)*
Senior Lecturers	LJK Godji, BA Hons (*Cape Coast*), MBA (*Ghana*) AS Pelser, B.Com B.Com Hons (*PU vir CHE*), MCom (*UniVen*)
Lecturers	KFR Kadama, BSc Hons *(Makerere University, Uganda)*, MBA, PhD (*NWU*) MA Matlabe, B.Com B.Com Hons, MCom (*NWU*) KL Motlhabane, Entrepreneur Diploma (Wits Business School), Advanced Diploma in Taxation (*University of Pretoria*), B.Com (*Unibo*), MBA (*UNW*) JSM Legodi, B.Com, UED *(Unin)*, B.Com Hons (*Vista*), MBA *(De Mont Fort)* W du Toit, B.Com Hons *(PU for CHE)*, MCom *(Stellenbosch University)* S Kopung, BSc Ed *(Unibo)*, BEd *(NWU)*, BMin *(CFCI)*, MBA *(TVU)*, GDE *(Wits)* S Ngobeni, B.Com *(UL)*, B.Compt Hon *(Unisa)*, MCom *(NWU)*

Public Administration

Senior Lecturers	LM Masilo, BPA (*Unibo*), B.Admin Hons (*Unisa*), MPA *(Northern* Arizona) AI Tabane, B.Admin Hons (*Unisa*), MPA (*UP*)
Lecturers	TE Mabille, BPA BPA Hons (*Unibo*), MPA (*Stellenbosch*), PhD *(NWU)*

LP Bogopane, BPA BPA Hons *(Unibo),* MPA *(Texas),* PhD *(NWU)*

Graduate School

Professor	AG Frank, BA (Copenhagen), MDPA (SA), MBA (Buckinghamshire), MCom, DCom *(Unisa)*
Associate Professors	CO Miruka, BSc *(Nairobi)*, MMan, PhD *(Wits)* TG Pelser, B.Com, B.Com Hons, MCom, PhD *(PU for CHE)*
Postgraduate Division Director	GD Setsetse, B.Admin *(Unin)*, B.Admin Hons *(Unisa)* – MHRP

4 FACULTY RULES

4.1 Authority of the General Rules

The faculty rules valid for the different qualifications, programmes and curricula of this faculty and contained in this faculty calendar, are subject to the General Rules of the University, as determined from time to time by the Council of the University on recommendation of the Senate. The faculty rules should therefore be read in conjunction with the General Rules. In instances where a faculty rule may contain provisions that are in conflict with the General Rules, the latter will prevail.

4.2 Faculty Specific Rules

5 HONOURS DEGREES

The closing date for Honours programmes is 31 October of each year.

5.1 Structure of the qualification

An honours degree consists of a number of modules with a minimum of 120 credits, as prescribed in these rules.

5.2 Admission requirements

The admission requirements for all formal academic qualifications offered by the University are set out in the Admission Policy as approved by Senate and Council (http://www.nwu.ac.za/webfm_send/24749).

5.3 Registration

5.3.1 Annual registration

5.3.1.1 A student who has been admitted to the University registers for a specific qualification programme per annum or per semester for the duration of the study at the time determined in the annual calendar for that purpose, by paying the prescribed registration fee, completing the registration form either on paper or electronically, acquiring the required approval from faculty advisers and other functionaries concerned and submitting the form to the campus registrar concerned, upon which proof of registration is issued to the student.

5.3.1.2 Students who attend lectures, write tests, submit assignments and who write examinations without officially being registered, receive no credits, even if the prescribed fees have been paid.

5.3.1.3 A student registers on the date of registration in accordance with the rules relating to the qualification programme, curriculum and module concerned as provided for in faculty rules.

5.3.1.4 It is the personal responsibility of the student to ensure that all requirements for registration for the qualification programme, curriculum and module are complied with and that no class, test or examination time table clashes between modules for which the student registers, will occur. The University reserves the right to refuse or cancel a registration where this condition is not met.

5.3.2 Registration for additional modules

A student may in any year of study on application be granted permission by the dean in accordance with faculty rules to enrol, besides for the prescribed modules of the curriculum concerned, for modules additional thereto.

5.3.3 Exemption from registration

Where a student must, in order to complete a qualification, write one outstanding examination that does not fall in the same semester as that in which all the requirements of the qualification are complied with, the student is exempted from registration for that semester.

5.3.4 Amendment or cancellation of registration

5.3.4.1 The cancellation of registration for an honours programme may be requested at any time. A student's registration may only be amended or cancelled on application in the prescribed manner.

5.3.4.2 The campus registrar may cancel a student's registration for a particular module where such registration was done contrary to the rules.

5.4 Examination

5.4.1 Examiners and moderators

5.4.1.1 For every module there is at least one internal examiner and one external moderator with the required qualifications.

5.4.1.2 The external moderator may not be a staff member or otherwise connected to the University by way of an extraordinary appointment.

5.4.1.3 The supervisor of an honours mini-dissertation may not be an internal examiner of such a mini-dissertation

5.4.2 Requirements for admission to examination

A student who achieved the required participation mark or proof of participation prescribed by these rules, is admitted to the examination in the module concerned.

5.4.3 Number of examination opportunities

5.4.3.1 A student who fails one or more of the modules of an honours study in an examination may be granted a second examination opportunity in the affected module(s) by the dean after consultation with the school director.

5.4.3.2 A student may, within the maximum period allowed for the study, repeat examination papers once in modules not exceeding 25% of the curriculum concerned.

5.4.3.3 A student who, after making use of all the ordinary examination opportunities, passed all the modules required in an honours programme except one, may apply to the dean for a final assessment opportunity in the outstanding module, for which payment of the required amount, but not registration, is required.

5.4.4 Extension of period of study

5.4.4.1 A student who does not expect to complete the curriculum for a qualification programme within the prescribed number of years may apply to the school director concerned for an extension of the study period.

5.4.4.2 The school director concerned may extend the student's study period in accordance with the provisions of these rules to enable the student to complete the qualification.

5.4.5 Unsatisfactory academic performance

5.4.5.1 Subject to exceptions that may be provided for in these rules, "unsatisfactory academic performance" means that a full-time student achieves in a semester less than half the credits required for the curriculum concerned or passes less than half of the modules registered for in the semester.

5.4.5.2 A student whose academic performance is unsatisfactory receives a formal warning from the dean and is referred for academic advice and study counselling.

5.5 Attainment of the degree

5.5.1 Satisfaction of requirements

The honours degree is attained when a student has passed in the examination of all the modules prescribed for the curriculum concerned.

5.5.2 Qualification with distinction

The honours degree is conferred with distinction where the student completes the degree in the minimum period and obtained a weighted average of 75% in all the core-modules.

6 MASTERS DEGREES

The closing date for Masters programmes is 31 October of each year.

6.1 Structure of the qualification

6.1.1 Curriculum

6.1.1.1 The curriculum for a masters degree is prescribed in faculty rules and may contain one or more of the following elements:

6.1.1.1.1 the writing of a dissertation;

6.1.1.1.2 the writing of a mini-dissertation;

6.1.1.1.3 taught modules;

6.1.1.1.4 the writing of manuscripts in article format;

6.1.1.1.5 performance of a series of concerts;

6.1.1.1.6 the compilation of a composition portfolio;

6.1.1.1.7 presentation of an exhibition, provided that the research product submitted for examination must comply with all the requirements for a masters degree.

6.1.1.2 In cases where taught modules are required, those modules must, subject to different provisions contained in faculty rules, be completed within the first year of study.

6.1.1.3 The curriculum for a particular masters degree or the framework within which such curriculum may be composed, is provided for in faculty rules.

6.1.2 Credits

6.1.2.1 A minimum of 180 credits is required for a masters degree, of which at least 120 credits must be on NQF-level 9.

6.1.2.2 In a curriculum composed of both taught modules and a mini-dissertation, the mini-dissertation must carry a weight of at least 60 credits.

6.1.2.3 In a curriculum composed of both taught modules and a dissertation, the dissertation must carry a weight of at least 90 credits.

6.1.3 Supervision

A student admitted to a masters degree works under the supervision of a supervisor appointed in terms of the provisions of these rules and approved by the faculty board.

6.1.4 Research focus

A masters degree study is undertaken within the framework of the school concerned.

6.2   Admission requirements

The admission requirements for all formal academic qualifications offered by the University are set out in the Admission Policy as approved by Senate and Council (http://www.nwu.ac.za/webfm_send/24749).

6.3   Registration

6.3.1   Research proposal and title registration

6.3.1.1   Unless these rules expressly provide otherwise, the student must within six months after registration (as regards 3.1.2.1) or completion of the last exam (as regards 3.1.2.2 and 3.1.2.3) in consultation with a possible supervisor present a research proposal and title registration to a body determined by faculty rules for approval, which body formalises the appointment of a supervisor and where necessary co- or assistant supervisors in consultation with the directors having an interest therein.

6.3.1.2   If a student fails to present a research proposal as referred to in 3.3.1.1 above in time for approval after due notification, the study may be terminated.

6.3.1.3   If, in any year, a student fails to re-register as student at the time determined in the annual calendar, the faculty board concerned may assign the topic of the dissertation or mini-dissertation, if already registered, to another student in the same research entity.

6.3.2   Annual registration

6.3.2.1   The provisions of 2.3.1 apply adapted as required to masters degree programmes.

6.3.2.2   The dates on which registration for a masters degree should take place both for the first time and for annual re-registration, are determined in the annual calendar.

6.3.2.3   A student who does not register at the time referred to in 3.3.2.2 above may, in the same calendar year, apply to the dean for late registration for which the payment of a penalty may be prescribed by the Registrar.

6.3.2.4   The dean has the discretionary authority to set reasonable conditions for such re-admission and must report such conditions to the Vice-Rector.

6.3.3   Registration for additional modules

A student may in any year of study on application be granted permission by the dean in accordance with the faculty rules to enrol, besides for the prescribed modules of the curriculum concerned, for modules additional thereto.

6.3.4   Exemption from registration

A student who still needs to write a paper or make improvements to an examined dissertation or mini-dissertation and who can attain the qualification at the autumn graduation ceremony, does not register for a new year, provided that the examination is successfully completed by the end of January of the new year or the dissertation or mini-dissertation is satisfactorily improved by the end of January of that new year.

6.3.5   Amendment or cancellation of registration

6.3.5.1   The cancellation of registration for a masters programme may be requested at any time. A student's registration may only be amended or cancelled on application in the prescribed manner.

6.3.5.2   The campus registrar may cancel a student's registration for a particular module where such registration was done contrary to the rules.

6.4 Examination

6.4.1 Nature of examination

For the examination for the purpose of attainment of a masters degree, the following may be required by faculty rules –

6.4.1.1 a dissertation only, or

6.4.1.2 one or more examination papers and a dissertation, or

6.4.1.3 one or more examination papers and a mini-dissertation, or

6.4.1.4 a series of manuscripts in article format, or

6.4.1.5 in the case of the performing arts, a previously approved concert programme or programmes, a composition portfolio and a mini-dissertation, or

6.4.1.6 in the case of the visual arts, a previously approved art exhibition or exhibitions and a mini-dissertation.

6.4.2 Submission of dissertation or mini-dissertation for examination

6.4.2.1 A dissertation or mini-dissertation is submitted for examination with the written consent of the supervisor.

6.4.2.2 A postgraduate student who is dissatisfied with any aspect of the guidance with which the student was provided by a supervisor or promoter, can raise such matters in writing to the dean. The dean must respond in writing to the student before a dissertation or mini-dissertation is submitted for examination.

6.4.2.3 A dissertation or mini-dissertation must be submitted for examination before or on the date annually shown in the time table for the relevant year.

6.4.2.4 The physical form and number of copies of a dissertation or mini-dissertation that must be submitted for examination, and after successful examination be submitted for safekeeping, are determined by the Registrar.

6.4.2.5 Where the supervisor withholds permission for the submission for examination of a dissertation or mini-dissertation, the relevant school director, may after consultation with the supervisor and the student, recommend the granting of leave for submission to the dean.

6.4.2.6 A dissertation or mini-dissertation must comply with the technical requirements provided for in these rules.

6.4.2.7 At submission for examination a dissertation or mini-dissertation must, except for a title, also contain a summary of no more than 500 words and five to ten descriptive key terms in the language in which the document is written.

6.4.2.8 With the submission of any dissertation or mini-dissertation which is not submitted in the form of a series of manuscripts in article format, faculty rules may also require proof that the candidate submitted a research article to an accredited journal.

6.4.2.9 Where a candidate is allowed to submit a dissertation or mini-dissertation in the form of a published research article or articles or as an unpublished manuscript or manuscripts in article format and more than one such article or manuscript is used, the dissertation or mini-dissertation must still be presented as a unit, supplemented with an inclusive problem statement, a focused literature analysis and integration and with a synoptic conclusion, and the guidelines of the journal concerned must also be included.

6.4.2.10 Where any research article or manuscript and/or internationally examined patent is used for the purpose of a dissertation or mini-dissertation in article format to which other authors and/or inventors than the candidate contributed, the candidate must obtain a written statement from

each co-author and/or co-inventor in which it is stated that such co-author and/or co-inventor grants permission that the research article or manuscript and/or patent may be used for the stated purpose and in which it is further indicated what each co-author's and/or co-inventor's share in the relevant research article or manuscript and/or patent was.

6.4.2.11 Where co-authors as referred to in 3.4.2.9 above were involved, the candidate must mention that fact in the preface and must include the statement of each co-author in the dissertation or mini-dissertation immediately following the preface.

6.4.2.12 After the dissertation or mini-dissertation has been dispatched to the examiners, a copy thereof must be made available for inspection for at least 14 calendar days in the campus library, and notice of such availability must be given in a suitable manner.

6.4.2.13 After a dissertation or mini-dissertation has been submitted for examination, the document may not be withdrawn.

6.4.3 Examiners and moderators

6.4.3.1 For the examination of every dissertation or mini-dissertation at least two examiners, of which at least one must be an external examiner, must be appointed by the dean in accordance with the provisions of the faculty rules and in consultation with the school director concerned to conduct the assessment of the student's performance in an examination.

6.4.3.2 The names of the examiners are not made known to the candidate without the permission of the examiners concerned.

6.4.3.3 No examiner of a dissertation or mini-dissertation may in any manner have been involved in the supervision of the student.

6.4.4 Examination

6.4.4.1 The examination of a module in a taught masters degree is moderated externally unless the module is examined externally.

6.4.4.2 The examiners of a dissertation or mini-dissertation are requested to provide an assessment of the question whether the dissertation or mini-dissertation contains proof of the candidate's independent ability to do research in the relevant field of study and to report such research results satisfactorily.

6.4.4.3 The supervisor, co-supervisor or assistant supervisor does not communicate or negotiate with the examiners about the examination after the examination copies of the dissertation or mini-dissertation have been dispatched to the examiners.

6.4.4.4 Each examiner separately submits a written report on the dissertation or mini-dissertation to Academic Administration (post-graduate), which provides the examiners' reports to the school director concerned, for processing and finalization by the faculty board.

6.4.4.5 All examination reports must be considered by the higher degrees committee of the faculty.

6.4.4.6 An examiner may recommend that a dissertation or mini-dissertation –

6.4.4.6.1 be accepted unconditionally; or

6.4.4.6.2 be accepted on condition that specified corrections be made, in which case the supervisor is responsible, in consultation with the school director concerned, to provide the candidate within 14 calendar days after receipt of all the examiners' reports with a memorandum setting out the specified corrections required; or

6.4.4.6.3 be referred back to the candidate for revision and/or elaboration and resubmission for re-examination, in which case the supervisor is responsible, in consultation with the school director concerned, to provide the candidate within 14 calendar days after receipt of all the examiners' reports with a memorandum setting out the nature and extent of the revision or elaboration required; or

6.4.4.6.4   not be accepted, in which case the candidate fails.

6.4.4.7   Where a dissertation or mini-dissertation is referred back to a candidate as referred to in 3.4.4.6.2 and 3.4.4.6.3 above, the resubmission must take place within 1 year after the result was made known to the candidate, unless the dean is convinced that valid reasons for an extension exist.

6.4.4.8   A dissertation or mini-dissertation may only once be referred back to a candidate and after revision be re-submitted for examination.

6.4.4.9   A revised or elaborated dissertation or mini-dissertation may only be submitted for re-examination referred to in 3.4.4.6.3 after the next occasion on which degrees are conferred, and also before or on the submission date determined in the time table of the year concerned.

6.4.4.10   Where a student, in the unanimous judgment of the examiners passes in any examination, such a result is final, subject to 3.4.5.2.

6.4.5   Vagueness or differences regarding examination results

6.4.5.1   The dean may in consultation with the school director concerned, clarify with the examiners anything that is not clear in an examiner's report.

