

**FACULTIES OF THE UNIVERSITY
OF PRETORIA**

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- Anaesthesiology
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- Physiology
- Forensic Medicine
- Family Medicine
- Internal Medicine
- Cardio-Thoracic Surgery
- Nuclear Medicine
- Community Health
- Paediatrics
- Neuro-surgery
- Neurology
- Obstetrics and Gynaecology
- Ophthalmology
- Otorhinolaryngology
- Orthopaedics
- Psychiatry
- Radiology
- Sports Medicine
- Urology
- Clinical Epidemiology
- Aerospace Medicine

School of Health Care Sciences

- Occupational Therapy
- Physiotherapy
- Human Nutrition
- Nursing Science
- Radiographic Sciences

School of Pathology Sciences

- Anatomical Pathology
- Chemical Pathology
- Medical Microbiology
- Human Genetics and Developmental Biology
- Haematology
- Immunology
- Medical Virology

School of Health Systems and Public Health

- Community Orientated Division
- Joint appointments with other faculties

PART II (separate publication)

School of Oral Health Sciences

- Diagnostics and Röntgenology
- Community Dentistry
- Restorative Dentistry
- Maxillo-Facial and Oral Surgery
- Oral Pathology and Oral Biology
- Orthodontics
- Periodontics and Oral Medicine
- Prosthetics and Dental Mechanics

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**FACULTY OF HEALTH SCIENCES
ACADEMIC PERSONNEL AS ON 30 JUNE 1999**

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Department of Cardiology

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Department of Chemical Pathology

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Van der Westhuizen, C.E., MBChB MMed(O et G)(Pret) LKOG(SA)	Lecturer
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Department of Occupational Therapy

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Du Plessis, A.M., NatDip(OccTher) Dip Ed Ther Voc(Pret) BA(Unisa) MOccTher(Pret).....	Lecturer
Engelbrecht, L.H., NatDip(OccTher) BOccTher(Hons) (Pret) DTI	Lecturer
Graham, M.S., NatDip(OccTher) BOccTher(Hons) MOcc Ther(Pret).....	Lecturer
Kruger, A.E., NatDip(OccTher) BOccTher(Hons) MOccTher(Pret) DTI	Lecturer

Uys, C.J.E., BOccTher M AAC(Pret) BOcc Ther(Hons) (Medunsa)	Lecturer
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Maritz, N.G.J., MBChB(Pret) MMed(Orth)(UOVS) LKC(SA)	Professor (Head)
Rankin, K.C., MBChB FRCS(Ortho)(Edin) Dip Biomec(Univ Strathclyde)	Professor
Lindeque, B.G.P., MMed(Orth) PhD(Pret) LKC(Orth)(SA) Dipl in Tumor Surgery(Univ of Florida).....	Associate Professor
Burger, E.L., MBChB(UOVS) MMed(Orth)(Pret)	Senior Lecturer
Mukenge, F.M., MMed(Ortho)(Medunsa) FCS(SA)(Ortho)	Senior Lecturer
Audley, C., MMed(Orth)(Pret)	Lecturer
Colyn, H.J.S., MMed(Orth)(Pret)	Lecturer
Erasmus, L.J., MBChB(Pret)	Lecturer
Koekemoer, D., MMed(Orth)(Pret)	Lecturer
Le Roux, B.J.M., MMed(Orth)(Pret).....	Lecturer
Moore, E., MBChB MPraxMed(Pret)	Lecturer
O'Brien, C.A., MMed(Orth)(Pret)	Lecturer
Potgieter, D., MBChB(Pret) MMed(Orth)(Medunsa)	Lecturer
Thiart, C.J., MBChB(Stell) MMed(Orth)(Pret)	Lecturer
Ackermann, C., MBChB(Pret)	Junior Lecturer
Barrett, T.N., MBChB(Pret)	Junior Lecturer
Botha, J.L., MBChB(Pret).....	Junior Lecturer
Cappaert, G.G.A., MBChB(Pret)	Junior Lecturer
Cloete, A.A.M., MBChB(Pret).....	Junior Lecturer
Coetzee, E., MBChB(Pret)	Junior Lecturer
De Lange, L.J., MBChB(Pret)	Junior Lecturer
De Villiers, L., MBChB(Pret).....	Junior Lecturer
Du Plessis, P.G., MBChB(Pret).....	Junior Lecturer
Fouché, L., MBChB(Pret)	Junior Lecturer
Frantzen, D.J.M., MBChB(Pret)	Junior Lecturer
Froeling, A.M.E.N., MBChB(Pret).....	Junior Lecturer
Jansen van Nieuwenhuizen, D.P., MBChB(Pret).....	Junior Lecturer
Kriek, G.N., MBChB(Pret) ATLS ACLS APLS	Junior Lecturer
Kruger, P.W., MBChB(Pret)	Junior Lecturer
McCready, D.A.C., MBChB(Pret)	Junior Lecturer
Mennen, E., MBChB(Pret)	Junior Lecturer
Olivier, C.J., MBChB(Pret)	Junior Lecturer
Oosthuizen, P.J., MBChB(Pret).....	Junior Lecturer
Peach, S.A., MBChB(Pret).....	Junior Lecturer
Perry, B.N., MBChB(Pret)	Junior Lecturer

Prinsloo, C.D., MBChB(Pret).....	Junior Lecturer
Revelas, A.P., MBChB(Pret).....	Junior Lecturer
Roos, W.L., MBChB(UOVS).....	Junior Lecturer
Snyckers, H.M., MBChB(Pret).....	Junior Lecturer
Troskie, A.J., MBChB(Pret).....	Junior Lecturer
Van den Berg, C.C., MBChB(Pret).....	Junior Lecturer
Van der Walt, N.H., MBChB(Pret).....	Junior Lecturer
Van der Westhuizen, F.D., MBChB(Pret).....	Junior Lecturer
Venter, J.A., MBChB(Pret).....	Junior Lecturer
Visser, J.H., MBChB(Pret).....	Junior Lecturer

Department of Otorhinolaryngology

Swart, J.G., MBChB MD(Pret) LKC(Otorh)(SA) LAKad(SA).....	Professor (Head)
Mulder, A.A.H., MPraxMed MMed(ORL)(Pret).....	Professor
Burden, E.C.M., MBChB MMed(Pret).....	Lecturer
Kock, J.H.L., MBChB(Pret).....	Junior Lecturer

Department of Paediatrics

Wittenberg, D.F., MBChB(Cape Town) MD(Natal) FCP(Paed)(SA).....	Professor (Head)
Hay, I.T., MMed(Paed) MRCP(UK) FCP(Paed)(SA)DHA(Pret)	Professor
Delport, S.D., MMed(Paed) MPharmMed PhD(Pret).....	Associate Professor
Kruger, M., MMed(Paed)(Pret) PhD(Catholic University Louvain Belgium).....	Associate Professor
Ajusi, S.F., MMed(Paed)(Nairobi).....	Senior Lecturer
Colyn, E.L., MMed(Paed)(Pret).....	Senior Lecturer
Fourie, D.T., MMed(Paed)(Pret) LAKad.....	Senior Lecturer
Malek, A.J.E., MBChB MMed(Paed)(Pret) FCPaed(SA).....	Senior Lecturer
Naudé, S.P.E., MMed(Paed)(Pret).....	Senior Lecturer
Opperman, J.C., MMed(Path) MMed(Paed) DPH(Pret) DTM&H (Witwatersrand).....	Senior Lecturer
Van Biljon, G., MMed(Paed)(Pret) FCP(SA).....	Senior Lecturer
De Witt, T.W., MMed(Paed)(Pret) DTI.....	Lecturer
Farhangpour, C., MMed(Paed) DCH.....	Lecturer
Grobler, A.C., BSc(RAU) MBChB(Stell) MMed(Paed)(Pret) FCP(SA).....	Lecturer
Kunneke, M., MMed(Paed)(Pret).....	Lecturer
Pistorius, I., MMed(Paed)(Pret).....	Lecturer
Smuts, I., BSc MMed(Paed)(Pret).....	Lecturer
Van Niekerk, A., MMed(Paed)(Pret).....	Lecturer
Van Rooyen, E., MPharmMed(Pret).....	Junior Lecturer

Department of Pharmacology

Sommers, De K., MBChB BChD MD(Pret) HDD(Witwatersrand).....	Professor (Head)
Snyman, J.R., MBChB MPharmMed MD(Pret).....	Professor
Blom, M.W., BSc(Pharm)(PU vir CHO) MBChB MPraxMed(Pret).....	Senior Lecturer
Eloff, J.N., MSc(Chemistry) MSc(PlantChem) DSc(PU vir CHO).....	Senior Lecturer
Van Wyk, M., MBChB MPharmMed(Pret).....	Senior Lecturer

Kotze, A., MBChB BSc(Hons)(Pharm) MPharmMed(Pret) Dip PNS(SA).....	Lecturer
Department of Physiology	
Van Papendorp, D.H., MBChB(Pret) BSc(Hons) MSc PhD(Med)(Stell) LAKad(SA).....	Professor (Head)
Steinmann, C.M.L., MSc(PU vir CHO) PhD(Stell) MTP THED(PU vir CHO).....	Professor
Dippenaar, N.G., MSc(Stell) MPhil(Camb) PhD(Medunsa) Dipl Med Tech(Chem Path)	Associate Professor
Kruger, M.C., MSc(PU vir CHO) PhD(Medunsa)	Associate Professor
Meij, H.S., MSc DSc(Pret).....	Associate Professor
Seegers, J.C., MSc DSc(Pret) MedW(ClinBiochem) Sci Nat	Associate Professor
Viljoen, M., MSc(Pret) PhD(Witwatersrand) National Dip(Microbiology).....	Associate Professor
Claassen, N., BSc MSc(PU vir CHO) PhD(Pret)	Senior Lecturer
Haag, M., MSc DSc(Pret) Sci Nat	Senior Lecturer
Panzer, A., MBChB MSc(Pret).....	Senior Lecturer
Coetzee, M., MSc(PU vir CHO).....	Lecturer
Lottering, M., MSc PhD(Pret).....	Lecturer
Willemse, N., MSc(RAU) PhD(Witwatersrand)	Lecturer
Department of Physiotherapy	
Van Rooijen, A.J., BSc(PhysTher) MSc(PhysTher)(UOVS) TED(PhysTher).....	Acting Head
Eksteen, C.A., BSc(PhysTher)(Stell) MEd(Unisa) PhD(Pret) DTI.....	Senior Lecturer
Eisenberg, M., BSc(Physio)(Witwatersrand)	Lecturer
Jordaan, R., BPhysT MPhysT(Pret)	Lecturer
Marais, A.M., Dip(PhysTher) MPhysT(Pret) DTI(UOVS)	Lecturer
Marais, R., BPhysT(Pret)	Lecturer
Mostert, K., BSc(PhysTher)(UOVS) MPhysT(Pret).....	Lecturer
Papadopoulos, M., MSc(Physio)(Witwatersrand)	Lecturer
Department of Psychiatry	
Bodemer, W., MBChB MMed(Psych)(Pret) MD(Medunsa) LAKad(SA)	Professor (Head)
Coetzee, A.L., BA(Hons)(Psychol) MA(Clin Psychol) MPA(Pret) DSocWet(Leyden).....	Associate Professor
Pretorius, H.W., MSc MMed(Psych) MD(Pret).....	Associate Professor
Roos, J.L., MMed(Psych) MD(Pret).....	Associate Professor
Böhmer, M., MBChB MMed(Psych)(Pret).....	Senior Lecturer
De Wet, P.H., BChD MBChB MMed(Psych)(Pret).....	Senior Lecturer
Krüger, C., MBBCh(Wits) MMed(Psych)(Pret)MD(Warwick)	Senior Lecturer
Loen, A.E., Arts Eks(Amsterdam) MMed(Psych)(Pret)	Senior Lecturer
Michael, K.S., BA(Hum Sciences) BA(Hons)(Psych) MA(Clin Psych)(Pret).....	Senior Lecturer
Page, M.L., MMed(Psych) DTM + H DPH DHA(Pret).....	Senior Lecturer
Van Rensburg, A.B.R.J., MBChB(UOVS) FC Psych(SA)	Senior Lecturer
Joubert, P.M., MBChB(Stell) MMed(Psych)(Pret).....	Lecturer
Van der Westhuizen, D., MMed(Psych) MBA(Pret)	Lecturer

Van Staden, C.W., MMed(Psych)(Pret) FTCL(London) UVLM(Unisa).....	Lecturer
Griffith, W.C., BA BA(Hons)(Psych)(PU vir CHO).....	Junior Lecturer
Labuschagne, G.N., BA(Hum Sciences) BA(Hons)(Psych) MA(Clin Psych)(Pret).....	Junior Lecturer
Petrick, F., MBChB(Pret).....	Junior Lecturer
Pretorius, G., BA BA(Hons)(Psych)(PU vir CHO).....	Junior Lecturer
Scholtz, J.H., BA(Hons) MA(Clin Psychol)(Pret) D et Phil(RAU)	Junior Lecturer
Semenya, M., BA BA(Hons)(Psych)(PU vir CHO).....	Junior Lecturer
Sirestarajah, B., MBChB(UNITRA) DMH(SA).....	Junior Lecturer

Department of Radiation Oncology

Westerink, H.H.P., MBChB MMed(Rad)(Pret).....	Acting Head
Van Rensburg, A.J., MMed Sc(Biophysics)(UOVS) Dipl Public Management PhD(Pret).....	Extraordinary Professor
Friediger, D., MMed(Rad-T)(Pret) MD(Vienna).....	Senior Lecturer
Shiels, R.A., BA(Hons)(Natal) MBChB(Cape Town) MLitt(Oxon) Cert ABR MALR LALRD.....	Lecturer

Department of Radiographic Sciences

Hugo, G.A., DipRad BRad(Hons)(Diagn)(Pret) DTI.....	Acting Head
Louw, C.J., DipRad(Diagn) DipRad(Ther)(Pret) HED(Unisa)	Senior Lecturer
Ahrens, E., BRad BRad(Hons)(Pret).....	Lecturer
Genis, L., DipRad(Diagn) BRad(Hons)(Pret).....	Lecturer
Muller, A.S., DipRad(Diagn) DipRad(Ther)(Pret) DTI.....	Lecturer
Van Eeden, Y.F., DipRad BRad(Hons)(Pret) DTI.....	Lecturer
Venter, M., DipRad(Diagn) DipRad(Ther) BProc BRad(Hons) MRad(Pret).....	Lecturer

Department of Radiology

Prinsloo, S.F., MBChB MMed(Rad-D)(Pret).....	Professor (Head)
Gelderman, G.J., MMed(Rad)(Pret).....	Senior Lecturer
Holl, J.L., MBChB(Pret) FFRad(D) SA(Witwatersrand).....	Senior Lecturer
Mentis, H., MMed(Rad-D)(Pret).....	Senior Lecturer
Van de Werke, I.E.A., MBChB DPH(Pret) DMRD FRCR(London).....	Senior Lecturer
Butters, J.B., MMed(Rad-D)(Pret).....	Lecturer
Du Plessis, P.S., MMed(Rad-D)(Pret).....	Lecturer
Small, B., MMed(Rad-T)(Pret).....	Lecturer
Davis, B., MBChB.....	Junior Lecturer
Slater, Z., MBChB(Pret).....	Junior Lecturer