6.4.5.2   Any comments that arise from the inspection referred to in 3.4.2.12 must, within 14 calendar days after the date of the notice of availability for inspection be submitted to the dean. The dean must request the faculty higher degrees committee to evaluate the comments along with the examiner reports, and if such comments on merit appears to be fundamentally different from the reports of the examiners, must appoint an external expert who must specifically evaluate the comments received in relation to the examiner reports, and whose recommendation must be taken into account by the higher degrees committee.

6.4.5.3   An external expert must at least have a doctorate or an equivalent qualification and sufficient experience of research in the relevant field of study, and may not be a member of the faculty.

6.4.5.4   Where, in the case of any taught module, the examiners are not unanimous about a student's passing of the module, the final decision vests in the dean after receiving such advice as the dean considers to be necessary.

6.4.5.5   Where the examiners differ materially about the evaluation of a dissertation or mini-dissertation, the dean appoints an additional external examiner or examiners, or takes other discretionary steps that may be necessary to ensure that a fair and academically justifiable examination result is obtained.

6.4.6   Number of examination opportunities

6.4.6.1   A student who fails one or more of the modules of a Masters study in an examination may be granted a second examination opportunity in the module(s) concerned by the dean after consultation with the school director, except where these rules provide otherwise.

6.4.6.2   A student may, within the maximum period allowed for the study, repeat examination papers once in modules not exceeding 25% of the curriculum concerned.

6.4.6.3   A student who, after making use of all the ordinary examination opportunities, passed all the modules required in a Masters programme except one, may apply to the dean for a final assessment opportunity in the outstanding module, for which payment of the required amount, but not registration, is required.

6.4.7   Dispute resolution

6.4.7.1   A postgraduate student to whom the degree concerned is not awarded after examination may, in case of dissatisfaction with any aspect with the procedures followed in the examination of the thesis, dissertation or mini-dissertation concerned, after exhaustion of all avenues provided for by these rules to dispense with the dissatisfaction, declare a dispute with the University by written

notice to the Institutional Registrar within 14 days after communication of a formal decision to this effect.

6.4.7.2   After having received notice of a dispute, the Institutional Registrar convenes a panel consisting of at least two deans not previously involved in the matter to adjudicate within 14 days on the merits of the dispute.

6.4.7.3   After having considered all the facts, the panel may:

6.4.7.3.1   Confirm that the correct procedures were followed and that the dispute has no merit;

6.4.7.3.2   Refer the matter back to the dean or examination committee concerned for review of particular relevant aspects; or

6.4.7.3.3   Refer the matter for arbitration.

6.4.7.4   If the panel refers the matter for arbitration, the Institutional Registrar must request the dean to submit within three weeks, the name and details of an arbiter upon whom the student and the dean have agreed.

6.4.7.5   The proposed arbiter must at least have a doctorate or an equivalent qualification and sufficient experience of research in the relevant field of study and must be informed, or be prepared to become informed about the arbitration procedures contained in the latest edition of the *Rules for the Conduct of Arbitrations* of the *Association of Arbitrators (Southern Africa)* and to apply these rules in the arbitration process.

6.4.7.6   If the student and dean cannot agree on the designation of an arbiter, the Institutional Registrar must take all reasonable steps to bring about such a designation within a reasonable time.

6.4.7.7   The arbiter settles the dispute in accordance with the arbiter's own judgment following the rules referred to in 3.4.7.5.

6.4.7.8   The arbiter is entitled to make an award *inter alia* for specific performance, issue an interdict, award damages and/or impose a fine, and can make a cost order, including costs regarding legal representation on an attorney-client scale or any other order the arbiter considers to be appropriate in the circumstances.

6.4.7.9   The arbiter's decision is final and binding on both the student and the University.

6.4.8   Publication of dissertations or mini-dissertations

6.4.8.1   The University is the owner of all intellectual property that may be created in the course of the study, which includes, but is not limited to intellectual property referred to in the *Intellectual Property Rights from Publicly Financed Research and Development Act*, 51 of 2008 and the regulations promulgated thereunder.

6.4.8.2   The University is entitled to physically or electronically multiply and distribute or make available any dissertation or mini-dissertation in the final form submitted by the candidate.

6.4.8.3   Where the University publishes or causes a dissertation or mini-dissertation to be published other than in its original form, the candidate is acknowledged as the first author, except where substantial processing of the text was undertaken with the candidate's permission in writing for the purpose of its publication; provided that, six months after acceptance of the dissertation or mini-dissertation, and the candidate, after notification, not having undertaken publication, such publication may be undertaken without the written permission, but with citation of the name, of the candidate.

6.4.8.4   A candidate may not publish or otherwise distribute or have the dissertation or mini-dissertation published or distributed otherwise without the previously obtained written permission of the vice-rector. Such permission, if granted, may be subject to such terms and conditions as the vice-rector may determine.

6.4.8.5 At the publication of a dissertation or mini-dissertation or a part or a summary or an adaptation thereof by the candidate, it must be mentioned that it is the result of a masters degree study at the University and the name or names of the supervisor or supervisors must be cited.

6.4.9 Upgrade of masters degree study to doctoral study

6.4.9.1 A candidate registered for a masters degree study who, in the unanimous opinion of the supervisor, or the school director, has achieved outcomes of a quality and extent acceptable for a doctoral degree, may apply to the faculty board to convert the registration for a masters degree to that for a doctoral degree.

6.4.9.2 A candidate to whom such a concession is made:

    6.4.9.2.1 must, where applicable, successfully complete the paper component of the masters degree examination before the thesis may be submitted;

    6.4.9.2.2 must comply with all the rules and requirements set by the University regarding a doctoral degree; and

    6.4.9.2.3 only receives the doctoral degree after the number of credits for the masters degree papers, where applicable, have been attained and the minimum period required for the registration of the doctoral degree, has expired.

6.4.10 Extension of the study period

6.4.10.1 A candidate who does not expect to complete the study within the maximum time period must, before the end of the final study year apply to the school director concerned for an extension of the study period with one year.

6.4.10.2 The school director concerned makes a recommendation regarding the extension of the study period to the dean for finalisation.

6.4.10.3 An application for extension of the study period must take the form of a submission in which it is indicated -

    6.4.10.3.1 that the research topic is still relevant;

    6.4.10.3.2 what progress has been made;

    6.4.10.3.3 what still needs to be done to complete the study;

    6.4.10.3.4 what the time schedule for completion is, and

    6.4.10.3.5 whether the supervisor is still available.

6.4.10.4 If the study period is extended, it will be granted against payment of a levy determined from time to time.

6.4.11 Termination of study

6.4.11.1 The campus rector, in terms of the faculty rules and on recommendation of the school director concerned, terminate a student's study if the student –

    6.4.11.1.1 fails to comply with all the requirements of Senate or the faculty; or

    6.4.11.1.2 exceeds the maximum duration of the study period as determined by the faculty rules; or

    6.4.11.1.3 after being granted an extended study period referred to in 3.4.10, still fails to complete the study.

6.4.11.2 In the event of an application for re-admission by a student whose study has been terminated, the dean has the discretionary authority to set reasonable conditions for such re-admission and must report such conditions to the vice-rector.

6.4.12 Classification of the theses

Where a dissertation or mini-dissertation is classified in terms of Senate policy, effect is given in the examination process to the rules laid down by Senate for the purpose.

6.5 Attainment of the degree

6.5.1 Meeting the requirements

The masters degree is attained when a student has passed in the examination of all the modules, mini-dissertation and/or dissertation prescribed in the faculty rules for the curriculum concerned.

6.5.2 Distinction

A module, mini-dissertation or dissertation is passed with distinction where, at the examination thereof an average mark of at least 75% is awarded and the degree is passed with a distinction where a weighted average of at least 75% is achieved in all the elements examined.

7 DOCTORAL DEGREES

7.1 Structure of the qualification

7.1.1 The structure of a doctoral degree is prescribed by the faculty rules and may be acquired through the –

7.1.1.1 writing of a thesis; or

7.1.1.2 writing of a series of original articles; or

7.1.1.3 compilation of a composition portfolio, or

7.1.1.4 presentation of an art exhibition,

7.1.2 provided that the research product submitted for examination makes a distinct contribution to the knowledge of and insight into a subject field and produces proof of originality, either by the revelation of new facts or by the exercising of an independent critical capacity.

7.1.3 The curriculum for a particular doctoral degree or the framework within which such curriculum may be compiled, is prescribed in these rules.

7.2 Admission requirements

The admission requirements for all formal academic qualifications offered by the University are set out in the Admission Policy as approved by Senate and Council (http://www.nwu.ac.za/webfm_send/24749).

7.3 Registration

7.3.1 Research proposal and title registration

7.3.1.1 Unless these rules expressly provide otherwise, the student must within six months after registration and in consultation with a possible promoter present a research proposal and title registration to the faculty higher degrees committee for approval, which body formalises the appointment of a promoter and where necessary co- or assistant promoters in consultation with the directors having an interest therein.

7.3.1.2 If a student fails to submit a research proposal as referred to in 4.3.1.1 above in time for approval, the study may be terminated.

7.3.2 Annual registration

7.3.2.1 A student who has been admitted to the University registers for a specific qualification programme per annum or per semester for the duration of the study at the time determined in the annual calendar for that purpose, by paying the prescribed registration fee, completing the registration form either on paper or electronically, acquiring the required approval and submitting the form to the campus registrar, upon which proof of registration is issued to the student.

7.3.2.2 It is the personal responsibility of the student to ensure that all requirements for registration for the qualification are complied with. The University reserves the right to refuse or cancel a registration where this condition is not met.

7.3.2.3 The dates on which registration for a doctoral degree should take place both for the first time and for annual re-registration, are set down annually in the institutional calendar in advance.

7.3.2.4 A student who does not register at the time referred to in 4.3.2.2 above may, in the same calendar year, apply to the dean concerned for late registration for which the payment of a penalty may be prescribed by the Registrar.

7.3.2.5 A student who does not register in a particular year, but who wishes to continue the study in the subsequent year, must apply for readmission to the dean.

7.3.3 Exemption from registration

A student who must make improvements to an examined thesis and who can attain the qualification at the autumn graduation ceremony, does not register for a new year, provided that the thesis is improved satisfactorily in time.

7.3.4 Amendment or cancellation of registration

Registration for a doctoral degree may be amended at no cost within the time period determined annually for such amendments by the Registrar and cancellation of such registration may be requested at any time.

7.4 Examination

7.4.1 Nature of examination

For the examination regarding the attainment of a doctoral degree the following may, subject to the proviso in 4.1.1 be required by the faculty rules –

7.4.1.1 a thesis, or

7.4.1.2 a series of manuscripts in article format, or

7.4.1.3 A colloquium that may be required for the defence of the thesis.

7.4.2 Submission of thesis for examination

7.4.2.1 A thesis must be submitted for examination before or on the date determined annually in the time table for the relevant year.

7.4.2.2 The format and number of copies of a thesis that must be submitted for examination, and after successful examination be submitted for safekeeping, are outlined in the manual for post-graduate supervision.

7.4.2.3 A thesis is submitted for examination with the written consent of the promoter.

7.4.2.4 Where the promoter withholds permission for the submission for examination of a thesis, the relevant school director may after consultation with the promoter and the candidate recommend the granting of leave for submission to the dean.

7.4.2.5 A thesis must comply with the technical requirements provided for in these rules.

7.4.2.6 With the submission of any thesis the candidate, with the concurrence of the promoter, must submit proof that a research article was submitted to an accredited journal.

7.4.2.7 Where a candidate is permitted to submit a thesis in the form of a published research article or articles or as an unpublished manuscript or manuscripts in article format and more than one such article or manuscript is used, the thesis must still be presented as a unit, supplemented with an inclusive problem statement, a focused literature analysis and integration and with a synoptic conclusion, and the guidelines of the journal concerned must also be included.

7.4.2.8 Where any research article or manuscript is used for the purpose of a thesis in article format to which other authors other than the candidate contributed, the candidate must obtain a written statement from each co-author in which it is stated that such co-author grants permission that the research article or manuscript may be used for the stated purpose and in which it is further indicated what each co-author's share in the relevant research article or manuscript was.

7.4.2.9 Where co-authors as referred to in 4.4.2.8 above were involved, the candidate must mention that fact in the preface and must include the statement of each co-author in the thesis immediately following the preface.

7.4.2.10 After the thesis has been dispatched to the examiners, a copy thereof must be made available for inspection for at least 14 calendar days in the campus library, and notice of such availability must be given in a suitable manner. The dean must request the higher degrees committee to evaluate the comments along with the examiner reports, and if such comments on merit appears to be fundamentally different from the reports of the examiners, must appoint an external expert who must specifically evaluate the comments received in relation to the examiner reports, and whose recommendation must be taken into account by the higher degrees committee.

7.4.2.11 After a thesis has been submitted for examination, the document may not be withdrawn.

7.4.3 Examiners

7.4.3.1 For the examination of every thesis at least three examiners must be appointed by the dean in accordance with the provisions of the faculty rules and in consultation with the school director concerned, of which the majority must be external examiners attached to different institutions.

7.4.3.2 The names of the examiners are not made known to the candidate without the permission of the examiners concerned.

7.4.3.3 No examiner of a thesis may in any manner have been involved in the supervision of the student.

7.4.4 Examination

7.4.4.1 The examiners of a thesis are requested to provide an assessment of the question whether the thesis contains proof that the candidate has made a distinct scholarly contribution to the knowledge and insight in the field and of originality, either by way of the pronouncement and dissemination of new facts or by means of the exercise of independent critical skills.

7.4.4.2 The promoter, co-promoter or assistant promoter does not communicate or negotiate with the examiners about the examination after the examination copies of the thesis have been dispatched to the examiners.

7.4.4.3 Each examiner separately submits a written report on the thesis to Academic Administration (post-graduate), which provides the examiners' reports to the school director concerned, for processing and finalization by the faculty board.

7.4.4.4 All examination reports must be considered by the faculty higher degrees committee.

7.4.4.5 An examiner may recommend that a thesis –

7.4.4.5.1 be accepted unconditionally; or

7.4.4.5.2   be accepted on condition that specified corrections be made, in which case the promoter is responsible to, in consultation with the school director concerned, provide the candidate within 14 calendar days after receipt of all the examiners' reports with a memorandum setting out the specified corrections required; or

7.4.4.5.3   be referred back to the candidate for revision and/or elaboration and resubmission for re-examination, in which case the promoter is responsible to, in consultation with the school director concerned, provide the candidate within 14 calendar days after receipt of all the examiners' reports with a memorandum setting out the nature and extent of the revision or elaboration required; or

7.4.4.5.4   not be accepted, in which case the candidate fails.

7.4.4.6   Where a thesis is referred back to a candidate as referred to in 4.4.4.5.3 above, the resubmission must take place within 1 year after the result was made known to the candidate, unless the dean concerned is convinced that valid reasons for an extension exist.

7.4.4.7   A thesis may only once be referred back to a candidate and after revision be re-submitted for examination.

7.4.4.8   A revised or elaborated thesis may only be submitted for re-examination referred to in 4.4.4.5.3 after the next occasion on which degrees are conferred, and also before or on the submission date determined in the time table of the year concerned.

7.4.4.9   Where it is the unanimous judgment of the examiners that a candidate should pass, such a result is final, subject to 4.4.5.2.

7.4.5   Vagueness or differences regarding examination results

7.4.5.1   The dean may in consultation with the school director concerned, clarify with the examiners anything that is not clear in an examiner's report.

7.4.5.2   Any comments that arise from the inspection referred to in 4.4.2.10 must, within 14 calendar days after the date of the notice of availability for inspection be submitted to the dean. The dean must request the faculty higher degrees committee to evaluate the comments along with the examiner reports, and if such comments on merit appears to be fundamentally different from the reports of the examiners, must appoint an external expert who must specifically evaluate the comments received in relation to the examiner reports, and whose recommendation must be taken into account by the relevant faculty structure.

7.4.5.3   Where the examiners differ materially about the evaluation of a thesis the dean appoints an additional external examiner or examiners, or takes other discretionary steps that may be necessary to ensure that a fair and academically justifiable examination result is obtained.

7.4.6   Number of examination opportunities

A student who fails a thesis may apply at most once to be re-admitted to the same qualification programme at the University.

7.4.7 Dispute resolution

7.4.7.1 A postgraduate student to whom the degree concerned is not awarded after examination may, in case of dissatisfaction with any aspect with the procedures followed in the examination of the thesis, dissertation or mini-dissertation concerned, after exhaustion of all avenues provided for by these rules to dispense with the dissatisfaction, declare a dispute with the University by written notice to the Institutional Registrar within 14 days after communication of a formal decision to this effect.

7.4.7.2 After having received notice of a dispute, the Institutional Registrar convenes a panel consisting of at least two deans not previously involved in the matter to adjudicate within 14 days on the merits of the dispute.

7.4.7.3 After having considered all the facts, the panel may:

7.4.7.3.1 Confirm that the correct procedures were followed and that the dispute has no merit;

7.4.7.3.2 Refer the matter back to the dean or examination committee concerned for review of particular relevant aspects; or

7.4.7.3.3 Refer the matter for arbitration.

7.4.7.4 If the panel refers the matter for arbitration, the Institutional Registrar must request the dean to submit within three weeks, the name and details of an arbiter upon whom the student and the dean have agreed.