Department of Surgery

Becker, J.H.R., MBChB MMed(Surg)(Pret) FCS(SA) FRCS(Glasgow) FRCS(Edin) LKC(SA).....	Professor (Head)
Ionescu, G.O., MD PhD(Paed)(Romania) FCS(SA).....	Professor
Mokoena, T.R., MBChB(Natal) FRCS(Glasgow) DPhil(Oxford)	Professor
Coetzee, P.F., MMed(PlastSurg)(Pret).....	Senior Lecturer
Karusseit, V.O.L., MMed(Surg)(Pret) LKC(SA).....	Senior Lecturer
Pretorius, J.P., MMed(Surg)(Pret).....	Senior Lecturer
Schoeman, B.J., MMed(Surg)(Pret) LKC(SA) FRCS(Edin) ..	Senior Lecturer
Coetzee, B.R., MMed(Surg)(Pret).....	Lecturer

Health Sciences I

Du Plessis, H.J.C., MMed(Surg)(Pret).....	Lecturer
Du Rand, M.C., MBBCh(Witwatersrand) GKC(SA) (Coll of Med) MMed(Pret)	Lecturer
Pieterse, A., MMed(Surg)(Pret).....	Lecturer
Joubert, J.E.H., BNurs(Hons)(Stell).....	Senior Research Officer

Division Cardio-Thoracic Surgery

Du Plessis, D.J., MBChB(Pret) MMed(Thorac Surg)(Stell)...	Professor
Brink, J.S.F., BMedSci MBChB MMed(Thorac Surg)(Pret)...	Lecturer
Sarlie, H.A., MBChB(Argentina) MMed(Thorac Surg)(Pret)...	Junior Lecturer

Division Plastic Surgery

Coetzee, P.F., MMed(Plast Surg)(Pret).....	Senior Lecturer
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Department of Urology

Reif, S., MBChB MMed(Urol)(Pret) FCS(Urol)(SA).....	Professor (Head)
Sleep, D.J., MBChB MMed(Urol)(Witwatersrand) FCS(Urol)(SA)	Professor
Kok, E.L., BA(Unisa) BA(Hons) MBChB(Pret) DTI	Senior Lecturer
Hadders, C.F., BSc(Hons) MBChB(Pret).....	Lecturer
Heyns, M.H., MBChB(Pret).....	Junior Lecturer
Lichthelm, D., MBChB(Pret).....	Junior Lecturer
Smit, P.J., MBChB(Pret).....	Junior Lecturer
Van Aswegen, C.H., BSc(Agric)(UOVS) MSc(Agric) DSc PhD(Pret).....	Senior Research Officer

AEK Institute of Life Sciences

Dormehl, I.C., MSc DSc(Pret)	Associate Professor
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College of Pharmacy

Dürrhein, H.H., MSc(Pharm) DSc(Pharm)(PU vir CHO) GAV	Extraordinary Professor
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Glaxo Institute of Clinical Pharmacology

Sommers, De K., BChD MD(Pret) HDD(Witwatersrand).....	Director
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Hans Snyckers Institute

Christianson, A.L., MBChB(Birmingham) MRCP(UK).....	Director
Van Staden, D.A., MBBCh(Witwatersrand) MPraxMed(Pret)	Deputy Director

RESEARCH INSTITUTE AND UNITS OF THE MRC

Tuberculosis Research Institute

Fourie, P.B., MSc(Pret) PhD(Witwatersrand)	Director
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Research Unit for the study of Phagocyte function

Anderson, R., BSc(Hons)(Glasgow) MSc PhD(Witwatersrand)	Director
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Skills Laboratory

Treadwell, I., MCur DCur(Pret) HED(Unisa).....	Head
Benic, M.J., MBChB(Pret).....	Lecturer (Honorary)
Lombard, J.H., MBChB MSc(Agric)(Pret).....	Lecturer (Honorary)

Saaijman, A.F., MBChB(Pret) Lecturer (Honorary)
Schmidt, S., MBChB(Pret) Lecturer (Honorary)

School of Health Systems and Public Health

Ijsselmuiden, C.B., MD(Erasmus Univ) DTM&H(Medunsa)
DPH(Witwatersrand) FFCA(SA)(Coll of Med)
MPH(Johns Hopkins Univ) Director

GENERAL INFORMATION

Admission

Any person who wishes to register at the University for the first time, or after an interruption of studies, should apply or reapply for admission.

- **Undergraduate applications**
Applications for admission to all undergraduate selection courses close on 30 June, with the exception of new first-year students for MBChB I; for BSc with specialisation in Biological Sciences or in Medical Sciences (students who chug to MBChB), which close on the last Friday in May annually, while applications for BCur (I et A) and for Medical Special (Undergraduate) close on 30 September.
- **Postgraduate applications**
The closing date is 31 January annually and prospective students must contact the Head of Department beforehand to make an appointment for an interview. The closing date for the following selections is:
BRad(Hons): 30 September.
MPhysT and MOccTher: 31 October.

Selection

Admission to all fields of study in this Faculty is subject to a selection procedure, except in the case of BCur(I et A). For some of the fields of study, or categories of a field of study, a personal interview is also required as part of the selection procedure. A pass in the UP admissions test is required in respect of all the undergraduate fields of study, except for prospective students who have already matriculated. In the case of the latter, the M-score is calculated in terms of the results of the Grade 12 final examination.

Undergraduate courses with their additional requirements:

- **MBChB and BSc with specialisation in Medical Sciences:**
The Faculty can accommodate 200 first-year MBChB students and 80 first-year students for the BSc with specialisation in Medical Sciences. Prospective students for MBChB I are evaluated according to different categories with the minimum admission requirements set accordingly.
 - (a) It is not possible for candidates to complete their first year of study at another South African university.
 - (b) A candidate who has passed a full academic year, with at least four first-year subjects at another university, will be considered for selection, but only for admission to MBChB I.
 - (c) Matriculants who apply for selection, should have passed at least a first and second language, Mathematics and Physical Science at higher grade. A minimum M-score and a pass symbol are prerequisites according to the various selection categories.
 - (d) Admission of foreign candidates is limited to three for the MBChB degree course and only students from SADC countries will be considered.
 - (e) Candidates will be notified in writing of the outcome of the selection.
 - (f) Candidates who have not been admitted to the first year of study for the MBChB degree, may apply for admission to any other degree course at this University, provided that they comply with the entrance requirements for the degree course in question; and may, on the grounds of that achievement, reapply for selection (students who change to MBChB).

- (g) Applications of students from other medical and dentistry faculties for admission (changing to this University) to the MBChB degree study will be subject to:
 - (i) an accompanying letter of acknowledgement and consent from the Dean concerned, of the faculty from which the student applies; and
 - (ii) a written motivation by the student, providing reasons for changing to the Faculty of Medicine, University of Pretoria.
 - (h) Selection of such a candidate will be done on the grounds of :
 - (i) academic merit;
 - (ii) recognition of the prerequisite courses of the university of origin by the Selection Committee, in consultation with the heads of the departments in question; and
 - (iii) availability of places in the particular year of study.
- **BPhysT degree:** In terms of the selection procedure, candidates must pass with at least a C symbol in Mathematics and Physical Science at higher grade in the final matriculation examination. A minimum M-score is required for the various categories.
 - **BCur degree:** In accordance with the selection procedure, Mathematics and/or Physical Science passed at matriculation level is a recommendation. Only candidates who can submit proof that they are registered as student nurses at an approved hospital, will be considered for admission.
 - **BRad degree:** The selection procedure requires at least a D symbol in Mathematics and Physical Science at higher grade in the final matriculation examination. A minimum M-score applies to the various categories.
 - **BOccTher degree:** The selection procedure requires at least a E symbol in Biology and/or Physical Science at higher grade (or at least a D symbol in Biology and/or Physical Science at standard grade) in the final matriculation examination. A minimum M-score requirement applies to the various categories.
 - **BDietetics degree:** The selection procedure requires at least a D symbol in Mathematics and Physical Science at higher grade in the final matriculation examination. A minimum M-score applies to the various categories.

Statement of symbols

When registering at this University for the first time, a candidate has to submit official proof of the symbols obtained for each subject in the final matriculation examination.

Medium of instruction

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

Bursaries and loans

Particulars of bursaries and loans are available on request.

Accommodation

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

Open day and orientation

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

Prescribed books

Lists of prescribed books are not available. The lecturers concerned will supply information regarding prescribed books to students when lectures commence.

Amendment of regulations and fees

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

Definition of terms

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

academic year: the academic year which is determined by the University Council and consists of two semesters

after-hours studies: classes attended after hours by students who register for the curriculum of a first degree or diploma, that is offered over a period longer than the minimum duration indicated in the regulations for the particular degree or diploma;

course code: consists of an equal number of capitals and digits, which indicate the name of the course, the year of study, the period of study and the level of the course, for example PHY 131 for Physics.

The first digit indicates the year of study in which the course is generally taken or the academic year in which it is offered for the first time, namely 1 = 100 level, 2 = 200 level, 3 = 300 level, 7 = honours level, 8 = master's level and 9 = doctoral level.

The second digit has the following meaning: 0 or 7 = year course; 1, 3 or 5 = first-semester course; 2, 4 or 6 = second-semester course; 8 = semester course offered in the first and/or second semester, and 9 = indefinite.

The third digit differentiates between courses at the same level of which the content differs, for example IGK 800 and IGK 801 (Internal Medicine 800 and Internal Medicine 801).

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

examination mark: the mark a student obtains for an examination in a course, including practical and clinical examinations where applicable.

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

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

GS: a combined mark (semester/year mark plus examination mark) of at least 40%

level of a course or level: the academic level of a course which is indicated in the course code

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

regulation for admission: also includes the regulation for selection

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

semester course: a course that extends over one semester

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

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

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

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

REGULATIONS AND CURRICULA

1. Admission to undergraduate study

1.1 General

1.1.1 To register for a first bachelor's degree at this University, a candidate must, in addition to the required matriculation exemption certificate, comply with the specific admission requirements for particular courses and fields of study as prescribed in the admission procedure and the faculty regulations of the departments.

It is expected of every new first year student who wishes to register at the University of Pretoria, to complete a language proficiency test. Based on the results of this test, the student will be enrolled in language development courses that have to be passed before the degree will be awarded. In exceptional circumstances the development courses may be substituted by other courses as approved by the Dean.

1.1.2 The following persons may also be considered for admission:

- (i) A candidate who is in possession of a certificate which the University deems equivalent to the required matriculation exemption certificate.
- (ii) A candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution.
- (iii) A candidate who passes an admissions examination, which is prescribed by the University from time to time.

Note: A conditional exemption certificate does not grant admission to bachelor's degree study. However, in certain circumstances some of the faculties do accept a certificate of conditional exemption on the basis of mature age. Candidates are advised to contact the specific faculty administration in this regard.

1.1.3 The Senate may limit the number of students allowed to register for a course, in which case the Dean concerned may, at his own discretion, select from the students who qualify for admission, those who may be admitted.

1.1.4 Subject to faculty regulations and the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to postgraduate bachelor's degree studies, if he or she is already in possession of a recognised bachelor's degree.

1.2 Requirements for specific courses

A student who has

- (a) obtained at least 50% in the grade 12 examination in Mathematics as well as in Physical Science at higher grade, will be admitted to Molecular and Cell Biology (MLB 111), and a course in the subjects Chemistry, Physics, Zoology and Entomology, Genetics, Microbiology or Botany;
- (b) obtained at least 40% in the grade 12 examination in Mathematics as well as in either Physical Science or Biology at higher grade or at least 50% at standard grade, may be admitted to a course in Medical Physics;
- (c) obtained at least 40% in the grade 12 examination in Physical Science or Biology at higher grade or at least 50% at standard grade, will be admitted to courses in Occupational Therapy and Therapeutic Media.
- (d) obtained at least 50% in the grade 12 examination in Mathematics at higher grade, may be admitted to the courses WTW 114 and WTW 134 in Mathematics.

NB:*the grade 12 examination*.... refers to the final matriculation examination

2. Registration for a particular year of study

At the beginning of an academic year, a student registers for all the courses he or she intends taking in that particular year (whether these be first-semester, second-semester or year courses).

3. Examination admission and pass requirements

A semester/year mark of at least 40% is required in order to be admitted to the examination in any course, with the exception of first-semester courses at 100 level for which the requirement is 30%. Excluding cases where faculty regulations require a higher percentage, a subminimum of 40% is required in the examination in each course. A final mark of at least 50% is required to pass in a course. The pass mark for essays is at least 50%. The stipulations of G.60.2.1.2(a) regarding requirements for dissertations apply *mutatis mutandis* to essays.

For requirements in connection with the above-mentioned, consult Reg. M.1(i)(ii), as well as the study manual of a given Block.

3.1 Subminima in examinations

Where applicable, the subminima required in examinations appear in the regulations of the degree in question and in the syllabi of the courses.

3.2 Examinations

The examinations for first-semester courses take place in May/June, while all other examinations (second-semester courses, year courses and Blocks of the MBChB degree course) take place in October/November.

Consult the study manual of a given Block for an exposition of the Faculty requirements for examinations in the new MBChB curriculum.

3.3 Ancillary examinations

After conclusion of an examination and before the examination results are published, the examiners may summon a student for an ancillary examination on particular aspects of the work of the course in question.

Details regarding the Faculty requirements for ancillary examinations in the new curriculum are published in the Study Manual of a given Block.

3.4 **Re-marking of examination papers (also consult Gen. Reg G.14)**

After an examination, departments give feedback to students on the framework that was used by the examiners during the examination. The way in which feedback is given, is determined by the departmental heads. Students may apply for re-marking of an examination paper within 14 calendar days of commencement of lectures in the next semester. A prescribed fee is payable, after which the paper will be re-marked by an examiner appointed by the Head of the Department.

3.5 **Supplementary examinations**

- (i) A student may be admitted to a supplementary examination in a course in the following instances (excepting the specific faculty requirements in respect of supplementary examinations in specific Blocks of the first to the fourth year of study for the MBChB degree (consult Reg. M.1(i)(ii)):
 - (aa) if a final mark of between 40% and 49% has been obtained;
 - (bb) if a pass mark has been obtained but not the required subminimum of 40% in the examination as a whole; or
 - (cc) if a pass mark has been obtained but not the required subminimum in subsections of the course.
- (ii) A student must obtain a minimum of 50% in the supplementary examination to pass.
- (iii) The semester or year mark is taken into account only if a student has not obtained at least 50% in the supplementary examination of a first-semester course at 100 level.
- (iv) The highest final mark that can be awarded to a student in a supplementary examination, is 50%.

3.6 **Promotion**

In certain departments, students can be promoted to the next semester or level in certain subjects, on the condition that their preparation is satisfactory and that they obtain a semester/year mark of at least 65%. (In the Department of Nursing, at least 70% is required.) Departments in question will inform students accordingly and in good time.

N.B.: Students obtain credit for a promoted course only after they have passed an examination in a consecutive course of the subject.