7.4.7.5 The proposed arbiter must at least have a doctorate or an equivalent qualification and sufficient experience of research in the relevant field of study and must be informed, or be prepared to become informed about the arbitration procedures contained in the latest edition of the *Rules for the Conduct of Arbitrations* of the *Association of Arbitrators (Southern Africa)* and to apply these rules in the arbitration process.

7.4.7.6 If the student and dean cannot agree on the designation of an arbiter, the Institutional Registrar must take all reasonable steps to bring about such a designation within a reasonable time.

7.4.7.7 The arbiter settles the dispute in accordance with the arbiter's own judgment following the rules referred to in 3.4.7.5.

7.4.7.8 The arbiter is entitled to make an award *inter alia* for specific performance, issue an interdict, award damages and/or impose a fine, and can make a cost order, including costs regarding legal representation on an attorney-client scale or any other order the arbiter considers to be appropriate in the circumstances.

7.4.7.9 The arbiter's decision is final and binding on both the student and the University.

7.4.8 Publication of thesis

7.4.8.1 The University is the owner of all intellectual property that may be created in the course of the study, which includes, but is not limited to intellectual property referred to in the *Intellectual Property Rights from Publicly Financed Research and Development Act*, 51 of 2008 and the regulations promulgated there under.

7.4.8.2 The University is entitled to physically or electronically multiply and distribute or make available any thesis in the final form submitted by the candidate.

7.4.8.3 Where the University publishes or causes a thesis to be published other than in its original form, the candidate is acknowledged as the first author, except where substantial processing of the text was undertaken with the candidate's permission in writing for the purpose of its publication; provided that, six months after acceptance of the thesis, such publication may be undertaken without the permission, but with citation of the name of the candidate.

7.4.8.4 A candidate may not publish or otherwise distribute or have the thesis published or distributed otherwise without the previously obtained written permission of the vice-rector.

7.4.8.5 At the publication of a thesis or a part or a summary or an adaptation thereof by the candidate, it must be mentioned that it is the result of a doctoral degree study at the University and the name or names of the promoter or promoters must be cited.

7.4.9 Additional examination requirements

7.4.9.1 The faculty may set additional requirements for the attainment of a doctoral degree, in which case the dean may, on recommendation of the school director, appoint examiners for such purpose.

7.4.10 Extension of the study period

7.4.10.1 A candidate who does not expect to complete the study within the maximum time period must, before the end of the final study year apply to the school director concerned for an extension of the study period with one year.

7.4.10.2 The school director concerned makes a recommendation regarding the extension of the study period to the dean for finalisation.

7.4.10.3 An application for extension of the study period must take the form of a submission in which it is indicated -

7.4.10.3.1 that the research topic is still relevant;

7.4.10.3.2 what progress has been made;

7.4.10.3.3 what still needs to be done to complete the study;

7.4.10.3.4 what the time schedule for completion is, and

7.4.10.3.5 whether the promoter is still available.

7.4.10.4 If the study period is extended, it will be granted against payment of a levy determined from time to time by the Registrar.

7.4.11 Termination of study

The campus rector may, in terms of the faculty rules and on recommendation of the school director concerned, terminate a student's study if the candidate –

7.4.11.1.1 fails to comply with all the requirements of Senate or the faculty; or

7.4.11.1.2 exceeds the maximum duration of the study period as determined by the faculty rules; or

7.4.11.1.3 after being granted an extended study period referred to in 4.4.10 still fails to complete the study.

7.4.11.2 A student whose study has been terminated may apply to the Campus Rector by means of the usual application form for readmission to the University, in which case the readmission is subject to the conditions laid down by the dean.

7.4.12 Classification of the theses

Where a thesis is classified confidential in terms of Senate policy, effect is given in the examination process to the rules laid down by Senate for the purpose.

7.4.13 Attainment of the degree

The doctoral degree is attained when a student complies with all the requirements prescribed therefor in faculty rules.

7.4.14 Proposals

PhD and full dissertations Masters must obtain approval of proposals within six (6) months of registration.

7.4.15 PhD Colloquiums

PhD students must present their research as follows:
- Proposal colloquium
- Mid-term colloquium
- Final results colloquium.

7.4.16 Pass Requirements

PhD: One (1) article to be submitted to an accredited journal.*
Masters (full dissertation): One (1) article to be submitted to an accredited journal.*
Proof must be submitted that accredited journal has received article.

All dissertations and mini-dissertations must be scrutinized by a plagiarism programme, e.g. Turn-it-in. Report must be submitted.

7.5 Warning against Plagiarism

Assignments are individual tasks and not group activities (unless explicitly indicated as group activities). For further details see www.nwu.ac.za/governance

7.6 Capacity Stipulation

Owing to specific capacity constraints, the University reserves the right to select candidates for admission to certain fields of study. This means that prospective students who comply with the minimum requirements may not necessarily be admitted to the relevant courses.

7.7 Schools in the Faculty

The Faculty of Commerce and Administration consists of four schools. A director manages each school. In each school, there are different programmes, each with a programme leader/co-ordinator.

School	Programme
Accounting	Chartered Accountancy Financial Accountancy Accounting and Informatics
Management Sciences	Industrial Psychology Management Public Administration Marketing Management Human Resource Management Local Government/Development Management
Economic and Decision Sciences	Economics Transport Economics and Logistics Management Information Systems Statistics
Graduate School of Business and Government Leadership	Postgraduate Diploma in Management Master of Business Administration

7.8 Qualifications, Programmes and Curricula

The North-West University is authorised to award the following postgraduate degrees in the Faculty of Commerce and Administration:*

Qualification		Programmes	Curriculum and Code
SCHOOL OF ECONOMIC AND DECISION SCIENCES			
Bachelor of Commerce	B.Com Hons	Economics	504110 – E601M/E602M
Bachelor of Commerce	B.Com Hons	Information Systems	504114 – E601M
Bachelor of Commerce	B.Com Hons	Operations Research	504116 – E608M
Bachelor of Commerce	B.Com Hons	Statistics	504117 – E609M
Master of Commerce	M.Com	Economics	505120 – E803M
Master of Commerce	M.Com	Information Systems	505138 – E870M
Master of Commerce	M.Com	Operations Research	505118 – E812M/E813M
Master of Commerce	M.Com	Statistics	505117 – E810M/E811M
SCHOOL OF MANAGEMENT SCIENCES			
Bachelor of Commerce	B.Com Hons	Human Resource Management	504111 – E603M
Bachelor of Commerce	B.Com Hons	Industrial Psychology	504112 – E604M
Bachelor of Commerce	B.Com Hons	Industrial Relations	504113 – E605M
Bachelor of Commerce	B.Com Hons	Management	504115 – E607M
Bachelor of Administration	B.Admin Hons	Human Resource Management	548104 – E611M
Bachelor of Administration	B.Admin Hons	Industrial Psychology	548105 – E612M
Bachelor of Administration	B.Admin Hons	Industrial Relations	548106 – E613M
Bachelor of Administration	B.Admin Hons	Public Administration	548107 – E610M
Master of Commerce	M.Com	Human Resource Management	505113 – E803M/E804M
Master of Commerce	M.Com	Industrial Psychology	505114 – E805M/E806M
Master of Commerce	M.Com	Industrial Relations	505115 – E807M/E808M
Master of Commerce	M.Com	Management	505116 – E809M
Master of Commerce	M.Com	Entrepreneurship	505124 – E814M
Master of Commerce	M.Com	Business Management	505134 – E816M
Master of Commerce	M.Com	Marketing Management	505125 – E815M
Master of Administration	M.Admin	Human Resource Management	550100 – E814M/E815M
Master of Administration	M.Admin	Industrial Psychology	550101 – E816M/E817M
Master of Administration	M.Admin	Industrial Relations	550102 – E818M/E819M
Master of Administration	M.Admin	Public Administration	550103 – E820M/E821M
Master of Public Administration	MPA	Public Administration	557100 – E831M
Master of Philosophy	M.Phil	Public Administration	187105 – E860M
GRADUATE SCHOOL OF BUSINESS AND GOVERNMENT LEADERSHIP			
Postgraduate Diploma in Management	PGDM	Financial Management	549102 – E530M
Postgraduate Diploma in Management	PGDM	Human Resource Management	549101 – E531M
Postgraduate Diploma in Management	PGDM	Marketing Management	549100 – E533M
Postgraduate Diploma in Management	PGDM	Training and Development Mngt	549103 – E532M
Postgraduate Diploma in Management	PGDM	Local Governance Management	549104 – E524M
Postgraduate Diploma in Management	PGDM	Operations Management	549105 – E525M
Postgraduate Diploma in Management	PGDM	Public Financial Management	549107 – E526M
Postgraduate Diploma in Management	PGDM	Labour Relations Management	549106 – E527M
Postgraduate Diploma in Management	PGDM	Small Business Management	549108 – E528M
Postgraduate Diploma in Management	PGDM	Information Systems Management	549109 – E529M
Postgraduate Diploma in Management	PGDM	Purchasing Management	549110 – E534M
Postgraduate Diploma in Management	PGDM	Public and Non-Profit Management	549111 – E530M
Master in Business Administration	MBA	Finance	551100 E831M
Master in Business Administration	MBA	Human Resource Management	551100 E832M
Master in Business Administration	MBA	Public Sector Management	551100 E833M
Master in Business Administration	MBA	Business and Governmental Relations	551100 E834M

Master in Business Administration	MBA	Entrepreneurial Management	551100 E836M
Master in Business Administration	MBA	Operations and Decision Management	551100 E835M
Master in Business Administration	MBA	Marketing Management	551100 E837M
ALL SCHOOLS			
Doctor of Philosophy	Ph.D	Economics	506112 – E902M
Doctor of Philosophy	Ph.D	Industrial Psychology	506113 – E903M
Doctor of Philosophy	Ph.D	Information Systems	506114 – E904M
Doctor of Philosophy	Ph.D	Statistics	506115 – E905M
Doctor of Philosophy	Ph.D	Operations Research	506116 – E906M
Doctor of Philosophy	Ph.D	Public Admin	553100 – E901M
Doctor of Philosophy	Ph.D	Entrepreneurship	506124 – E915M
Doctor of Philosophy	Ph.D	Marketing Management	506125 – E914M
Doctor of Philosophy	Ph.D	Business Management	506108 – E901M/E916M

* *It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.*

The closing date for Honours, Masters and PhD programmes (excluding the MBA) is 31 October of each year.

7.9   Modules and Credits

Subjects are presented in modules, of which everyone us awarded a specific credit value. Each module must be passed individually (general academic rule).

Each module has a code and a descriptive name, for example HRNM 611. The meaning of the digital codes of these names is explained in general academic rule.

In the description of each qualification and programme a number of possible curricula, from which the student must select one, are set out. An explanation is also given in what way the modules of each curriculum have to be divided into the different semesters of each study year. The curricular are compiled for minimum period of one or two or three years, as applicable to the relevant qualification. A student may apply to distribute the modules of a curriculum over a longer period. Exceeding the maximum study period of a curriculum as a result of the student not progressing satisfactorily will only be granted in exceptional cases by the Dean.

7.10   Relationship between Credits and Examinations Papers

The duration for an examination paper of a 8-credits module is usually two hours and the duration of examination papers that count for 12, 16, 24, or 32 credit points is usually three hours

8 PROGRAMMES IN THE SCHOOL OF ECONOMIC AND DECISION SCIENCES

8.1 Bachelor of Commerce (B Com Hons)

Purpose of Qualification
a) To provide qualifiers with comprehensive knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in the field of business, commerce and management studies; that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
a) To provide South Africa with commerce post-graduates who are capable of contributing to economic growth and job creation as entrepreneurs and professionals.
b) To provide South Africa with a significant number of commerce post-graduates in order to ensure that the local leadership base in innovative knowledge, economic and scholarly activity is widened.

Entrance Requirements
To be admitted to the qualification a student should have:
Formal Qualifications:
a) B.Com. Degree and have passed, with 60%, the final course in the subject in which he/she wishes to proceed; or
b) Be in possession of another degree and have passed at least five B.Com courses which include subjects such as Economics, Management, Accounting, and Quantitative Methods and have passed the final course, with at least 60%, in the subject in which he/she wishes to study; or
c) Post-graduate Diploma in Management or equivalent, with an average of 60%
   OR
a) Recognition of prior learning for access to this qualification
b) In cases where prior learning at other institutions, or relevant experience, is deemed by the Dean to compensate for the lack of formal qualifications required above, a candidate may be admitted to the Faculty. (Also see General Rule).

Duration of Qualification
Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
120 Credits

PROGRAMMES LEADING TO THE QUALIFICATION

8.1.1 B.Com Hons Applied Economics (504110)

Purpose of the Programme
1. The post-graduate programmes in Economics are designed to provide students with a sound basis in modern theory, a broad background in applied fields, specialisation within fields of interest, the needed analytical and empirical tools, and a balanced perspective on the current state and uses of their disciplines.
2. The curriculum is designed to prepare students for professional careers as economists in academic institutions, government agencies and in business.

Admission Requirements
1. Admission to the B Com Hons (Applied Economics) programme is limited to approved students with courses in Economics at the 300 level, or a related field at the 300 level or their equivalent, with an average of 60%. (See also general rules for admission).
2. Students admitted to the honours programme are expected to have a good grounding in Mathematics and Statistics. This requirement can be met by successfully completing STFM111 and STFM121.

Entrance Requirements

To be admitted to the qualification a student should have a B Com with majors in Economics/ Econometrics or Applied Economics, with an average of at least 60%. (Also see General Rules).

Prescribed Curriculum (E601M)

The research proposal must be submitted at the beginning of the second semester of the first year of the post-graduate Programme for which the student has registered.

		Semester 1			Semester 2	
Year	Code	Course Title	Cr.	Code	Course Title	Cr.
1	ECAM611	Applied Microeconomics	15	ECAM621	Monetary and Fiscal Policy	15
	ECAM612	Applied Macroeconomics	15	ECAM622	Advanced Planning Techniques	15
	ECAM613	Planning Techniques	15	ECAM623	Cost Benefit Analysis	15
	ECAM671	Research Project	30	ECAM671	Research Project	30
		Total Credits	**75**		**Total Credits**	**45**

8.1.2   B.Com Hons Economics (504110)

Purpose of the Programme
1. The post-graduate programmes in Economics are designed to provide students with a sound basis in modern theory, a broad background in applied fields, specialisation within fields of interest, the needed analytical and empirical tools, and a balanced perspective on the current state and uses of their disciplines.
2. The curriculum is designed to prepare students for professional careers as economists in academic institutions, government agencies and in business.

Admission Requirements
1. Admission to the B Com Hons (Economics) programme is limited to approved students with at least four Economics courses, of which three must be core at the 300 level, or a related field at the 300 level or their equivalent, with an average of 60%. (See also general rules for admission).
2. Students admitted to the honours programme are expected to have a good grounding in Mathematics and Statistics. This requirement can be met by successfully completing STFM111 and STFM121.

Entrance Requirements

To be admitted to the qualification a student should have a B Com with majors in Economics/ Econometrics or Applied Economics, with an average of at least 60%. (Also see General Rules).

Prescribed Curriculum (E602M)

The research proposal must be submitted at the beginning of the second semester of the first year of the post-graduate Programme for which the student has registered.

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	ECNM611	Microeconomic Theory	15	ECNM621	Econometrics	15
	ECNM612	Macroeconomic Theory	15	ECNM622	Public Policy Analysis	15
	ECNM613	Models in Economics	15		Select one:	
				ECNM623	Power System Economics	15
	ECNM671	Research Project	30	ECNM624	General Equilibrium Theory and Welfare Economics	15
		Total Credits	75		Total Credits	45

8.1.3   B.Com Hons Information Systems (504114)

Purpose of the Programme

1. The aim of the Honours programme is to further the work done in the undergraduate programme of producing graduates for the Computer Industry.
2. To provide such graduates with a deep enough theoretical insight into the subject to enable them to pursue advanced postgraduate work or merely to adapt in a field in which rapid change is the norm.

Admission Requirements

Admission to programme is limited to students with a Bachelor's degree with a major in some aspect of Computer Studies, with an average of at least 60% in third year.   An additional requirement is that a student must have studied at least two high level languages.

Prescribed Curriculum (E601M)

Formal lectures, Case Studies and practical work will form the bulk of the programme. Other activities will include:

a)   Independent study
b)   Project work
c)   Seminars

The project work may be theoretical or practical.

Semester 1 - Compulsory Courses			
Code	Course Title	Weeks	Credits
INYM614	Databases, Advanced Topics	16	16
INYM615	Software Engineering	16	16
	Choose one module from the list below		
INYM616	Programming Languages	16	16
INYM618	Intelligent Systems	16	16
	Semester 1: Total Credits		48
Semester 2 - Compulsory Courses			
Code	Course Title	Weeks	Cr.
INYM623	Management of Information Technology	16	16
INYM625	IT Security	16	16
	Choose one module from the list below		
INYM626	Human Computer Interaction	16	16
INYM629	Operating Systems	16	16
INYM630	Computer Communications and Networks	16	16

	Semester 2: Total Credits		48
Full Year Module			
INYM671	Research Project	32	32
	Total Credits		**128**

8.1.4 B.Com Hons Operations Research (504116)

Purpose of the Programme
a) To provide the students with a sound theoretical knowledge in Operations Research
b) To prepare students for professional careers in the field of Operations Research.
c) To prepare students for masters studies in Operations Research
d) To prepare students for employment in academic institutions, industry and government agencies.

Entrance Requirements
To be admitted to the qualification a student should have a B.Com with specialization in Operations Research degree or its equivalent, with an average of at least 60% in third year. (Also see General Rules)

Prescribed Programme (E608M)

A. Select the two compulsory courses for 30 credits.

Course Code	Course Title	Credits
STFM611	Stochastic Models	15
STOM611	Optimization-1	15

B. Select the compulsory research project for 30 credits

STOM671	Research Project	30

C. Select at least two courses (the remaining courses may be Statistics courses below) for a minimum of 60 credits

STOM612	Network Analysis	15
STOM613	Reliability Theory	15
STOM614	Forecasting Methods	15
STOM621	Theory of Games	15
STOM622	Production Planning and Scheduling	15
STOM623	Optimization-2	15
STOM624	Inventory Control	15
	Total Credits	**120**

8.1.5 B.Com Hons Statistics (504117)

Purpose of the Programme
a) To provide the students with a sound graduate theoretical knowledge in statistics

b) To prepare students for professional careers in the field of statistics.
c) To prepare students for masters studies in Statistics
d) To prepare students for employment in academic institutions, industry and government urgencies.

Entrance Requirements
To be admitted to the qualification a student should have a B.Com. with specialization in Statistics degree or its equivalent, with an average of at least 60% in third year. (Also see General Rules)

Prescribed Programme (E609M)
A. Select the two compulsory courses for 30 credits.

Course Code	Course Title	Credits
STFM613	Multivariate Analysis	15
STFM616	Applied Regression Analysis	15

B. Select the compulsory research project for 30 credits

STFM671	Research Project	30

C. Select at least two courses (the remaining courses may be Operations Research courses above) for a minimum of 60 credits.

STFM611	Stochastic Models	15
STFM612	Advanced Probability Theory	15
STFM615	Decision Theory	15
STFM621	Design of Experiments and Sampling	15
STFM614	Statistical Quality Control	15
	Total Credits	**120**

8.2   Master of Commerce (M Com)

Purpose of Qualification
a) To provide qualifiers with an advanced knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in their chosen field, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge in commerce, business and management;
c) To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Admission Requirements
To be admitted to the qualification a student should have:
a) Approved Honours or equivalent with a 60% average
b) Approval of the School Director and the Dean. (Also see General Rules)

Duration of Qualification

Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
180 Credits

PROGRAMMES LEADING TO THE QUALIFICATION:

8.2.1   M.Com Economics (505120)

The following courses will have to be completed (E803M):

Year 1	Code	Course Title	Cr
	ECON 872	Advanced Microeconomics	148
	ECON 874	Advanced Econometrics and Model Building	16
	ECON 876	Advanced Macroeconomics	16
		Total Credits	**180**

8.2.2   M.Com Operations Research (505118)

Purpose of the Programme
a) To provide the students with a sound advanced theoretical knowledge in Operations Research
b) To prepare students for professional careers in the field of Operations Research.
c) To prepare students for advanced postgraduate studies in Operations Research.
d) To prepare students for employment in academic institutions, industry and government urgencies.

Entrance Requirements
To be admitted to the qualification a student should have a B Com Hons with specialization in Operations Research degree or its equivalent, with an average of at least 60%. (Also see General Rules).

Prescribed Curriculum
This programme can be through course work or by full dissertation:

Full Dissertation Option (E812M)
This option requires registration in STOM871: Full Dissertation in Operations Research.

Course Work Option (E813M)
The following courses must be completed:

A. Select the two compulsory courses for 30 credits.

Course Code	Course Title	Credits
STFM811	Stochastic Models	15
STOM811	Optimization-1	15

B. Select the compulsory research project for 30 credits

| STOM873 | Mini-dissertation | 30 |

C. Select at least two courses (the remaining courses may be Statistics courses below) for a minimum of 60 credits

STOM812	Network Analysis	15
STOM813	Reliability Theory	15
STOM814	Forecasting Methods	15
STOM821	Theory of Games	15
STOM822	Production Planning and Scheduling	15
STOM823	Optimization-2	15
STOM824	Inventory Control	15
	Total Credits	**120**

8.2.3   M.Com Statistics (505117)

Purpose of the Programme
a) To provide the students with a sound advanced theoretical knowledge in statistics
b) To prepare students for professional careers in the field of statistics.
c) To prepare students for advanced postgraduate studies in Statistics
d) To prepare students for employment in academic institutions, industry and government urgencies.

Entrance Requirements
To be admitted to the qualification a student should have a B Com Hons with specialization in Statistics degree or its equivalent, with an average of at least 60%. (Also see General Rules).

Prescribed Programme
This programme can be through course work or by full dissertation:

Full Dissertation Option (E810M)
This option requires registration in STFM871: Full Dissertation in Statistics.

Course Work Option (E811M)
The following courses must be completed:

A. Select the two compulsory courses for 30 credits.

Course Code	Course Title	Credits
STFM813	Multivariate Analysis	15
STFM823	Applied Regression Analysis	15

B. Select the compulsory research project for 30 credits

| STFM873 | Mini-dissertation | 30 |

C. Select at least two courses (the remaining courses may be Operations Research courses above) for a minimum of 60 credits

| STFM811 | Stochastic Models | 15 |

STFM812	Advanced Probability Theory	15
STFM821	Decision Theory	15
STFM822	Design of Experiments and Sampling	15
STFM814	Statistical Quality Control	15
	Total Credits	**120**

8.2.4   M.Com Computer Sciences and Information Systems (505138) (E870M)

Prospective students must, before the date set by the relevant research director in consultation with the relevant school director involved, apply to the relevant research director for selection and formal admission to the intended programme in the following year (see general rules). Only students who, on the basis of their academic record and other proven prior learning, are judged to have a realistic chance of success would be admitted to a programme. The background and potential of students are also taken into account in this selection process. Late applications will only be considered if an additional student can be accommodated in the relevant subject group.

N.B. Lectures for the taught modules for this degree will be offered in the Faculty of Natural Sciences, Potchefstroom Campus until further notice. These however are with a single exception presented full-time only.

Introduction
The M.Com. degree is a qualification in the Faculty of Commerce and Administration following on a B.Com., Hons. B.Com. degree or an appropriate B.Sc. or Hons.B.Sc. degree.

The research component of the curricula for this degree is conducted in the Information Systems programme unit. The studies may be undertaken full-time or part-time.

Duration of the Studies
The minimum duration of the studies is one year full-time and two years part-time and the maximum duration is three years full-time and five years part-time, taken from the date of first registration for the specific programme. In the case of curricula following on a baccalaureus degree, the minimum duration is two years and the maximum duration four years. In terms of the procedure set out in the general rules, the student may apply for an extension of the period of study.

Assumed Prior Learning
The student has already obtained an appropriate baccalaureus degree and/or appropriate honours baccalaureus degree. If a student does not conform to the minimum admission requirements for the M.Com, the school director determines, in consultation with the research director and if necessary after consulting the Dean and with notice to the Faculty Board, whether the candidate may be admitted to the M.Com. studies on the strength of knowledge and skills acquired by prior learning and work experience that led to learning.

Programme-specific assumed learning is, where applicable, indicated in each of the programme descriptions.

Admission and Registration
The admission requirements and the prescribed dates for registration are set out in the general rules.

The relevant research director in consultation with the school director, may refuse admission to a programme if the standard of competence previously attained by the prospective student in the subject(s) in which he/she wishes to continue his/her studies does not have at least 60% at honours level and or conform to the relevant programme requirements.

If the applications received for a programme are more than the relevant department can handle in that programme, the group of students who, in the opinion of the research director in consultation with the school director, has the greatest chance of success will be selected for the programme. The background and potential of students will also be taken into account in this selection process.

Approval of the Study Programme
Approval of the study programme takes place on the basis of the provisions in the general rules and the relevant provisions in the *Manual for Postgraduate Studies*.

Prospective students must consult this manual carefully.

Articulation Possibilities
On successful completion of one of these M.Com. curricula the student may be admitted to further learning for the doctorate at NQF level 9 in the core subject in which the qualification has been taken.

Credits will be awarded for modules of other faculties and institutions on condition that the outcomes and total credit requirements of this qualification are totally complied with.

Changing from Master's Studies to Doctor's Studies
The general rules make provision for a student who is registered for a master's degree and has attained, according to the unanimous judgement of the study leader and the research and school directors concerned, outcomes of a quality and scope acceptable for a doctorate, to apply to the Faculty Board to change his/her registration for master's studies to that for a doctorate.

Exit Level Outcomes
Above and beyond the exit level outcomes and the critical outcomes as described in the general M.Com programme description the student will also have mastered the following specific knowledge and skills:

Knowledge
a) Knowledge of the research methodology and techniques in one of the subjects that will be demonstrated by writing a mini dissertation or dissertation on an advanced topic.
b) Knowledge of two or more advanced topics from one or more of the subjects as indicated below:
   Information Systems and Computer Science: linear programming, databases, data warehouses, pseudo-intelligence, decision support systems, information systems engineering and computer security.

Skills
On successful completion of the programme the student will be able to demonstrate that he/she has the following skills:
a) the ability to identify problems from reality with computer/ information systems content, formulate these in forms lending themselves to computer/ information systems handling, handle them with the most appropriate methods and communicate the solutions;
b) the ability to learn new techniques and theories necessary in solving a problem stated and to consult and use literature by so doing;

c) the ability to see problems of a computer/Information Systems nature in a broad context and to work on them in a team;
d) the ability to understand, utilise and generalise abstract theories;
e) the ability to structure arguments logically and use them coherently in effective subject communication for the benefit of the broad community when teaching computer science and information systems, up to a tertiary level;
f) the ability to act as an independent practitioner in anyone of the topics and to take the lead in standard research projects in the work context;
g) the ability to communicate with non-subject specialists in view of applying results of abstract theories in the community;
h) the ability to use appropriate computer technology and software;
i) the ability to communicate internationally with collegial peers.

Modules in the Curriculum (E870M)

	Semester 1			Semester 2	
Code	**Course Title**	**Cr.**	**Code**	**Course Title**	**Cr.**
ITRN872	Dissertation		ITRN872	Dissertation (continued)	100
RSWW811	Research Methodology	8	RSWW821	Research Communication	8
	Select, in consultation with the research and school directors, two of the following modules:				
ITRW876	Databases	32			
ITRW877	Decision Support Systems	32			
ITRW878	Artificial Intelligence	32			
ITRW883	Image Processing	32			
ITRW884	Information Systems Engineering	32			
ITRW885	Computer Security	32			
ITRW886	Data Warehouses	32			
			Total Credits for Curriculum		**180**

9 PROGRAMMES IN THE SCHOOL OF MANAGEMENT SCIENCES

9.1 Bachelor of Commerce (B Com Hons)

Purpose of Qualification

a) To provide qualifiers with comprehensive knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in the field of business, commerce and management studies; that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with commerce post-graduates who are capable of contributing to economic growth and job creation as entrepreneurs and professionals.
c) To provide South Africa with a significant number of commerce post-graduates in order to ensure that the local leadership base in innovative knowledge, economic and scholarly activity is widened.

Entrance Requirements

To be admitted to the qualification a student should have:
a) Formal Qualifications:
b) B.Com. Degree and have passed, with 60%, the final course in the subject in which he/she wishes to proceed; or
c) Be in possession of another degree and have passed at least five B.Com courses which include subjects such as Economics, Management, Accounting, and Quantitative Methods and have passed the final course in the subject in which he/she wishes to study; or
d) Post-graduate Diploma in Management or equivalent
   OR
e) Recognition of prior learning for access to this qualification
f) In cases where prior learning at other institutions, or relevant experience, is deemed by the Dean to compensate for the lack of formal qualifications required above, a candidate may be admitted to the Faculty.

Duration of Qualification
1. Minimum: Two Semesters
2. Maximum: Four Semesters

Minimum Credit Requirements
120 Credits

Programmes leading to the Qualifications

9.1.1 Human Resource Management (504111)

Purpose of the Programme
The postgraduate programme in Industrial Psychology is designed to provide students with a sound basis of Industrial Psychology theory as well as the application of principles in the business world.
a) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.

b) The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Human Resource managers/specialists, in academic institutions and in the new millennium in private as well as public sector organisations.

Admission Requirements

a) Admission to the Human Resource Management programme is limited to approved students with credits in Industrial Psychology/Human Resource Management at the 300 level or their equivalent or a related field, e.g. Management. (See also general rules for admission).

b) To be admitted to the Honours programme a student shall have obtained an average of 60% in IPSM311/HRNM311 and IPSM321/HRNM321 or equivalent.

c) Students admitted to the programme are expected to have a good grounding in Mathematics and Statistics. This requirement can be met by successfully completing STFM111 and STFM121.

Prescribed Curriculum (E603M) Total Credits 123

	Semester 1			Semester 2	
Code	Course Title	Cr.	Code	Course Title	Cr.
HRNM611	Human Resource Training and Development	12	HRNM621	Strategic Human Resource Management	12
HRNM612	The Human Resource Management Function	12	MCLM621	Labour Law	15
HRNM671	Research Project	60	IPSM622	Career Psychology	12
	Total Credits	84		Total Credits	39

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.1.2   Industrial Psychology (504112)

Purpose of the Programme

a) The postgraduate programme in Industrial Psychology is designed to provide students with a sound basis of Industrial Psychology theory as well as the application of principles in the business world.

b) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.

c) The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Psychometrists/Counsellors/Industrial Psychologists, in academic institutions and in the new millennium in private as well as public sector organisations.

Admission Requirements

a) Admission to the Industrial Psychology programme is limited to approved students with credits in Industrial Psychology at the 300 level or their equivalent or a related field, e.g. Human Resource Management (see general rules for admission).

b) To be admitted to the Honours programme a student shall have obtained an average of 60% in IPSM311 and IPSM321.

c) Students admitted to the Honours programme are expected to have grounding in Mathematics and Statistics. This requirement can be met by successfully completing STFM111 and STFM121

Prescribed Curriculum (E604M)   **Total Credits 123**

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	IPSM611	Psychometrics	12	IPSM622	Career Psychology	12
	HRNM612	HRM Functions	12	IPSM621	Organisational Behaviour	12
	IPSM671	Research Project	60	MCLM621	Labour Law	15
		Total Credits	**84**		**Total Credits**	**39**

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.1.3   Industrial Relations (504113)

Purpose of the Programme
a) The postgraduate programme in Industrial Relations is designed to provide students with a sound basis of Industrial Relations theory as well as the application of principles in the business world.
b) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.
c) The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Industrial Relations managers in academic institutions and in private as well as public sector organisations.

Admission Requirements
a) Admission to the Industrial Relations programme is limited to approved students with credits in Industrial Psychology at the 300 level or their equivalent or a related field, e.g. Human Resource Management (see general rules for admission)
b) To be admitted to this Honours programme a student shall have obtained an <u>average of 55%</u> in IPSM311 and IPSM321.
c) Students from other disciplines (e.g., those who majored in Management, Public administration, Psychology, Sociology or Communication) will also be considered for admission to the programme, provided that they have obtained a minimum of 60% in both of their majors.

Prescribed Curriculum (E605M)   **Total Credits 123**

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	HRNM612	HRM Functions	12	HRNM622	Collective Bargaining and Conflict Management	12
	HRNM613	Industrial Relations and the Environment	12	HRNM621	Strategic Human Resource Management	12
	HRNM671	Research Project	60	MCLM621	Labour Law	15
		Total Credits	**84**		**Total Credits**	**39**

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.1.4   Management (504115)

Purpose of Programme
a) The postgraduate programme in Management is designed to provide students with a sound basis of modern management theory in the business world.
b) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in business practice.
c) The curriculum is designed to develop managerial potential in students by exposing them to advanced functional disciplines in business management.
d) Exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as business economists, in academic institutions and in the new millennium private sector organizations.

Admission Requirements
a) Admission to the B Com Hons in Management programme is limited to approved students with credits in Management at the 300 level or their equivalent or a related field. (See general rules for admission)
b) To be admitted to the Honours programme a student shall have obtained an <u>average of 60%</u> in BMAN311, BMAN313 and BMAN321 and an aggregate of at least 55% in any THREE of the following courses: BMAN211, BMAN221, BMAN219, BMAN326, BMAN227, BMAN229, BMAN221.
c) Students admitted to the Honours programme are expected to have good grounding in Mathematics and Statistics. This requirement can be met by successfully completing STFM111 and STFM121.