DEGREES AND DIPLOMAS CONFERRED IN THE FACULTY OF HEALTH SCIENCES

The following degrees and diplomas are conferred/awarded in the Faculty (minimum duration of study in brackets):

(a) **Bachelor's degrees:**

- (i) Bachelor of Medicine and Surgery – MBChB (6 years)
- (ii) Baccalaureus Scientiae with specialisation in Medical Sciences – BSc with specialisation in Medical Sciences (3 years)
- (iii) Bachelor of Nursing – BCur (4 years)
- (iv) Bachelor of Nursing (Education and Administration) – BCur (I et A) (3 years)
- (v) Bachelor of Radiography – BRad (3 years) (Fields of specialisation: Consult Reg. M.17)
- (vi) Bachelor of Occupational Therapy – BOccTher (4 years)

- (vii) Bachelor of Physiotherapy – BPhysT (4 years)
 - (viii) Bachelor of Dietetics – BDietetics (4 years)
- (b) Honours degrees:**
- (i) Bachelor of Radiography (Honours) – BRad(Hons) (1 year) [Fields of specialisation: Consult Reg. M.18(b)]
 - (ii) Bachelor of Nursing (Honours) – BCur(Hons) (1 year) [Suspended until further notice]
 - (iii) Bachelor of Occupational Therapy (Honours) – BOccTher(Hons) (2 years) [Suspended until further notice]
 - (iv) Baccalaureus Scientiae Honores – BSc(Hons) (1 year full-time; 2 years part-time) [Fields of specialisation: Consult Reg. M.8]
 - (v) Bachelor of Dietetics (Honours) – BDietetics(Hons) (1 year full-time, or a maximum of 5 semesters part-time)
- (c) Master's degrees:**
- (i) Master of Medicine – MMed (4 to 5 years) (The field of specialisation is indicated in brackets – consult Reg. M.3).
 - (ii) Specific master's degrees:
 - (aa) Master of Medicine with specialisation in Family Medicine – MMed with specialisation in Family Medicine (4 years)
 - (bb) Master of Medical Pharmacology – MPharmMed (3 years)
 - (cc) Master of Military Medicine – MMilMed (3 years)
 - (dd) Master of Public Health – MPH (2 years)
 - (iii) Magister Scientiae – MSc (1 year) (Fields of specialisation: consult Reg. M.9)
 - (iv) Master of Nursing – MCur (1 year) [Fields of specialisation: consult Reg. M.15]
 - (v) Master of Radiography – MRad (1 year) [Fields of specialisation: consult Reg. M.19]
 - (vi) Master of Occupational Therapy – MOccTher (1 year) [Fields of specialisation: consult Reg. M.22]
 - (vii) Master of Physiotherapy – MPhysT (2 years) [Fields of specialisation: consult Reg. M.26]
 - (viii) Master of Dietetics – MDietetics (1 year)
- (d) Doctorates:**
- (i) Philosophiae Doctor – PhD (1 year) [Fields of specialisation: consult Reg. M.11]
 - (ii) Doctor of Medicine – MD (1 year) [Fields of specialisation: consult Reg. M.10]
 - (iii) Doctor of Nursing – DCur (1 year)
 - (iv) Doctor of Occupational Therapy – DOccTher (1 year)
 - (v) Doctor Scientiae specialising in Dietetics – DSc specialising in Dietetics – Awarded by virtue of publications
- (e) Diplomas:**
- (i) Postgraduate Diploma in Tropical Medicine and Health – DTMH (1 year)
 - (ii) Postgraduate Diploma in Public Health – DPH (2 years)
 - (iii) Postgraduate Diploma in Health Systems Management – DHSM (2 years)
 - (iv) Postgraduate Diploma in Occupational Medicine and Health – DOMH (2 years)
 - (v) Postgraduate Diploma in Family Medicine – (1 year)
 - (vi) Postgraduate Diploma in Vocational Rehabilitation – DVR(1 year)
 - (vii) Postgraduate Diploma in Interpersonal Communication and Group Techniques in Occupational Therapy – DCG (1 year)
 - (viii) Postgraduate Diploma in Dietetics – (1 year) – [Suspended until further notice]

Students who take a course offered by another faculty, must familiarise themselves with the admission requirements for the course in question, prerequisites for courses as well as subminima in examinations, supplementary examinations, etc

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

I. DEGREES IN MEDICINE

M.1 BACHELOR OF MEDICINE AND SURGERY (MBChB) (Code 10130001)

Also consult General Regulations.

N.B.

1. A matriculation exemption certificate is required, with Mathematics, Physical Science, First and Second Language at Higher Grade, with minimum pass requirements in these subjects as required by the different categories of the Selection Procedure.
2. A selection of candidates takes place (consult General Information).
3. Each student in Medicine must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Medicine, immediately after admission to the first year of study.
4. After obtaining the degree, a student must register with the Health Professions Council of South Africa as an intern, and complete at least one year of training at an institution approved by the above-mentioned Council for this purpose. After this, he or she must register at the Council as a medical practitioner and complete one year of community service before they may work in private practise.

(a) Duration

Six years of full-time study.

(b) Provisions regarding promotion courses

The stipulations of General Regulation G.10.1 concerning satisfactory preparation and progress also apply to courses where a promotion test is required. Supplementary examination marks and pass marks in promotion courses are awarded according to the stipulations of General Reg. G.12 – with the proviso that:

- (i) promotion is based on class tests throughout the year and a minimum of 50% is required to be promoted;
- (ii) students repeating a year of study retain credit for examination courses passed, unless determined otherwise, but that they acquire a certificate of satisfactory preparation and progress in all the promotion courses, i.e. a minimum of 50% in the year work;
- (iii) a student who has obtained a year mark of less than 50% be admitted by the Examination Commission to a supplementary promotion test at the beginning of the following semester.

(c) Selected first-year students who fail first-year courses

- (i) Selected first-year students, who have passed in sufficient prescribes first-semester courses at 100 level will, in accordance with the stipulations of

General Regulation G.3, automatically be admitted to the second semester of the first year of study. During the second semester, the students will be admitted to an examination on an anti-semester basis in the first-semester courses still outstanding, if this can be accommodated in the timetable. In this Faculty, a student may not repeat semester courses that comprise more than 8 lectures per week on an antise-semester basis in the second semester.

- (ii) A student who has failed one or more of the prescribed first-year courses and who will consequently not be admitted to the second year of study, forfeits his or her selection and must apply again for selection for the first year of study.
 - (iii) A student who has forfeited his or her selection may continue with a BSc degree with subjects in the biological sciences, but success in these courses will not necessarily guarantee selection, with resultant readmission to the Faculty of Medicine.
- (d) Students who fail some blocks of a year of study in the new curriculum (and thus the year of study in question)**
- (i) Students must pass all the blocks of a year of study in order to be admitted to the next year of study.
 - (ii) Students who repeat a year of study, must register for all the blocks of the year of study in question, with the exception of the special activities blocks, which need not be repeated if passed already.
 - (iii) All failed blocks (including special activities blocks) must be repeated in full and passed in order to obtain credit for the blocks in question. Full class fees are payable in this case.
 - (iv) A satisfactory attendance mark (i.e. a block mark of at least 50%) must be obtained in the blocks already passed in the previous year (with the exception of the special activities blocks). Reduced class fees in terms of University policy will be payable for these blocks. If a student does not obtain the required block mark of at least 50%, the student will again be required to pass an examination in the block in question.
- (e) Transitional measures for MBChB IV (Old curriculum: Year 1999/2000)**
- (i) Students who pass the fourth year of study in 1999, continue with the fifth year of study in 2000, according to the old curriculum.
 - (ii) Students who fail entirely (all three major subjects and more than five promotion courses), cannot repeat the fourth year of study in 2000 according to the old curriculum, and will be required to change to the third year of study of the new curriculum in 2000.
 - (iii) Students who fail two major subjects or a maximum of five promotion courses, may be admitted to a supplementary examination in January 2000. If the supplementary examination is passed, the student may continue with the fifth year of study of the old curriculum in 2000.
 - (iv) If a student fails more than one major subject in the supplementary examination, he or she fails the year of study and will be required to change to MBChB III (new curriculum) in 2000.
 - (v) If only one major subject is failed in the supplementary examination, the student may be admitted to a special examination in June 2000, while continuing **provisionally** with the fifth year of study according to the old curriculum, or the student may alternatively change directly to the third year of study according to the new curriculum.
 - (vi) Should a student choose to continue provisionally with MBChB V, and pass the special examination in June 2000, he or she may continue with the fifth

year of study according to the old curriculum. If not, the provisional admission to the fifth year of study (old curriculum) will be suspended. Such a student will then be required to change to the **third year of study** in 2001, according to the new curriculum.