Prescribed Curriculum (E607M)   **Total Credits 120**

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	MANM617	Operations Management	18	MANM624	Advanced Materials Management	18
	MANM618	Advanced Management Theories	18	MANM626	Problems of Financial Management	18
	MANM619	Marketing Research	18	MANM627	Strategic Management and Business Policy	18
	MANM671	Research Project	12			
		Total Credits	**66**		**Total Credits**	**54**

9.2   Bachelor of Administration (B Admin Hons)

Purpose of Qualification
a) To provide qualifiers with comprehensive knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in the field of public administration, public management, governance, and development management studies, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with post-graduates who are capable of leading extensive governmental and non-governmental administrative and management transformation, as well guiding improved infrastructures and services.

c) To provide South Africa with professionals who are able to contribute to, and act within, a democratic, accountable, and responsive public sector environment and non-governmental environment.

d) To provide South Africa with a significant number of post-graduates in order to ensure that the local administrative and political leadership base in innovative knowledge, economic and scholarly activity is widened.

Entrance Requirements

To be admitted to the qualification a student should have
Formal Qualifications:

a) B.Admin Degree or another approved related Administrative Bachelors Degree and have passed the final course, with 60%, in the subject in which he/she wishes to proceed; or

b) Be in possession of another degree and have passed at least five B Admin courses which include subjects such as Public Administration, Economics, Management, Accounting or/and Information Systems, Political Studies or International Relations, and Quantitative Methods and have passed the final course, with 60%, in the subject in which he/she wishes to study; or

c) Post-graduate Diploma in Management or equivalent, with an average of 60%.
   OR

d) Recognition of prior learning for access to this qualification

e) In cases where prior learning at other institutions, or relevant experience, is deemed by the Dean to compensate for the lack of formal qualifications required above, a candidate may be admitted to the Faculty.

Duration of Qualification

Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements

120 Credits

PROGRAMMES LEADING TO THE QUALIFICATION:

9.2.1   B.Admin Hons Human Resource Management (548104) (E611M) Total Credits 123

The programme is identical to the B.Com. Hons Human Resource Management.

9.2.2   B.Admin Hons Industrial Psychology (548105) (E612M)   Total Credits 123

The programme is identical to the B.Com. Hons Industrial Psychology.

9.2.3   B.Admin Hons Industrial Relations (548106) (E613M)   Total Credits 123

This programme is identical to the B.Com. Hons Industrial Relations.

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.2.4   B.Admin Hons Public Administration (548107)

Purpose of the Programme
a) To provide qualifiers with Graduate level knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in the field of public

administration, public management, governance, and development management studies, that would enable them to be self-driven, and integrated thinkers who can pursue continued professional growth.
b) To provide South Africa with Public Administration professionals who are able to contribute to, and act within, a democratic, accountable, and responsive public administration environment.
c) To provide South Africa with a significant number of graduates in order to ensure that the local administrative, political leadership, knowledge base and scholarly activity is widened.

Prescribed Curriculum (548107) (E610M)   Total Credits 120

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	PAYM611	Advanced Theories and Practices of Public Administration	12	PAYM671	Research Methods in Public Administration Year Module	32
	PAYM612 OR PAYM613	Public Organisation Science Advanced Public Management	12	PAYM627	Public Enterprises and Economic Development	12
	PAYM614	Research Methodology	12	PAYM621	Advanced Local Government Administration	16
	PAYM616	Advanced Public Human Resource Management	12			
	PAYM618	Advanced Public Financial Administration	12			
		Total Credits	**60**		**Total Credits**	**60**

9.3   Master of Commerce (M Com)

Purpose of Qualification
a) To provide qualifiers with an advanced knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in their chosen field, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge in commerce, business and management;
c) To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Requirements
To be admitted to the qualification a student should have:
Formal Qualifications

a) Approved Honours or equivalent with a 60% average
b) Approval of the School Director and the Dean.

Duration of Qualification
Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
180 Credits

PROGRAMMES LEADING TO THE QUALIFICATION:

9.3.1 M.Com Human Resource Management (505113)

Purpose of the Programme
a) The postgraduate programme in Human Resource Management is designed to provide students with a sound basis of Human Resource Management theory as well as the application of principles in the business world.
b) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.
c) The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Human Resource Management specialists, in academic institutions and in private as well as public sector organisations.

Admission Requirements
Admission to the Human Resource Management Masters programme is limited to approved students with an Honours degree in Industrial Psychology/Human Resource Management, with a 60% average. (Also see general rules for admission.)

Prescribed Curriculum
This programme can be through course work or by full dissertation:

Full Dissertation Option (E803M) Total Credits 120
This option requires registration in HRNM871: Full Dissertation in Human Resource Management.

Course Work Option (E804M) Total Credits 120
The following courses must be completed:

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	HRNM811	Human Resource Management Functions	15	HRNM821	Career Management	15
	HRNM812	Human Resource Training and Development	15	HRNM822	Strategic Human Resource Management	15
	HRNM873	Mini-Dissertation		HRNM873	Mini-Dissertation	60
		Total Credits	30		Total Credits	90

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.3.2   M.Com Industrial Psychology (505114)

Purpose of the Programme
a)   The postgraduate programme in Industrial Psychology is designed to provide students with a sound basis of Industrial Psychology theory as well as the application of principles in the business world.
b)   The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.
c)   The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Counsellors/Human Resource Management specialists, in academic institutions and in private as well as public sector organisations.

Admission Requirements
Admission to the Industrial Psychology Masters programme is limited to approved students with an Honours degree in Industrial Psychology, with a 60% average. (Also see general rules for admission.)

Prescribed Curriculum
This programme can be through course work or by full dissertation:

Full Dissertation Option
This option requires registration in IPSM871: Full Dissertation in Industrial Psychology. **(E805M)**
Total Credits 120

Course Work Option (E806M)   **Total Credits 120**
The following courses must be completed:

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	IPSM811	Assessment and Counselling	15	HRNM822	Labour Management	15
	IPSM812	Individual and Group Behaviour in Organisations	15	HRNM821	Career Management	15
	IPSM873	Mini-Dissertation	60	IPSM873	Mini-Dissertation	60
		Total Credits	90		Total Credits	30

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.3.3   M.Com Industrial Relations (505115)

Purpose of the Programme
d)   The Masters' programme in Industrial Relations is designed to provide students with a sound basis of Industrial Relations theory as well as the application of principles in the business world.

e) The postgraduate courses are in line with the development of academic research in the field and also with the increasing demand for quantitative techniques (for analysis) in practice.

f) The exposure to disciplines in a variety of functional areas will successfully prepare students for professional careers as Human Resource Management specialists/Industrial Relations managers, in academic institutions and in private as well as public sector organisations.

Admission Requirements
Admission to the Industrial Relations Masters programme is limited to approved students with an Honours degree in Industrial Relations, with a 60% average. (Also see general rules for admission.)

Prescribed Curriculum
This programme can be through course work or by full dissertation:

Full Dissertation Option
This option requires registration in HRNM871: Full Dissertation in Industrial Relations. **(E807M)**
Total Credits 120

Course Work Option (E808M)   **Total Credits 120**
The following courses must be completed:

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	HRNM811	Human Resource Management Functions	15	HRNM822	Labour Management	15
	HRNM812	Human Resource Training and Development	15	MCLM824	Dispute Resolution and the Regulation of Conflict	15
	HRNM873	Mini-dissertation	60	HRNM873	Mini-dissertation	60
		Total Credits	**90**		**Total Credits**	**30**

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

9.3.4   M.Com Management (505116) Total Credits 120

Purpose of the Programme
To prepare students for advanced research.
To prepare students for Doctoral work

Admission Requirements
This programme is limited to applicants with a B.Com Hons in Management, with a 60% average. (Also see general rules for admission.)

Programme Requirements
The programme is only available through a research dissertation. This route requires registration in MANM871: Full Dissertation **(E809M)**.

9.3.5　M.Com Entrepreneurship (505124) Total Credits 180

Purpose of the Programme
To prepare students for advanced research.
To prepare students for Doctoral work

Admission Requirements
This programme is limited to applicants with a B.Com Hons in Management, with a 60% average. (Also see general rules for admission.)

Programme Requirements
The programme is only available through a research dissertation. This route requires registration in ENTR872 and ENTR874: Full Dissertation **(E814M)**.

9.3.6　M.Com Marketing Management (505125)　　Total Credits 180

Purpose of the Programme
To prepare students for advanced research.
To prepare students for Doctoral work

Admission Requirements
This programme is limited to applicants with a B.Com Hons in Management, with a 60% average. (Also see general rules for admission.)

Programme Requirements
The programme is only available through a research dissertation. This route requires registration in BMAR872 and BMAR 874: Full Dissertation **(E815M)**.

9.3.7　M.Com Business Management (505134)　Total Credits 180

Purpose of the Programme
To prepare students for advanced research.
To prepare students for Doctoral work

Admission Requirements
This programme is limited to applicants with a B.Com Hons in Management, with a 60% average. (Also see general rules for admission.)

Programme Requirements
The programme is only available through a research dissertation. This route requires registration in BMAN872 and BMAN874: Full Dissertation **(E816M)**.

9.4　Master of Administration (M Admin)

Purpose of Qualification
1. To provide qualifiers with an advanced knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in their chosen field, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.

2. To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge;
3. To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Admission Requirements
To be admitted to the qualification a student should have

a) Approved Honours or equivalent with a 60% average
b) Approval of the School Director and the Dean.

Duration of Qualification
Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
180 Credits

It should be noted that some of the programmes will be presented only if there is an adequate number of students and on the availability of qualified personnel to present them.

PROGRAMMES LEADING TO THE QUALIFICATION:

9.4.1   M.Admin Human Resource Management (550100)(E814M/E815M) Total Credits 120

This programme is identical to the M Com Human Resource Management.

9.4.2   M.Admin Industrial Psychology (550101)(E816M/E817M)   Total Credits 120

This programme is identical to the M Com Industrial Psychology.

9.4.3   M.Admin Industrial Relations (550102)(E818M/E819M) Total Credits 120

This programme is identical to the M.Com Industrial Relations.

9.4.4   M.Admin Public Administration (550103)   Total Credits 120

Admission Requirements
Admission to the programme will be open to approved candidates in possession of a B Admin Hons in Public Administration or its equivalent, with a 60% average. (Also see general rules for admission.)

Prescribed Curriculum
The programme can be done through course work or by Full Dissertation.

Full Dissertation Option (E820M)
This option requires registration in PAYM871 Full Dissertation in Public Admin for 120 credits

Course Work Option (E821M)
Completion of a mini-dissertation in Public Administration.

Select **Three** of the following for the remaining 60 credits

Code	Title	Credits
PAYM811	Advanced Organisational Analysis	20
PAYM812	Environmental Management	20
PAYM813	Advanced Financial Administration	20
PAYM821	Advanced Human Resource Administration	20
PAYM822	Advanced Local Government Administration	20
PAYM823	Comparative Public Administration	20
PAYM873	Mini-dissertation	60
	Total Credits	**120**

9.5 Master of Public Administration (MPA) (557100)

Purpose of Qualification
a) To provide qualifiers with an advanced knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in their chosen field, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge;
c) To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Admission Requirements
To be admitted to the qualification a student should have
1. Formal Qualification, with a 60% average. (Also see general rules for admission.)
   Students from other disciplines (e.g. those who majored in Management, Psychology, Sociology, Communication, etc) will also be considered for admission to the programme
OR
2. Recognition of prior learning for access to this qualification
   In cases where prior learning at other institutions, or relevant experience, is deemed by the Dean to compensate for the lack of formal qualifications required above.

Duration of Qualification
Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
120 Credits

Degree Requirements
The presentation of a mini-dissertation in accordance with the general rules.

Programmes Leading to the Qualification

9.5.1 MPA Prescribed Programme (E831M) Total Credits 180

The following courses must be completed:

Year 1	Code	Course Title	Cr.
	MPAD 873	Mini-dissertation	100
	MPAD 874	Research Methodology for SMS I	20
	MPAD 875	Change Management	20
	MPAD 876	Communication and Customer Focus	20
	MPAD 877	The SA Economy in the global environment	20
		TOTAL	**180**

10 PROGRAMMES OF THE GRADUATE SCHOOL OF BUSINESS AND GOVERNMENT LEADERSHIP

10.1 Postgraduate Diploma In Management (PGDM)

The provisions of the rules for Honours degrees shall apply as adapted to the Postgraduate Diploma.

Purpose of the Programme

The programme provides students who have little or no managerial experience with a wide range of functional management skills in their chosen field of specialization. Specifically the programme aims to: -

a) provide a concentrated learning experience in specific management problems in a national and international environment for students with or without business or public management background;
b) develop competencies in strategic issues associated with organizations;
c) develop an intermediary understanding of fundamental concepts and principles from the various business and public disciplines;
d) enhance students' managerial skills through a commitment to an on-going managerial development; and
e) encourage students to think broadly and bridge gaps between theories and the actual practice of effective management.

Students may choose from the following:
- Financial Management
- Human Resource Management
- Marketing Management
- Training and Development Management
- Local Governance Management
- Operations Management
- Public Financial Management
- Labour Relations Management
- Small Business Management
- Information System Management
- Purchasing Management
- Public and Non-profit Management

This programme will enable students to gain relevant knowledge and skills and develop a deeper understanding of their particular specialization. In addition to the taught modules, a student must complete an assignment project of a limited scope on a topic selected to permit the student to use knowledge, theory and research skills obtained in classroom learning in an applied setting related to the individual's employment, interest or community.

Admission Requirements

a) Candidates wishing to apply must complete and submit an application form.
b) A person shall not be admitted as a candidate for the diploma unless he/she:
   i) is a graduate of this university or another university or equivalent tertiary institution recognized by senate for that purpose, or
   ii) has satisfied the Senate by means of such test as may be prescribed by the Graduate School Admissions Committee, that he/she has attained an equivalent level of competence for the purpose of study of this diploma, or

    iii) has considerable work experience which will be assessed on the basis of career to date and on management potential. Such candidates may be admitted to the programme with the permission of the Graduate School Admissions Committee;

c) A candidate must satisfy the Senate that his/her qualifications are adequate preparation of the work prescribed for the diploma. The Graduate School Admissions Committee may require a candidate whose qualifications it considers inadequate to complete an additional course or courses, prior to, or concurrently with, study for the diploma.

d) A candidate who does not have sufficient and appropriate background in statistics, computer technology, economics, financial management and accounting is expected to attend pre-diploma courses in the relevant course/s before the formal programme starts.

e) Candidates will be selected solely on the basis of merit, and, if need be, will be invited for a test or interview.

Duration of Qualification

Minimum: One year
Maximum: Three years subject to satisfactory progress
Minimum Credit Requirements: 120

Curriculum Structure

The programme consists of:
- Five common core modules
- 11 specializations, out of which a student selects one specialization consisting of four taught modules.
- An assignment project of a limited scope on a topic selected to permit the student to use knowledge, theory and research skills obtained in classroom learning in an applied setting related to the individual's employment, interest or community.

A.   CORE MODULES

Module Codes	Module Titles	Credits
CCMM 511	General Management	12
ADMM 511	Statistical Applications and Principles	12
CCMM 512	Economic Applications and Principles	12
CCMM 513	Foundation of Information Systems	12
CCMM 514	Accounting and Finance	12
Total		**60**

SPECIALISATIONS
Rules:
- Students are required to select one specialization.
- All modules within a specialization are compulsory.
- Any specialization will normally be offered if at least 10 students are registered for such specialization.
- Students may request amendments to the curriculum, programme or specialization at their first semester registration.

PROGRAMMES LEADING TO QUALIFICATION:

10.1.1   PGDM in Financial Management: 549 102

B.   FINANCIAL MANAGEMENT (E530M)

Module Codes	Module Titles	Credits
BFYM 521	Corporate Finance	12
BFYM 522	Investment Analysis and Portfolio Management	12
BFYM 523	Financial Institutions and Interest Rates	12
BFYM 524	International Finance	12
BFYM 525	Project Assignment on Financial Management	12
Total		**60**

10.1.2   PGDM in Human Resource Management: 549 101

C.   HUMAN RESOURCE MANAGEMENT (E531M)

Module Codes	Module Titles	Credits
GHRM 522	Training and Development Management	12
GHRM 523	Labour Law	12
GHRM 524	Organisational Behaviour	12
GHRM 526	Human Resource Management Systems	12
GHRM 525	Project Assignment on Human Resource Management	12
Total		**60**

10.1.3   PGDM in Marketing Management: 549 100

D.   MARKETING MANAGEMENT (E533M)

Module Codes	Module Titles	Credits
MKTM 521	Principles of Marketing and Advertising	12
MKTM 522	Marketing Research and Communication	12
MKTM 523	Theory and Analysis of Consumer Behaviour	12
MKTM 524	Marketing Strategy	12
MKTM 525	Project Assignment on Marketing Management	12
Total		**60**

10.1.4   PGDM in Training and Development Management: 549 103

E.   TRAINING AND DEVELOPMENT MANAGEMENT (E532M)

Module Codes	Module Titles	Credits
GHRM 526	Human Resource Management Systems	12
TDMM 521	Managing Training Function	12
TDMM 522	Training Design and Evaluation	12
TDMM 523	Issues in Education, Training and Development	12
TDMM 524	Project Assignment on Training and Development Management	12
Total		**60**

10.1.5 PGDM in Local Governance Management: 549 104

F.   LOCAL GOVERNANCE MANAGEMENT (E524M)

Module Codes	Module Title	Credits
GGMM 521	Governance and Management of Municipalities	12
GGMM 522	Management skills and service Delivery	12
GGMM 523	Intergovernmental Relations	12
GGMM 524	Municipal Financial Analysis and Management	12
GGMM 525	Project Assignment on Local Governance Management	12
Total		60

10.1.6 PGDM in Operations Management: 549 105

G.   OPERATIONS MANAGEMENT (E525M)

Module Codes	Module Title	Credits
GOPM 521	Operations Management	12
GOPM 522	Operations Strategy and Design	12
GOPM 523	International Operations Management	12
GOPM 524	Service/Quality Management	12
GOPM 525	Project Assignment on Operations Management	12
Total		60

10.1.7 PGDM in Public Financial Management: 549 107

H.   PUBLIC FINANCIAL MANAGEMENT (E526M)

Module Codes	Module Title	Credits
PFMM 521	Constitutional and Administrative Law	12
PFMM 522	Strategic Public Financial Management	12
PFMM 523	Fiscal and Tax Administration	12
PFMM 524	Auditing Principles and Practices	12
PFMM 525	Project Assignment on Public Financial Management	12
Total		60

10.1.8 PGDM in Labour Relations Management: 549 106

I.   LABOUR RELATIONS MANAGEMENT (E527M)

Module Codes	Module Title	Credits
GHRM 526	Human Resource Systems	12
LRMM 521	Employment Relations Management	12
LRMM 522	Collective Bargaining and Negotiations	12
LRMM 523	Organisational Systems and Design	12
LRMM 524	Project Assignment on Labour Relations Management	12
Total		60

10.1.9 PGDM in Small Business Management: 549 108

J.   SMALL BUSINESS MANAGEMENT (E528M)

Module Codes	Module Title	Credits
ADMM 521	Entrepreneurship	12
SBMM 521	Small Business Management	12
SBMM 522	Retailing and Merchandise	12
SBMM 523	International Small Business Management	12
SBMM 524	Project Assignment on Small Business Management	12
Total		**60**

10.1.10 PGDM in Information Systems Management: 549 109

K.   INFORMATION SYSTEMS MANAGEMENT (E529M)

Module Codes	Module Title	Credits
ISMM 521	Information Systems Strategy	12
ISMM 522	Knowledge-Base Management	12
ISMM 523	Business Process Re-Engineering	12
ISMM 524	Organisational Systems and Designs	12
ISMM 525	Project Assignment on Information Systems Management	12
Total		**60**

10.1.11 PGDM in Purchasing Management: 549 110

L.   PURCHASING MANAGEMENT (E534M)

Module Codes	Module Title	Credits
GPMM 522	Supply Chain Management	12
GPMM 521	Logistics Management	12
GPMM 523	Electronic Commerce (Business to Business Client)	12
GPMM 524	Procurement Management	12
GPMM 525	Project Assignment on Purchasing Management	12
Total		**60**

10.1.12 7.1.12 PGDM in Public And Non-Profit Management: 549 111

M. PUBLIC AND NON-PROFIT MANAGEMENT (E530M)

Module Codes	Module Title	Credits
GGMM 526	Poverty Alleviation and Community Development	12
PNMM 521	RSA Public Administration and its Legal Framework	12
PNMM 522	Development and Management of Non-Profit Org	12
PNMM 523	Public Policy Analysis	12
PNMM 524	Project Assignment of Public and Non-Profit Management	12
Total		**60**

Please refer to the PGDM Brochure for detailed module descriptions

10.2 Masters in Business Administration (MBA) (551 100)

Introduction

The programme ranks among its objectives, organisational literacy and pragmatic business skills as top priorities. It creates the necessary awareness of the broad context in which today's South African organisations operate.

Purpose of the Programme
The programme aims to:
a) Develop competency and work skills relevant to the demands of the private and public sectors
b) Cultivate the social development competency necessary in South Africa
c) Develop an ability to demonstrate a proficiency in the Masters degree (NQF-level) quality descriptors, in the work environment
d) Ensure that the programme outcomes satisfy all the relevant NQF-level descriptors

The broad foundation of the MBA Programme provides a holistic approach to all management subjects. The student's existing experience in business enterprises is utilized in the development of critical thinking skills, encouraging the deployment of innovative ideas in the face of challenges, whilst remaining true to the strategic integrity of a Masters in Business Administration.

GENERAL INFORMATION

Admission Requirements

The Graduate School accepts a wide range of candidates, the key criterion being that all participants must be able to demonstrate an ability to benefit from and contribute to the programme. In keeping with this philosophy, students should have three years or more working experience, preferably in a managerial position.

Students who wish to enrol should comply with the following admission requirements:

a) Complete and submit an Application Form

b) Hold a Bachelor's degree or its equivalent from a recognized institution of higher education. However in exceptional cases, candidates with considerable management experience and prior learning may be admitted with approval of the Academic Programmes Committee

c) Have three years or more working experience preferably in a managerial position

d) Submit two letters of recommendation (at least one being from a current or former employer)

e) Submit an official transcript of his/her academic record

f) Submit an updated curriculum vitae

g) Pay a prescribed application fee

h) Complete the GMAT or GMIT

i) Submit a written essay or personal statement outlining aims and objectives for undertaking the field of study

j) Provide evidence of computer literacy upon admission

k) Attend any pre-MBA courses prescribed by the Graduate School prior to admission should they have insufficient grounding in statistics, computer technology, economics, financial management and/or accounting.

Duration of Qualification
Minimum: Two years
Maximum: Five years subject to satisfactory progress

Minimum Credit Requirements
240 Credits

Programme Outcomes

Generic Outcomes
Upon completion of this degree, all MBA graduates should be able to:

a) Apply skills acquired from general business and management knowledge including the functional disciplines of accounting, economics, finance, information systems, marketing, management, leadership, organizational environments, operations management, international issues and strategy.

b) Demonstrate the ability to apply multiple theoretical perspectives to complex managerial issues for effective problem solving and decision-making in contemporary organizational environments and successfully communicate decisions and conclusions to appropriate individuals and groups.

c) Evaluate, select and integrate information and organizational processes in order to assess the impact of environmental forces on organizations, including ethical, social, economic and technological issues of change, and the likely effects of international development.

d) Apply appropriate interpersonal and group management skills in various team-based activities of different organizations in the public and private sector.

e) Demonstrate mastery in comprehensive skills needed for managing and resolving conflict at all levels of hierarchal organizations including those of communicating, advocating, negotiating, mediating and arbitrating.

f) Continue with the advancement of knowledge and understanding in the pursuit of new skills to ensure continuing professional development.

Specific Outcomes
Specific outcomes relating to knowledge and understanding, intellectual skills, practical skills, and transferable skills are detailed in the MBA brochure.

Programme Structure
The programme consists of:

- **fundamental modules** at Postgraduate Diploma in Management level for students who have insufficient grounding in Statistics, Computer Studies, Economics, Financial Management and Accounting
- **13 core modules**, 8 in the first year and 5 in the second year, allowing students to receive training and education in a range of general but essential skills and techniques, whilst facilitating the cross-fertilization of ideas and practices
- **3 electives**, selected by the student from any one of the 7 clusters. Electives provide greater depth and understanding to the subject area of choice and equip the student with the skills and techniques necessary for the mini-dissertation.
- **A dissertation** of 10 000 to 15 000 words entailing an analysis of a real business or public management-related problem, to be completed by all students.

Year	Code	Semester 1 Course Title	Cr.	Code	Semester 2 Course Title	Cr.
1	ADMM 819	Human Resource Management	12	ADMM 821	Information Technology Management	12
	ADNM 811	Change Management and Organisational Behaviour	12	ADMM 823	Managerial Economics	12
	ADNM 812	Governmental and Legal Environment of Business	12	ADNM 815	Financial Management	12
	ADNM 813	Marketing Management	12			
	ADNM 814	Business Research Methods and Statistics	12			
	Total 1st Semester Credits		**60**	**Total 2nd Semester Credits**		**36**
2	YBAM 817	Management Accounting	12		Elective 1	12
	YBAM 818	Strategic Management and Business Policy	12		Elective 2	12
	ADMM 813	Project Management	12		Elective 3	12
	YBAM 813	Operations Management	12	YBAM 873	Mini-Dissertation	48
	YBAM 819	Leadership and Negotiation Strategy	12	Total 2nd Semester Credits		84
	Total 1st Semester Credits		**60**	**Total Programme Credits**		**240**

ELECTIVES

Rules
- Three modules are selected by the student from any one of the seven clusters.
- Any module within a cluster will normally be offered if at least 10 students are registered for such a module.
- Not all elective modules will necessarily be offered every year.
- Amendments to the curriculum/programme/elective cluster may only be requested during first semester registration.
- In order to register for the MBA (Finance) [E831M] students should have successfully completed Financial Management (ADNM 815) with at least a 60% final mark.

10.2.1 CLUSTER A: MBA Finance- E831M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
MBFM 821	International and Corporate Finance	12
MBFM 822	Derivatives and Risk Management	12
MBFM 823	Financial Planning	12
MBFM 824	Investment and Portfolio Management	12
Total		48

10.2.2 CLUSTER B: MBA Human Resource Management- E832M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
ADMM 822	Labour and Industrial Relations	12
YBAM 825	Strategic Human Resource Management	12
YBAM 826	Performance and Compensation Management	12
MBHM 821	Capacity Building and Productivity Development	12
Total		48

10.2.3 CLUSTER C: MBA Public Sector Management – E833M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
MBPM 821	Public Service Management	12
MBPM 822	Local Governance and Management	12
MBPM 823	Public Policy Management	12
MBPM 824	Public Financial Management	12
Total		48

10.2.4 CLUSTER D: MBA Business and Governmental Relations- E834M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
ADMM 811	Public Enterprises, Public Private Partnerships	12
MBPM 825	Environmental Management and Risk Analysis	12
MBPM 826	Public Economics	12
ADMM 812	Managing International Development	12
Total		48

10.2.5 CLUSTER E: MBA Operations and Decision Management- E835M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
MBOM 821	Product Design and Process Selection	12
YBAM 814	Materials Management	12
MBOM 822	Decision Making Models	12
MBOM 823	Supply Chain Management	12
Total		**48**

10.2.6 CLUSTER F: MBA Entrepreneurial Management- E836M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
MBEM 821	Small Business Management	12
MBEM 822	Marketing in Small Business	12
MBEM 823	Financial Aspects of Small Business	12
MBEM 824	Legal Environment of Small Business	12
Total		**48**

10.2.7 CLUSTER G: MBA Marketing Management- E837M

Students should choose three modules from this cluster

Module Codes	Module Titles	Credits
MBMM 821	Promotions Management	12
MBMM 822	Services Management	12
MBMM 823	Product, Price and Distribution Management	12
MBMM 824	Global Marketing	12
Total		**48**

Please refer to the MBA Brochure for detailed module descriptions.

TEACHING AND LEARNING STRATEGY

In-depth learning, active engagement and the achievement of higher level learning outcomes are encouraged through the teaching and assessment methods adopted. These approaches include:

a) Active student participation
b) Encouraging independent learning
c) Teaching and learning methods involve personal study using prescribed text books, journals, presentations, discussions and group work. Students may draw upon recent case studies in a relevant module for projects. Together these methods achieve the aims and outcomes of each module.
d) Clear programme expectations and learning outcomes
e) An emphasis on critical thinking rather than rote learning
f) Ensuring that study is relevant to the business environment

ASSESSMENT METHODS

1. Individual assignments, class participation as well as individual and group presentations are used to assess student's knowledge of the functional management disciplines and in particular their ability to analyse and quantify management information.
2. Both formative as well as summative assessment occurs, where 50% of a course mark arises from continuous assessment (normally covering an individual and group assignment, a class test as well as attendance) and the remaining 50% is determined by the final examination.
3. Students have the opportunity, at the end of each module, to evaluate faculty facilitation and contact for that module and, at the end of the programme, benchmarking surveys are conducted to determine student satisfaction with the integration of the curriculum covering the functional areas of management as well as the programme's ethical and environmental dimensions.
4. Creativity and research skills are gauged through guided independent research.
5. A final mark of 50% constitutes a "pass" for all modules including the research project provided a subminimum of 45% and 40% in the final examination for course work modules (on the MBA and PGDM respectively) is achieved.
6. Since Strategic Management and Business Policy stress the integration of the curriculum for general management, the courses are core and must be successfully completed.

LENGTH OF MINI DISSERTATION

A mini dissertation should have no less than then thousand (10000), and no more than fifteen thousand (15000) words, excluding titles, acknowledgements, abstracts, indexes and references. This converts to 40 to 60 typed A4 pages at an average of 250 words per page in 12 point font with double line spacing, or 34 to 51 typed A4 pages at an average of 300 words per page in 11 point font with double line spacing.

11 PROGRAMMES NOT INVOLVING COURSEWORK AND THEIR QUALIFICATIONS – ALL SCHOOLS

11.1 MASTER OF PHILOSOPHY (M Phil) (187105) Total Credits 120

Purpose of Qualification
a) To provide qualifiers with an advanced knowledge, analytical skills, interpersonal skills, effective oral and written communication skills, problem solving skills in their chosen field, that would enable them to be self-driven, and integrated thinkers who can critically evaluate the literature pertaining to the field of specialization and continue professional growth.
b) To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge;
c) To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Admission Requirements
To be admitted to the qualification a student should have:
1. Formal Qualifications
   An approved Honours Degree or equivalent;
   OR
2. Recognition of prior learning for access to this qualification

In cases where prior learning at other institutions, or relevant experience, is deemed by the Dean to compensate for the lack of formal qualifications required above, a candidate may be admitted to M.Phil.
3. Approval of the School Director and the Dean.

Duration of Qualification
Minimum: Two Semesters
Maximum: Four Semesters

Minimum Credit Requirements
120 Credits

Full Dissertation option: E860M

Course Code	Course Title	Credits
PAYM 871	Full-Dissertation	120

Degree Requirements
The candidate must present a thesis in accordance with the general rules.

Programmes Leading to the Qualification

11.2   DOCTOR OF PHILOSOPHY (Ph D)   TOTAL CREDITS 360

Purpose of Qualification
a) To provide qualifiers with specialist knowledge and research skills characterized by intellectual independence and capacity for further research at an advanced level.
b) To provide qualifiers with the capacity for dealing with complexity, lacunae and/or contradictions in the knowledge base.
c) To provide South Africa with researchers who are capable of contributing to the production and advancement of knowledge in commerce, business and management.
d) To provide South Africa with a significant number of researchers in order to ensure that the local research leadership and scholarly activity is widened.

Admission Requirements
To be admitted to the qualification a student should have:
1. M Phil Degree or equivalent Masters Degree (passed with 60%)
2. Approval of the School Director and the Dean.

Duration of Qualification
Minimum: Four Semesters
Maximum: Six Semesters

Minimum Credit Requirements
240/360 Credits

Degree Requirements
The presentation of a thesis in accordance with the general rules.

Programmes Leading to the Qualification
Ph.D. candidates must for the duration of their study be registered in the research course indicated in their chosen programme.