- (vii) A student who fails the supplementary examination in the promotion courses, will be admitted to a special examination in those courses in June 2000, but such a student shall be allowed to continue with the fifth year of study in 2000 according to the old curriculum.
- (viii) Should the student also fail the special examination in the promotion courses in June 2000, he or she may be admitted to yet another examination in the courses in question, at the end of 2000.
- (ix) However, it may happen that a student who fails the special examination in the re-promotion courses in June 2000, will be refused admission to the examination at the end of 2000 in the homonymous examination courses of the fifth year of study according to the old curriculum.
- (f) Transitional measures for MBChB V (Old curriculum: Year 2000/2001)**
- (i) Students who pass the fifth year of study in 2000, may continue with the sixth year of study according to the old curriculum in 2001.
- (ii) Students who fail entirely, may not repeat the fifth year of study according to the old curriculum in 2001, and will be required to change to the third year of study according to the new curriculum.
- (iii) A student who fails up to four examination courses may be admitted to supplementary examinations in January 2000. If he or she passes these supplementary examinations, the student may continue with the sixth year of study in 2001.
- (iv) If the student fails, he or she forfeits admission to study and will be required to start with the **third year of study** according to the new curriculum in 2001. Alternatively, he or she may change directly to MBChB III.
- (v) **Special transitional measures:**
- (aa) **Students who fail the following subjects in 2000, must start with MBChB III (new curriculum) in 2001:**
Internal Medicine
Surgery
Obstetrics and Gynaecology
Paediatrics
- (bb) **Students who fail the following subjects in 2000, must change to MBChB IV (new curriculum) in 2001:**
Ophthalmology
Otorhinolaryngology
- (cc) **Students who fail the following subjects in 2000, must change to MBChB V according to the new curriculum in 2001**
Family Medicine
Anaesthesiology
Psychiatry
- (g) First year of study**
- (i) **Curriculum**
Explanation of codes
- According to the rules of this Faculty, courses with an (*) asterisk, must be passed beforehand or taken and passed in the same semester as the courses in the first column.

- A course in the second column without any symbols, must be passed before the course in the first column may be taken.
- Subject to the stipulations of Reg. M.1(c)(i) regarding sufficient first-year courses passed, the symbol GS following a course code in the second column, means that a joint mark of at least 40% must be achieved in the course in question, prior to admission to the course mentioned in the first column.

NB: As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

First Semester

Examination courses

			Prerequisites
(1)	CMY 151	First course in Chemistry 151	See Par 1.2
(2)	FIL 182	Science and World Views 182	
(3)	MGW 111	Human Behaviour Science 111	
(4)	MLB 111	Molecular and Cell Biology 111	See Par 1.2
(5)	PHY 131	General Physics 131	See Par 1.2
(6)	MTL 180	Medical Terminology 180	

Second Semester

Attendance courses

(7)	GNK 121	Orientation 121	BOK 120*,GNK 126*
(8)	GNK 122	Computer Orientation 122	BOK 120*,GNK 126*

Examination courses

(9)	BOK 120	Molecule to Organism 120	CMY 151 GS PHY 131 GS MLB 111 GS MTL 180 GS GNK 121*, GNK 122* GNK 126*
(10)	GNK 126	Knowledge acquisition and processing 126	GNK 121*, GNK 122* BOK 120*, MGW 111, FIL 182

(ii) Ancillary Block examinations and supplementary examinations

Consult Reg. M.1(i)(ii).

(iii) Failed candidates/Admission to MBChB II

1. A student is required to pass all the subjects of MBChB I for admission to MBChB II.
2. Students who follow the maximum number of first-semester courses allowed on an anti-semester basis in the second semester, must pass a second examination in the courses concerned prior to commencement of the second year of study. Should a student pass in these courses, the fact that the courses were failed in the first semester, will not affect admission to MBChB II. This concession will only be valid if:
 - (i) an anti-semester course is presented in the subject in question;

- (ii) the student qualifies for the anti-semester course according to the rules of the department in question;
 - (iii) a maximum of the equivalent of 22 credits are followed on an anti-semester basis; and
 - (iv) the anti-semester course(s) can fit in with other lectures, discussion groups, class tests, examinations or any other activity of the second semester of MBChB I.
- 3. A student who fails first-semester courses of MBChB I equivalent to more than 8 lectures per week, fails the semester and will not be admitted to the second semester of MBChB I.
 - 4. The second-semester courses of MBChB I are not presented on an anti-semester basis.
 - 5. ALL students who fail the first year of study for the MBChB degree, forfeit their selection and will be required to apply, in writing, for readmission to the MBChB degree course.
 - 6. Also consult Reg.M.1(c) and (d) regarding selected first-year students who fail in first-year courses, as well as students who fail certain blocks in a year and therefore fail the year of study in the new curriculum.

(h) Admission to the second year of study

A student must pass all the courses of the first year of study for admission to the second year of study.

(i) Second year of study

(i) Curriculum

First semester

Examination courses

- (1) BOK 280 Homeostases 280
- (2) GNK 285 Blood 285
- (3) GNK 288 Anatomy (Dissection) 288
- (4) BOK 282 Man and his Environment 282

Second semester

Examination courses

- (5) BOK 281 Pathological Conditions 285
- (6) BOK 284 Infectious Diseases 284
- (7) GNK 286 Basic Emergency Care 286
- (8) GNK 283 Introduction to Clinical Medicine 283

(ii) Block examinations and Supplementary examinations

Students are informed by means of the study guide of a particular Block, of the minimum requirements for acquiring the Block mark for the Block in question; the Block examination with which a particular Block is concluded at the end of the year, and the relation (50:50) which is used in the calculation of the final Block mark.

If 60% or more is obtained in a particular Block, the mark will be validated as the examination mark at the end of the year, and the student will be exempted from the Block examination in question, and will therefore be exempted from the examination.

A student who obtains 40% – 49% as the calculated final Block mark, will be admitted to a Block supplementary examination in November/December of the same year or in January of the following year. A minimum of 50% is required to pass in a supplementary examination. The supplementary examination also serves as the aegrotat or special examination for students who were unable to write the Block examination due to illness or other acceptable reasons.

(iii) **Failed candidate**

A student who has failed MBChB II, will again be subjected to selection with a view to readmission to the second year of study. Consult also Reg. M. 1(d) regarding students who fail certain blocks in a year, and therefore the year of study in the new curriculum.

(j) **Admission to the third year of study**

A student must pass all the courses of the second year of study for admission to the third year of study.

(k) **Third year of study**

(i) **Curriculum**

First semester

Examination Courses

(1)	GNK 381	Heart and Blood Vessels 381
(2)	GNK 383	Lungs and Chest 383
(3)	BOK 380	Abdomen and Mamma 380
(4)	GNK 386	Haematological Neoplasmas

Second semester

(5)	BOK 382	Pregnancy and Neonatology 382
(6)	GNK 385	Preceptorship 385

(ii) **Block examinations and supplementary examinations**

Consult Reg. M.1.(i)(ii).

(iii) **Failed candidate**

A student who fails any given Block (i.e. examination courses), fails and will be required to repeat the third year of study.

A satisfactory attendance mark must be obtained in the Blocks passed in the previous year.

(l) **Admission to the fourth year of study:**

A student must pass all the courses of the third year of study for admission to the fourth year of study. Consult also Reg.M.1(d) regarding students who fail certain blocks in a year, and therefore the year of study in the new curriculum.

Students who fail the fourth year of study (old curriculum) in 1999, should consult the transitional measures in Reg.M.1(e) regarding registration for 2000.