11.2.1 PhD Marketing Management (506125) 360 Credits

BMAR971: Thesis in Marketing Management *(E914M)*

11.2.2 PhD Entrepreneurship (506124) 360 Credits

ENTR971: Thesis in Entrepreneurship *(E915M)*

11.2.3 PhD Economics (506112) 360 Credits

ECON971: Thesis in Economics *(E902M)*

11.2.4 PhD Business Management (506108) 360 Credits

BMAN971: Thesis in Management *(E916M)*

11.2.5 PhD Industrial Psychology (506113) 240Credits

IPSM971: Thesis in Industrial Psychology *(E903M*)

11.2.6 PhD Labour Relations Management (506136) 360 Credits

LARM971: Thesis in Labour Relations Management *(E923M*)

11.2.7 PhD Information Systems (506114) 240 Credits

INYM971: Thesis in Information Systems *(E904M)*

11.2.8 PhD Statistics (506115) 240 Credits

STFM971: Thesis in Statistics *(E905M)*

11.2.9 PhD Operations Research (506116) 240 Credits

STOM971: Thesis in Operations Research *(E906M)*

11.2.10 PhD Business Management (506108) 360 Credits

MBAM 971**:** Thesis in Business Management and Administration *(E901M)*

11.2.11 PhD Public Administration (553100) 240 Credits

PAYM 971**:** Thesis in Public Administration *(E901M)*

12 MODULE DETAILS – POSTGRADUATE

12.1 Economics

Module Code: ECAM611   Applied Microeconomics
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the advanced tools in Microeconomic Theory.
b) Understand advanced theory of Consumer behaviour
c) Understand advanced theory of Production
d) Understand advanced theory of Costs
e) Understand advanced theory of different Market structures.
Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECAM612   Applied Macroeconomics
Module Outcomes: On completion of the module, the student should be able to:
a) Explain advanced theories in Macroeconomics
b) Analyse the economy in the long run.
Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECAM613   Planning Techniques
Module Outcomes: On completion of the module, the student should be able to:
a) Understand and explain what planning techniques is and differentiate planning techniques
b) Understand the main techniques and models for economic planning and development.
c) Understand and apply the techniques to economic planning in South Africa and other countries.
Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: ECAM611 and ECAM612
Credits: 15

Module Code: ECAM621   Monetary and Fiscal Policy
Module Outcomes: On completion of the module, the student should be able to:
a) Demonstrate well-rounded and systematic knowledge of current fiscal and monetary policy issues in the South African context;
b) Demonstrate as an individual and/or part of a group, the practical skills to identify current policy issues (e.g. fiscal rules or monetary targets) and to recommend the appropriate policy action;
c) Demonstrate the competence to evaluate different forms of government intervention in the economy and to communicate recommendations to policymakers and stakeholders in written reports and oral presentations using the appropriate IT.
Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: ECAM611 and ECAM612
Credits: 15

Module Code: ECAM622   Advanced Planning Techniques
Module Outcomes: On completion of the module, the student should be able to:
a) Understand and discuss how organization conduct various steps and using planning techniques.
b) Understand and explain the formulation and evaluation of various kind of planning models.
c) Understand and describe input-output analysis and its accounting framework.
d) Understand Advanced planning techniques in Macro-planning.

Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: ECAM612 and ECAM611
Credits: 15

Module Code: ECAM623 <u>Cost Benefit Analysis</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the policy objective and the utility nature.
b) Understand the applications and limitations of CBA.
c) Understand the value determination in CBA.
d) Understand the criteria for project assessment and procedure for the application of CBA.
Assessment: 2 Tests, Assignments and Formal Examination
Pre-Requisites: ECAM611 and ECAM612
Credits: 15

Module Code: ECAM671 <u>Research</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Develop a research model;
b) Investigate a research problem;
c) Analyse and report on the data gathered.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 30

Module Code: ECNM611 <u>Microeconomic Theory</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the advanced tools of analysis in Microeconomic Theory.
b) Describe the advanced theory of Consumer behaviour
c) Describe the advanced theory of Production
d) Explain the advanced theory of Costs
e) Understand advanced theory of different Market structures.
Assessment: 2 Tests, 2 mini research presentations and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM612 <u>Macroeconomic Theory</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the theories of economic growth
b) Understand the major macroeconomic problems
c) Interpret the government's role in the economy with its policies
d) Explain equilibrium in different markets
e) Understand the types of inflation and its causes
Assessment: Tests, Assignments and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM613 <u>Models in Economics</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Understand and apply matrix algebra
b) Apply linear programming as an economic modelling technique
c) Apply and use input-output tables
d) Apply and use social accounting matrices
e) Apply and use simple game theory models

Assessment: Assignments and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM623 Power System Economics
Outcomes: On completion of the module, the student should be able to:
a) Understand the background of the electricity supply industry
b) Interpret different electricity markets
c) Model electricity industry with different assumptions
Assessment: Term paper, formal examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM624 General Equilibrium Theory and Welfare Economics
Module Outcomes: On completion of the module, the student should be able to:
a) Understand and apply the different models of partial and general equilibrium
b) Understand and analyse different social welfare theories.
c) Understand public policy analyses from the point of view of welfare Economics
Assessment: Tests, Assignments and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM621 Econometrics
Module Outcomes: On completion of the module, the student should be able to:
a) apply and understand the simple regression model to cross-section and time series data
b) apply and understand simple cross-section data analysis techniques
c) apply and understand simple time series data analysis techniques
Assessment: Assignments, tests and a short paper (about 15 pages
Pre-Requisites: None
Credits: 15

Module Code: ECNM622 Public Policy Analysis
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the theory of public finance in terms of public revenue and expenditures
b) Explain the economic functions of government;
c) Analyse all aspects of government expenditure
d) Describe a framework for tax analysis and explain theories of taxation
Assessment: 2 Term papers, and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM623 Power Systems Economics
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the background of the electricity supply industry
b) Interpret different electricity markets
c) Model electricity industry with different assumptions
Assessment: Term paper, Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: ECNM671 Research Project
Module Outcomes: On completion of the module, the student should be able to:

a) Develop a research proposal
b) Investigate a research problem
c) Analyse and report on the data gathered
Assessment: Submission of a research project.
Pre-Requisites: None
Credits: 30

Module Code: ECON971 <u>Thesis</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Identify a research problem in the Economics area
b) Apply skills and principles of conducting research
c) Write a research report which is academically and professionally acceptable
Assessment: Submission of a research report
Pre-Requisites: None
Credits: 360

12.2   Human Resource Management

Module Code: HRNM621 <u>Strategic Human Resource Management</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Comment on the importance of strategic HRM in private and public sector organisations
b) Evaluate the various strategic approaches
c) Analyse HR needs
d) Advise management on the application of HR strategy
e) Develop a human resource strategic plan
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: HRM718
Credits: 12

Module Code: HRNM613 <u>Industrial Relations and the Environment</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Comment on the importance of the role of the ILO in labour Matters
b) Distinguish between the influence of the micro and macro environment on industrial relations
c) Critically evaluate the role and function of the trade unions in the labour milieu
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 12

Module Code: HRNM611 <u>Human Resource Training and Development</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Distinguish between the micro and macro environments of Training and development in South Africa
b) Analyse training needs
c) Design training programmes
d) Plan and implement training programmes
e) Evaluate training programmes
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 12

Module Code: HRNM612   <u>The Human Resource Management Function</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Identify the different steps in the provisioning process

b) Advise management on selection, placement, evaluation and strategy

c) Develop and implement sound human resource policy practice

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 12

Module Code: HRNM622   <u>Collective Bargaining and Conflict Management</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Advise management on HRM policy and practice

b) Develop procedures to ensure sound functioning of the HRM function

c) Advise management on HRM strategy

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: HRNM611

Credits: 12

Module Code: HRNM671   <u>Research Project</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Develop a research proposal

b) Investigate empirically a research problem

c) Analyse and report on the data gathered

Assessment: Submission of a research project

Pre-Requisites: None

Credits: 32

Module Code: HRNM811   <u>Human Resource Management Functions</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Advise management on HRM policy and practice

b) Develop procedures to ensure sound functioning of the HRM function

c) Advise management on HRM strategy

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 15

Module Code: HRNM812   <u>Human Resource Training and Development</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Advise management on the impact of organisational dynamics on survival and growth.

b) Investigate the influence of organisational system variables on satisfaction, absenteeism, turnover and productivity.

c) Recommend structures and systems for effective management

d) Select appropriate intervention strategies to address organisational problems

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 15

Module Code: HRNM821   <u>Career Management</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Identify, and apply the different strategies used for career management

b) Advise management on the formulation of career management programmes, and their implementation

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None
Credits: 15

Module Code: HRNM822 <u>Labour Management</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Advise management on all labour management matters
b) Develop sound labour management policy and practice
c) Recommend appropriate interventions
d) Advise management on the resolution of disputes
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 15

Module Code: HRNM871 <u>Full Dissertation</u>
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 180

Module Code: HRNM873 <u>Mini-Dissertation</u>
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 90

Module Code: HRM971 <u>Thesis</u>
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

12.3 Industrial Psychology

Module Code: IPSM621 <u>Organisational Behaviour</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Suggest strategies to apply organisational behaviour practices and principles in industry and the private sector
b) Advise management on individual and group behaviour and its impact on satisfaction, absenteeism, turnover and productivity
c) Critically evaluate the relative influences of individual, group and organisational structure variables on satisfaction, absenteeism, turnover and productivity
Assessment Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 12

Module Code: IPSM611 <u>Psychometrics</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Advise Management On The Use Of Psychological Testing

b) Critically Evaluate The Influence Of Culture And Other Extraneous Variables On Test Results

c) Evaluate Test Results And Provide Concomitant Counselling.

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 12

Module Code: IPSM622 Career Psychology

Module Outcomes: On completion of the module, the student should be able to:

a) Comment on the importance of career management to both individuals and organisations

b) Compare the merits of different theories for career choice

c) Motivate the application of different strategies for career management

d) Evaluate the significance of life cycles to career stages and analyse the impact thereof on human resource management

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 12

Module Code: IPSM671 Research Project

Module Outcomes: On completion of the module, the student should be able to:

a) Develop a research proposal

b) Investigate empirically a research problem

c) Analyse and report on the data gathered

Assessment: Submission of a research project

Pre-Requisites: None

Credits: 32

Module Code: IPSM811 Assessment and Counselling

Module Outcomes: On completion of the module, the student should be able to:

a) Assess and interpret test results

b) Choose test batteries for specific purposes

c) Advise management on the administration, usage and control of a, b and c-level tests

d) Investigate the reliability and validity of test batteries

e) Evaluate psychometric testing programmes

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 15

Module Code: IPSM812 Individual and Group Behaviour in Organisations

Module Outcomes: On completion of the module, the student should be able to:

a) Investigate the influence of individual and group variables on satisfaction, absenteeism, turnover and productivity

b) Advise management on techniques to influence individual and group behaviour

c) Validate the use of different interventions aimed at addressing organisational problems

d) Develop motivational strategies for both individuals and groups

Assessment: Continuous Assessment and Formal Examination

Pre-Requisites: None

Credits: 15

Module Code: IPSM873 Mini-Dissertation

Module Outcomes: On completion of the module, the student should be able to:

Conduct and report on an independent research.

Assessment: Submission of a report

Pre-Requisites: None

Credits: 90

Module Code: IPSM871 Full Dissertation
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 180

Module Code: IPSM971 Thesis
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

12.4 Information Systems

Module Code: INYM611 Advanced Databases Systems
Module Outcomes: On completion of the module, the student should be able to:
a) Distinguish a data warehouse from an operational database system, and appreciate the needs for developing a data warehouse for large corporations
b) Explain the process of data mining and its techniques and understand the requirements for connecting database systems to the Web
c) Understand client/server database systems and describe the essential characteristics of distributed database systems
d) Describe the essential characteristics of object databases
e) Explain the role of the database administrator in supporting other types of staff within an organization
Assessment: Practical case study demonstrations, individual and team projects, assignments and presentations, tests and formal examination
Pre-Requisites: INYM226 /INYM313 or equivalent
Credits: 20

Module Code: INYM612 Software Engineering
Module Outcomes: On completion of the module, the student should be able to:
a) Select among alternatives, an appropriate methodology for building a system.
b) Perform requirements analysis for a project implementation and produce a requirements analysis document
c) Criticize a given set of documentation for a software product
d) Select suitable verification and validation techniques to test software and record findings
e) Modify code to conform to a new set of specifications
Assessment: Assignments, mini-project examination
Pre-Requisites: INYM 216, INYM 312 or equivalent
Credits: 20

Module Code: INYM613 Programming Languages
Module Outcomes: On completion of the module, the student should be able to:
a) Analyse programming language design issues relating to data types, expressions and control structures
b) Develop a program in a dynamically type language
c) Design and run a table-driven parser for a simple context-free language

d) Analyse parameter passing methods of a given programming language

e) Analyse variable binding and scope rules

Assessment: Structured Lab/programming exercises Assignments tests, individual or group projects, presentations and a three hour written examination.

Pre-Requisites: INYM 122, INYM 216 or Equivalent, i.e. understanding of common programming languages such as C, C++, C#, Java etc is a must.

Credits: 20

Module Code: INYM617   Intelligent Systems

Module Outcomes: On completion of the module, the student should be able to:

a) To implement a system using an expert systems shell

b) To use the fundamental algorithm of an AI approach

c) To build and deploy software utilizing intelligent agents.

d) Analyse and report on the advantages and disadvantages of a given intelligent agent

e) Use alternative search strategies in solving AI problems

Assessment: Working Projects; Written Reports; Tests and Exam

Pre-Requisites: INYM 325

Credits: 20

Module Code: INYM621   Management of Information Technology

Module Outcomes: On completion of the module, the student should be able to:

a) Identify the role ICT and IS/IT department play in adding value to an organization

b) Develop an IS Operational/Tactical/Strategic Plan for an organization

c) Develop standards and policies for the IS department which are aligned to organizational goals

d) Understand the issues involved in ICT planning, examine future ICT trends and their possible impact on organizations competitive advantage

e) Identify the role of the IS department and CIO in an organization

Assessment: Written Reports, Case studies, Presentations, and a formal examination.

Pre-Requisites: INYM 327 or equivalent

Credits: 20

Module Code: INYM622   IT Security

Module Outcomes: On completion of the module, the student should be able to:

a) Identify security and privacy considerations and how they may be solved

b) Discuss methods of risk assessment and reduction

c) Asses the security of a systems based on the methods and devices used

d) Identity possible security risks in a given system

e) Design and Implement a plan for security and control and system integrity

Assessment: Group Projects, Case Studies and Exams

Pre-Requisites: INYM219, INYM225 or equivalent

Credits: 20

Module Code: INYM624   Operating Systems

Module Outcomes: The successful student will be able to understand the basic components of a computer operating system, and the interactions among the various components. The course will cover an introduction on the policies for scheduling, deadlocks, memory management, synchronization, and file systems. The students will implement solutions via C/C++ programs.

Ultimately the student will:

a) Learn how to make effective use of operating system by writing programs that exercise specific components in a modern operating system nucleus.

b) Become familiar with principles for process and thread management, memory management, file management, and device management.

c) Learn to design and evaluate virtual machine models that support autonomous program execution, cooperating sequential computations, resource sharing, exclusive control of resources, deadlock management, and broad protection mechanisms.

d) Learn the basic principles of networks and distributed systems.

e) Become well versed in the design and use of one OS, e.g., LiNUX

Assessment: Structured laboratory exercises, projects, and a formal examination.
Pre-Requisites: INYM217, INYM216 and knowledge of C++
Credits: 20

Module Code: INYM627 Human Computer Interaction
Module Outcomes: On completion of the module, the student should be able to:
a) Provide a critique of user interfaces
b) Build a computer based instruction unit to teach users how to use an interface
c) Analyse and redesign the organisation of laboratories
d) Develop security capabilities for interfaces

Assessment: Written Reports, Case studies, Presentations
Pre-Requisites: INYM216
Credits: 20

Module Code: INYM628 Computer Communications and Networks
Module Outcomes: On completion of the module, the student should be able to:
a) Analyze the basics of data communications and network architecture
b) Analyze functions of each layer of a computer network.
c) Evaluate essential features of specific protocols in the common protocol suite.
d) Analyze the methodology and the rationale behind addressing, routing, and congestion control.
e) Evaluate the various multiplexing and switching methods used in networks.
f) Evaluate wireless LANs, high-speed digital access, such DSL and cable modem, cellular phone and satellite networks.

Assessment: Examination
Pre-Requisites: Undergraduate networking courses/prior exposure to networking fundamentals courses
Credits: 20

Module Code: INYM671 Research Project
Module Outcomes: This short course introduces students to the concepts and philosophies underlying academic research and the scientific method. The process, assumptions, strengths and weaknesses of the scientific method are explored together with alternative paradigms. Students will be in a position to define their research problem on completion of this course.
Upon completion of this short course, students should be able to:
a) understand the scientific method as used for academic research.
b) understand the various stages of conducting academic research.
c) critically evaluate what constitutes academic research.
d) write an appropriate research problem with proper background, assumptions and delimitations.

Overall Project Outcomes: The following exit level outcomes are to be assessed:
a) Problem Solving
b) Application of theoretical knowledge (scientific / or otherwise).
c) Full Design and its Completeness.
d) Professional and technical written and oral communication.

Assessment: Presentations, demonstrations as well as a formal report. The assessment is in three phases. [see study guide for more details]
Pre-Requisites: Research Methodology [2 to 3 weeks compulsory course prior to commencement of project]
Credits: 20

12.5 Management

Module Code: MANM617 <u>Operations Management</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Explain the concept of the operations management and discuss its relationship with other management functions.
b) Outline the problems associated with operations management.
c) Discuss the concepts of product design, process design, capacity planning and scheduling.
d) Simulate and design a framework for managing a workforce.
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM618 <u>Advanced Management Theories</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Identify and discuss the schools of thought on the evolution of management.
b) Discuss the theories of leadership and leadership styles.
c) Explain the concepts of organizational culture and change management.
d) Identify the appropriate stance of social responsibility for organisations operating in different socio-economic environments.
e) Discuss the need for managerial ethics and organisational code of conduct.
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM619 <u>Marketing Research</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Explain the importance of Marketing Research.
b) Design and implement a Marketing Research project.
c) Conduct a data collection exercise.
d) Present the results of a survey in report format.
e) Identify with accepted Marketing Research ethics in the marketing profession.
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM624 <u>Advanced Materials Management</u>
Module Outcomes: On completion of the module, the student should be able to:
a) Assess the role of Materials Management in an organisation
b) Develop procedures and policies for the function
c) Explain the value of techniques as quality control, negotiations, supplier management and purchasing research in materials management.
d) Design and implement an inventory management and control.
e) Combine materials management systems with electronic data processing.
Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM626 <u>Problems of Financial Management</u>
Module Outcomes: On completion of the module, the student should be able to:

a) Explain the finance function, its role and its relationship with other functions of management.
b) Develop financial policies and implement control and discipline.
c) Determine the capital requirements of an organisation.
d) Negotiate for capital funding for organisations.
e) Report to top management on financial matters - policy implementation, and adherence to control measures.

Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM627 Strategic Management and Business Policy
Module Outcomes: On completion of the module, the student should be able to:
a) Explain the importance of strategic planning and management in organisations.
b) Apply the Strategic Audit technique of organisational analysis.
c) Design and implement different strategies in an organisation.
d) Outline company profiles and conduct a competitor analysis for Top Management.
e) Produce in a report format, the results of a case analysis.

Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: None
Credits: 18

Module Code: MANM671 Practical Research Project
Module Outcomes: On completion of the module, the student should be able to:
a) Explain the importance of practical research projects.
b) Design and implement a research project
c) Explain the objectives and uses of practical research outcomes.
d) Select an appropriate method for the project.
e) Submit an acceptable research report.

Assessment: Continuous Assessment and Formal Examination
Pre-Requisites: Topic to be approved by Head of the Department of Management
Credits: 12

Module Code: MANM871 Management Dissertation
Module Outcomes: The student should be able to produce an acceptable research report.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 180

Module Code: BMAN971 Business Management Doctoral Thesis
Module Outcomes: The student should be able to:
a) Autonomously plan and execute a research project
b) Conduct a high-level theoretical analysis of a related topic in business management
c) Formulate integrated theoretical perspectives
d) Test the theory in practice by applying research methodology
e) Collect data by using different data collection methods
f) Analyse and interpret data by using different statistical techniques
g) Demonstrate a high-level research capability
h) Make recommendations regarding the researched subject
i) Make a significant and original academic contribution at the frontiers in the field of business management.

Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

Module Code: BMAR971   <u>Marketing Management Doctoral Thesis</u>

Module Outcomes: The student should be able to:

a) Autonomously plan and execute a research project
b) Conduct a high-level theoretical analysis of a related topic in marketing management
c) Formulate integrated theoretical perspectives
d) Test the theory in practice by applying research methodology
e) Collect data by using different data collection methods
f) Analyse and interpret data by using different statistical techniques
g) Demonstrate a high-level research capability
h) Make recommendations regarding the researched subject
i) Make a significant and original academic contribution at the frontiers in the field of marketing business management.

Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

Module Code: ENTR971   <u>Entrepreneurship Doctoral Thesis</u>

Module Outcomes: The student should be able to:

a) Autonomously plan and execute a research project
b) Conduct a high-level theoretical analysis of entrepreneurship
c) Formulate integrated theoretical perspectives
d) Test the theory in practice by applying research methodology
e) Collect data by using different data collection methods
f) Analyse and interpret data by using different statistical techniques
g) Demonstrate a high-level research capability
h) Make recommendations regarding the researched subject
i) Make a significant and original academic contribution at the frontiers in the field of entrepreneurship.

Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

Module Code: LARM971   <u>Labour Relations Management Doctoral Thesis</u>

Module Outcomes: The student should be able to:

Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

12.6   Public Administration

Module Code: PAYM611   <u>Advanced Theories and Practice of Public Administration (Compulsory</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Analyse the state of Public Administration in South Africa
b) Analyse the different theories in the study of Public Administration

Assessment: Tests, assignments and final examination
Pre-Requisites: None
Credits: 12

Module Code: PAYM612   <u>Public Organisation Science (Elective)</u>

Module Outcomes: On completion of the module, the student should be able to:
a) Describe strategic management and operating tasks for organisation and their integration
b) Identify different options for organisation design
c) Analyse the relationship between the organisation and its environment
d) Diagnose organisational problems and recommend solutions to those problems
e) Explain the different perspectives on organisation theory

Assessment: Tests, assignments and final examinations
Pre-Requisites: None
Credits: 12

Module Code: PAYM613   Advanced Public Management (Elective)
Module Outcomes: On completion of the module, the student should be able to:
a) Understand the functions involved in Public Management
b) Understand theoretical perspectives of Public Management
c) Critically analyse the theories and function of Public management

Assessment: Tests, assignments and final examination
Pre-Requisites: None
Credits: 12

Module Code: PAYM614   Research Methodology (Compulsory
Module Outcomes: On completion of the module, the student should be able to:
a) Develop a research proposal
b) Collect and analyse data
c) Compile a research report

Assessment: Submission of a research proposal
Pre-Requisites: B Admin Degree
Credits: 12

Module Code: PAYM616   Advanced Public Human Resource Management
Module Outcomes: On completion of the module, the student should be able to:
a) Explain the scope of human resource management
b) Explain the legal framework within which the human resource function is performed
c) Differentiate between the traditional performance appraisal system and the Performance Management System
d) Identify critical issues impacting on the management of human resources like career pathing, Affirmative action, Employment Equity, Sexual Harassment and human resource diversity

Assessment: Tests, assignments and final examination
Pre-Requisites: None
Credits: 12

Module Code: PAYM618   Advanced Public Financial Administration (Compulsory
Module Outcomes: On completion of the module, the student should be able to:
Apply the methods of financial analysis
Assessment: Tests, assignments and final examination
Pre-Requisites: None
Credits: 18

Module Code: PAYM627   Public Enterprises and Economic Development
Module Outcomes: On completion of the module, the student should be able to:
a. Understand theories and types of public enterprises
b. Compare public enterprises across countries
Assessment: Tests, assignments and final examinations

Pre-Requisites: None
Credits: 12

Module Code: PAYM621   Advanced Local Government Administration
Module Outcomes: On completion of the module, the student should be able to:
a) Understand how policies and decisions are made at local government level
b) Understand the need for citizen participation in local public affairs
c) Identify problems and their possible solutions in local government administration
Assessment: Assignments and final examination
Pre-Requisites: None
Credits: 12

Module Code: PAYM671   Research Methods in Public Administration (Year Module)
Module Outcomes: On completion of the module, the student should be able to:
a) Develop a research proposal
b) Collect and analyse data;
c) Compile a research report.
Assessment: Submission of a report
Pre-Requisites: PAD III modules
Credits: 32

Module Code: PAYM811   Advanced Organisational Analysis
Module Outcomes: On completion of the module, the student should be able to:
a) Analyse the different organisation theories
b) Compare the different models of organisation design
c) Analyse the different scenarios for choice of model of organisation design
d) Critically analyse factors that inhibit organisational development
Assessment:
Pre-Requisites: None
Credits: 20

Module Code: PAYM873   Mini-Dissertation
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment:
Pre-Requisites: None
Credits: 90

Module Code: PAYM871   Full Dissertation
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 180

Module Code: PAYM971   Thesis
Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 360

12.7 Statistics - Operations Research

Module Code: STOM611   Optimisation-1
Module Outcomes: On completion of the module, the student should be able to:
a) Apply linear, parametric and integer programming to solve real-life problems.
b) Define the decision variables used in optimisation.
c) Derive the formulae used in optimisation.
d) Identify data to be used in optimisation.
e) Recommend the optimal allocation of resources.
Assessment: Continuous assessment and formal examination
Pre-Requisites: STFM312, STFM322, STOM321 and STOM322
Credits: 15

Module Code: STOM612   Network Analysis
Module Outcomes: On completion of the module, the student should be able to:
a) Apply the theory of network analysis to select optimal alternatives in decision-making situations.
b) Design a network connecting a number of locations (pipelines, rail lines, telecommunications, etc)
c) Identify data to be used in network analysis.
d) Determine the durations of projects.
e) Derive the formulae used in network analysis.
Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM312
Credits: 15

Module Code: STOM613   Reliability Theory
Module Outcomes: On completion of the module, the student should be able to:
a) Estimate the parameters of the reliability function.
b) Define the decision variables used in reliability theory.
c) Calculate the survival rates of components and systems.
d) Derive formulae of reliability functions.
e) Identify data to be used in reliability theory.
Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM322 and STFM321
Credits: 15

Module Code: STOM614   Forecasting Methods
Module Outcomes: On completion of the module, the student should be able to:
a) Forecast into the future either using time series analysis or multiple regression analysis
b) To select the right forecasting method for a given type of data and duration (i.e. short -term or long-term).
Assessment: Continuous assessment and formal examination
Pre-Requisites: STFM312 and STFM321
Credits: 15

Module Code: STOM621   Theory of Games
Module Outcomes: On completion of the module, the student should be able to:
a) Apply the theoretical game strategies to real-life situations.
b) Identify data to be used in game theory.
c) Derive the formulae used in game theory.
d) Determine the optimal decision in a decision-making situation.
e) Use dominance to reduce the size of a game problem.

Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM318
Credits: 15

Module Code: STOM622 Production Planning and Scheduling
Module Outcomes: On completion of the module, the student should be able to:
a) Allocate resources optimally using mathematical modeling
b) Derive formulae used in scheduling theory
c) Identify data to be used in production planning and scheduling
d) Schedule jobs optimally to a set of machines that have to process them
e) Develop a production schedule that will minimize the total production costs
Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM312
Credits: 15

Module Code: STOM623 Optimization-2
Module Outcomes: On completion of the module, the student should be able to:
a) Solve a large problem in terms of the solutions of smaller interrelated problems
b) Solve non-linear models involving non-linear constraints
c) Identify the shortest route in a network
d) Allocate recourses optimally using optimization technique
e) Solve an inventory control problem
Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM312
Credits: 15

Module Code: STOM624 Inventory Control
Module Outcomes: On completion of the module, the student should be able to:
a) Apply the deterministic models with static demand, periodic and continuous review models and stochastic dynamic review models to real-life situations
b) Define the decision variables to be used in inventory control.
c) Derive the formulae to be used in inventory control.
d) Estimate the parameters of the inventory models.
e) Identify data to be used in inventory models.
Assessment: Continuous assessment and formal examination
Pre-Requisites: STOM312
Credits: 15

Module Code: STOM671 Research Project
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 30

Module Code: STOM811 Optimization-1
Module Outcomes: On completion of the module, the student should be able to:
Apply some optimisation techniques.
Assessment: Continuous assessment and formal examination
Pre-Requisites: None
Credits: 15

Module Code: STOM812   <u>Network Analysis</u>

Module Outcomes: On completion of the module, the student should be able to:

Apply the theory of network analysis in terms of resource allocation to real-life situations.

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM813   <u>Reliability Theory</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Do reliability estimation, reliability prediction, and

b) Know system reliability

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM814   <u>Forecasting Methods</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Forecast into the future either using time series analysis or multiple regression analysis

b) Select the right forecasting method for a given type of data and duration (i.e. short -term or long-term).

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM821   <u>Theory of Games</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Apply the theoretical game strategies to real-life situations

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM822   <u>Production Planning and Scheduling</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Make optimal business decisions by allocating resources optimally using mathematical modelling

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM823   <u>Opmitization-1</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Apply the theory of optimisation to real-life situations

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM824   <u>Inventory Control</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Apply the deterministic models with static demand, periodic and continuous review models and stochastic dynamic review models to real-life situations

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STOM873   Mini-Dissertation
Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 30

Module Code: STOM871   Full-Dissertation
Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 120

Module Code: STOM971   Thesis
Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research.
Assessment: Submission of a research project
Pre-Requisites: None
Credits: 360

12.8   Statistics

Module Code: STFM611   Stochastic Models
Module Outcomes: On completion of the module, the student should be able to:
a) Apply the operations research or the statistical techniques to situations where customers have to be served by a single or by several service facilities.
b) Identify the probability distributions at the arrivals of customers and the service times at the service facilities.
c) Define concepts used in stochastic models.
d) Derive formulae used in stochastic models.
e) Recommend strategies to be used in processing orders.
Assessment: Continuous assessment and formal examination
Pre-Requisites: None
Credits: 15

Module Code: STFM612   Advanced Probability Theory
Module Outcomes: On completion of the module, the student should be able to:
Apply the probability theory to real-life situations
Assessment: Continuous assessment and formal examination
Pre-Requisites: None
Credits: 15

Module Code: STFM613   Multivariate Analysis
Module Outcomes: On completion of the module, the student should be able to:
a) Do multivariate discriminate analysis
b) Do factor analysis, and
c) Do multivariate ANOVA and MANCOVA

Assessment: Continuous assessment and formal examination
Pre-Requisites: STA318
Credits: 15

Module Code: STFM614   Statistical Quality Control
Module Outcomes: On completion of the module, the student should be able to:
Assess the quality of a product.
Assessment: Continuous assessment and formal examination
Pre-Requisites: None
Credits: 15

Module Code: STFM615   Decision Theory
Module Outcomes: On completion of the module, the student should be able to:
a) Evaluate the potential benefit of buying more information about the probabilities of various payoffs and spend the optimal amount of resources in this decision-making process
b) Logically and objectively incorporate all the information that they have in the decision-making process
c) Make the best decision even when a problem is complex and the result of each decision is uncertain
Assessment: Continuous assessment and formal examination
Pre-Requisites: None
Credits: 15

Module Code: STFM621   Design of Experiments and Sampling
Module Outcomes: On completion of the module, the student should be able to:
a) Design a sample survey.
b) Determine the right sample size for a sample survey, while.
c) Minimizing the cost function and
d) Optimising the allocation of sample size, n.
Assessment: Continuous assessment and formal examination
Pre-Requisites: STFM228
Credits: 15

Module Code: STFM616   Applied Regression Analysis
Module Outcomes: On completion of the module, the student should be able to:
a) Do logistic regression analysis, and
b) Do statistical inference in real-life situations
c) Fit a non-linear regression model to data
Assessment: Continuous assessment and formal examination
Pre-Requisites: STFM328
Credits: 15

Module Code: STFM671   Research Project
Module Outcomes: On completion of the module, the student should be able to:
Conduct and report on an independent research.
Assessment: Submission of a report
Pre-Requisites: None
Credits: 30

Module Code: STFM811   Stochastic Models
Module Outcomes: On completion of the module, the student should be able to:
a) Apply the operations research or the statistical techniques to situations where customers have to be served by a sing or by several service facilities.

b) Identify the probability distributions at the arrivals of customers and the service times at the service facilities.

c) Define concepts used in stochastic models.

d) Derive formulae used in stochastic models.

e) Recommend strategies to be used in processing orders.

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM812   Advanced Probability Theory

Module Outcomes: On completion of the module, the student should be able to:

Apply the probability theory to real-life situations

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM813   Multivariate Analysis

Module Outcomes: On completion of the module, the student should be able to:

a) Do multivariate ANOVA and MANCOVA

b) Do factor analysis, and

c) Do multivariate discriminant analysis

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM814   Statistical Quality Control

Module Outcomes: On completion of the module, the student should be able to:

a) Assess the quality of a product

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM821   Decision Theory

Module Outcomes: On completion of the module, the student should be able to:

a) Evaluate the potential benefit of buying more information about the probabilities of various payoffs and spend the optimal amount of resources in this decision-making process

b) Logically and objectively incorporate all the information that they have in the decision-making process

c) Make the best decision even when a problem is complex and the result of each decision is uncertain

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM822   Design of Experiments and Sampling

Module Outcomes: On completion of the module, the student should be able to:

a) Design a sample survey

b) Determine the right sample size for a sample survey, while

c) Minimize the cost function and

d) Optimize the allocation of sample size, n

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM823   <u>Applied Regression Analysis</u>

Module Outcomes: On completion of the module, the student should be able to:

a) Do logistic regression analysis, and

b) Do statistical inference in real-life situations

c) Fit a non-linear regression model to DAT

Assessment: Continuous assessment and formal examination

Pre-Requisites: None

Credits: 15

Module Code: STFM873   <u>Mini-Dissertation</u>

Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research

Assessment: Submission of a report

Pre-Requisites: None

Credits: 30

Module Code: STFM871   <u>Full-Dissertation</u>

Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research.

Assessment: Submission of a report

Pre-Requisites: None

Credits: 120

Module Code: STFM971   <u>Doctoral Thesis</u>

Module Outcomes: On completion of the module, the student should be able to conduct and report on an independent research

Assessment: Submission of a report

Pre-Requisites: None

Credits: 360