(m) **Fourth year of study**

(i) **Curriculum**

First semester

Examination courses

(1)	BOK 480	Genital and Urinary Tract Diseases 480
(2)	BOK 482	Nervous Tissue 482
(3)	GNK 481	Childhood Conditions 481

Second semester

Examination courses

(4)	GNK 483	Movement Apparatus 483
(5)	GNK 484	Endocrine 484
(6)	GNK 485	Head and Neck 485
(7)	GNK 486	Ageing 486
(8)	GNK 487	Skin 487

Attendance course

(9)	GNK 488	Elective
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(ii) **Block examinations and Supplementary examinations**

As set out in Reg.M.1(i) (ii).

(n) **Admission to the fifth year of study:**

A student must pass all the courses of the fourth year of study for admission to the fifth year of study. Students who fail the fifth year of study (old curriculum) in 2000, should consult the transitional measures in Reg.M1(f) regarding registration for 2001.

(o) **Fifth year of study**

(i) **Curriculum**

Examination courses

			Prerequisites
(1)	HAK 500	Family Medicine 500	HAK 400
(2)	OHK 500	Ophthalmology 500	
(3)	ONK 500	Otorhinolaryngology 500	ONK 400
(4)	IGK 500	Internal Medicine 500	IGK 400
(5)	CHR 500	Surgery 500	CHR 400
(6)	OEG 500	Obstetrics and Gynaecology 500	OEG 400
(7)	KGE 500	Paediatrics 500	KGE 400
(8)	PSI 500	Psychiatry 500	PSI 400
(9)	ANE 500	Anaesthesiology 500	

NB: All the courses of the fifth year of study must be taken simultaneously at the first attempt (i.e. not independently of each other), as the content of the courses complements each other mutually.

(ii) **Supplementary examinations**

Supplementary examinations held at the commencement of the first semester of the following year, may be granted in four of the examination courses. Consult Reg. M.1(f) regarding the transitional measures for students who fail the fifth year of study in 2000 (this includes supplementary examinations failed at the commencement of 2001).

(iii) **Admission to the examination**

- Students who do not comply with the requirements in respect of both academic achievement and clinical work (including attendance) during the course of the year, will not be admitted to the examination in the course in question at the end of the year.
- A list of the names of students who are not admitted to the examination, will be signed by the Head of Department or his representative and displayed on the departmental notice board prior to the commencement of the examination period.

- (c) Students who do not participate in the final examinations, fail the year of study and will be required to register for MBChB III, or IV or V in 2001, in terms of the transitional measures as set out in Reg. M.1(f).
- (iv) **Subminima**
A subminimum of 40% is required in the examination in each course.
- (v) **Year mark and examination mark**
In the calculation of the final mark, the year mark weighs 40% and the examination mark 60%. This calculation is only applicable to the fifth and sixth year of study. A final mark of at least 50% is required to pass in a subject.
- (p) **Admission to the student internship year (MBChB VI):**
- (i) A student must pass all the courses of the fifth year of study for admission to the student internship year.
- (ii) The Faculty Board will determine the commencement and duration of the clinical instruction.
- (q) **Student Internship**
- | (i) Curriculum (pure clinical instruction) | Prerequisites |
|---|---------------|
| (1) IGK 600 Internal Medicine 600 | IGK 500 |
| (2) CHR 600 Surgery 600 | CHR 500 |
| (3) OEG 600 Obstetrics and Gynaecology 600 | OEG 500 |
| (4) KGE 600 Paediatrics 600 | KGE 500 |
| (5) PSI 600 Psychiatry 600 | PSI 500 |
| (6) GEG 610 Medical Ethics and Rules of Conduct 610 | |
- NB:** All the courses of the internship year (MBChB VI) must be taken simultaneously at the first attempt (i.e. not independently from each other), as the content of the courses complements each other mutually.
- (ii) A clinical examination will take place after completion of the student internship during the year, with a further clinical examination at the end of the second semester in each of the five departments. If this examination is failed, a further student internship must be completed in the course in question, before admission to a further clinical examination in the course will be granted. Credit is retained for, and exemption granted from the examination in courses in which at least 60% has been obtained.
- (iii) **Special examination**
A student who fails some of the courses of the student internship year, may be admitted to a special examination in those courses directly after conclusion of the particular block in the subsequent year.
- (iv) **Admission to the examination**
- (a) Students who do not comply with the requirements in respect of both academic achievement and clinical work (including attendance) during the course of the year, will not be admitted to the examination in the course in question at the end of the year.
- (b) A list of the names of students who are not admitted to the examination, will be signed by the Head of Department or his

- representative and displayed on the departmental notice board prior to the commencement of the examination period.
- (c) Students who do not participate in the final examinations, fail the year of study and must repeat the subject(s) in the subsequent year.
- (v) **Subminima**
A subminimum of 40% is required in the examination in each course.
- (vi) **Year mark and examination mark**
In the calculation of the final mark, the year mark weighs 40% and the examination mark 60%. This calculation is only applicable to the fifth and sixth year of study. A final mark of at least 50% is required to pass in a subject.
- (vii) **Clinical cases: MBChB VI – Block examinations**
Students must pass the clinical evaluation component of the examination independently from the final average mark in order to pass in the subject in question.
- (r) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the final-year courses.

M.2 BACCALAUREUS SCIENTIAE WITH SPECIALISATION IN MEDICAL SCIENCES (BSc with specialisation in Medical Sciences)

NB:

- (1) The selection procedure is the same as for MBChB I.
- (2) The Physiology modules of the second semester of the third year of study are chosen in conjunction with the Head of Department.

Anatomy and Integrated Physiology (Code 10133011)

- (a) **Duration**
Three years of full-time study.
- (b) **Compilation of the curriculum**
A student must obtain at least 225 course credits to comply with the requirements for the BSc degree. At least 56 credits must be completed at 300 level. A maximum of 96 credits will be recognised at 100 level. A student may, in consultation with the Dean, present courses other than those mentioned below, to the equivalent of a maximum of 22 course credits. Major subjects must comprise a minimum of 48 course credits in the second year and 28 credits in the third year.
- (c) **Curriculum**
The study programme comprises Anatomy and Integrated Physiology. Subjects not prescribed for the study programme may, after consultation with the Head of the Department in question, be submitted to the Dean for approval.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

First year of study

First semester		Credits	Prerequisites
CMY 112	First course in Chemistry 112	(11)	See Par 1.2
PHY 131	General Physics 131	(11)	See Par 1.2
MLB 111	Molecular and Cell Biology 111	(11)	See Par 1.2
WTW 134	Mathematics 134	(10)	See Par 1.2
FIL 182	Science and World Views 182	<u>(8)</u>	
		51	

Second semester		Credits	Prerequisites
CMY 122	General Chemistry 122	(11)	CMY 112 GS*
GTS 122	Introductory Genetics 122	(11)	MLB 111 GS
ANA 121	Introductory Anatomy and Embryology 121	(3)	MLB 111 GS;
ANA 122	Human Osteology 122	(3)	
ANA 125	Human Biology 125	(3)	
ANA 126	Basic Human Histology 126	(3)	MLB 111 GS; CMY 112 GS*
A second-semester (120 level) optional course		<u>(11)</u>	
		45	

Second year of study

First semester		Credits	Prerequisites
ANA 217	Human Anatomy 217	(14)	ANA 121,122
ANA 214	Human Cell and Developmental Biology 214	(12)	ANA 121,126
FLG 211	Introductory and Neuro-Physiology 211	(6)	MLB 111 GS; CMY 112 GS, CMY 122 GS, PHY 181/131 GS FLG 212 GS
FLG 212	Circulatory Physiology 212	(6)	As for FLG 211; FLG 211*
BCM 216	Proteins and Enzymes 216	(6)	MLB 111 GS; CMY 112 GS, 122 GS
BCM 217	Carbohydrate Metabolism 217	<u>(6)</u>	MLB 111 GS; CMY 112 GS, 122 GS
		50	
Second semester			
ANA 227	Human Anatomy 227	(14)	ANA 217 GS
ANA 225	Paleo-Anthropology 225	(6)	ANA 122, 125
ANA 226	Human Histology 226	(6)	ANA 126

FLG 221	Lung and Renal Physiology , Acid-base Balance and Temperature 221	(6)	FLG 211 GS, 212 GS, 222*
FLG 222	Digestion, Endocrinology and Reproductive Systems 222	(6)	FLG 211 GS, 212 GS, 221*
BCM 226	Lipid and Nitrogen Metabolism 226	(6)	BCM 217 GS
BCM 227	Biosynthesis of Macro Molecules 227	<u>(6)</u> 50	BCM 217 GS
Third year of study			
First semester			
ANA 315	Forensic Anthropology 315	(6)	ANA 122,125, 225
ANA 316	Histological Techniques 316	(6)	ANA 226
ANA 318	Applied Research Techniques 318 (compulsory)	(2)	ANA 315*, 316*,ANA 225 or 226
FLG 311	Applied Cellular Physiology 311	(5)	ANA 315 GS* 316* ANA 225 or 226
FLG 312	Developmental Physiology 312	(4)	As for FLG 311*,FLG 311
FLG 313	Research Methodology and Literature Studies 313	<u>(5)</u> 28	As for FLG 311, 311*
Second semester			
ANA 324	Human Cell and Developmental Biology 324	(8)	ANA 214, 226
ANA 327	Comparative Anatomy 327	(4)	ANA 121, 122 217, 227
ANA 328	Applied Research Techniques 328 (compulsory)	(2)	ANA 315 GS, 316 GS, 324 * or ANA 327*
FLG 321	Immunology 321	(2)	FLG 221 GS, 222 GS, 311GS, 312 GS, 313 GS BCM 216 GS, 217 GS, 226 GS, 227 GS
FLG 322	Industrial Physiology 322	(3)	As for FLG 321
FLG 323	Physiological Control Systems and Modelling 323	(3)	As for FLG 321
FLG 324	Exercise Physiology 324	(4)	As for FLG 321
FLG 325	Nutrition Physiology 325	(2)	As for FLG 321

The following module is compulsory and replaces according to choice and in conjunction with the Head of Department, some of the above-mentioned modules:

FLG 326	Research Project 326	$\frac{(5)}{28}$	As for FLG 321
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The following module may replace some of modules FLG 321, 322, 323, 324 and 325, but only with the approval of the Head of department:

FLG 327	Higher Neurological Functions 327	(5)	As for FLG 321
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Courses with an asterisk (*) must be passed beforehand or taken simultaneously.

(d) Supplementary examination

Supplementary examinations in all first-year courses as well as in courses in Anatomy, will be granted to students who comply with the stipulations of the General Regulations in this regard. In the other courses, ancillary examinations will be granted.

(e) Ancillary examinations

After the conclusion of an examination but before the publication of the examination results, examiners may summon a student for an ancillary examination on specific aspects of the work in a course.

(f) Failed candidate

Students who fail a year of study and who do not progress satisfactorily, will again be subjected to a selection procedure with a view to readmission.

(g) Admission to a subsequent year of study

A student must pass all the courses of a year of study for admission to the subsequent year of study for this degree course.

(h) Degree with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the courses of the final year of study.

M.3 MASTER OF MEDICINE (MMed)

Regulations and Curricula

N.B.:

- (i) All MMed students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily.
- (ii) All MMed students must submit an essay (MMS 800) which must be assessed as satisfactory by an external examiner, or a publication which has been accepted for publishing in a subsidised periodical. A synoptic article will not be accepted.

The MMed degree is conferred in the following fields:

- (i) Anaesthesiology. MMed(Anaes)
- (ii) Surgery. MMed(Sur)
- (iii) Dermatology. MMed(Derm)
- (iv) Physical Medicine. MMed(MedPhys)
– **discontinued until further notice**
- (v) Community Health. MMed(CommHealth)
- (vi) Forensic Medicine. MMed(MedForens)
- (vii) Geriatrics. MMed(Geriat)
- (viii) Internal Medicine. MMed(Int)
- (ix) Nuclear Medicine. MMed(Nucl Med)
- (x) Paediatrics. MMed(Paed)
- (xi) Neuro-Surgery. MMed(NeurSur)
- (xii) Neurology. MMed(Neur)
- (xiii) Obstetrics and Gynaecology. MMed(O et G)
- (xiv) Ophthalmology. MMed(Ophth)
- (xv) Otorhinolaryngology. MMed(ORL)
- (xvi) Orthopaedics. MMed(Orth)
- (xvii) Pathology. MMed(Path)
- (xviii) Plastic Surgery. MMed(Plast Sur)
- (xix) Psychiatry. MMed(Psych)
- (xx) Radiological Diagnostics. MMed(Rad-D)
- (xxi) Radiation Oncology. MMed(Rad-Onc)
- (xxii) Thoracic Surgery. MMed(Thorac Sur)
- (xxiii) Urology. MMed(Urol)

(a) Requirements for admission

A candidate for admission to the study for the MMed degree must be in possession of the MBChB degree of this University, or a qualification deemed by the University to be equivalent to the MBChB degree, for at least two years. In addition, he or she must be registered as a medical practitioner with the Health Professions Council of South Africa for at least one year.

(b) Duration

- (i) The training for the degree extends over four or five years, according to the requirements of the department under which the chosen major subject falls.
- (ii) "Major subject" refers to the recognised field of study in Medicine in which the student specialises. The study of the major subject extends over four or five years, as prescribed by the department in question.

(c) Each student must prove to the University that he or she

- (i) has successfully filled the required full-time training post for a period of four or five years according to the requirements of the department in question at the Pretoria Academic Hospital or Kalafong Hospital or at an institution recognised by the University;
- (ii) has completed the theoretical, practical, clinical and applicable training as stipulated in Reg. M.3 (b) above; and
- (iii) has passed the prescribed written, oral, practical and/or clinical University examinations.

(d) Exemption

- (i) The Faculty Board may grant partial exemption from the training and work mentioned under par. (b) and (c)(i) above on the grounds of comparable training and experience completed in another post or at another recognised institution – with the proviso that exemption of a maximum period of 18 months may be granted with regard to four-year and five-year courses.
- (ii) Exemption from a maximum of 3 years may be granted by the Department of Medical Oncology for the MMed(Int) degree specialising in Oncochemotherapy on the grounds of satisfactory experience for the MMed(Int) or MMed(Paed) degree of this University, or experience recognised by the University as equivalent.
- (iii) All prerequisite subjects, indicated with an asterisk (*), must be passed within 24 months after commencement of the course.
- (iv) Exemption from a maximum of two years clinical training may be granted in the Department of Forensic Medicine in respect of the MMed (MedForens) degree, to a candidate already in possession of a MMed degree (or a degree deemed equivalent by the University) with specialisation in Anatomical Pathology.

(e) Curricula

The curriculum consists of a major subject and its prerequisites:

- (i) **Anaesthesiology (Code 10250011)**
Major subject: ANE 801 Anaesthesiology 801.
Prerequisites: FSG 801 Physiology 801*; CHP 805 Chemical Pathology 805*; FAR 802 Pharmacology 802*; FSK 808 Physics 808*.
Duration of training: Four years.
- (ii) **Surgery (Code 10250021)**
Major subject: CHR 800 Surgery 800
Prerequisites: ANA 802 Anatomy 802*; FSG 801 Physiology 801*; ANP 802 Anatomical Pathology 802*; BVC 800 Principles of Surgery 800 (Neuro-Surgery, Orthopaedics, Plastic Surgery, Thoracic Surgery, Urology).
Duration of training: Five years.
- (iii) **Dermatology (Code 10250031)**
Major subject: DER 800 Dermatology 800.
Prerequisites: PAT 804 Pathology 804 (Anatomical, Microbiological, simultaneously with the major subject); ANA 807 Anatomy 807*; FSG 801 Physiology 801*.
Duration of training: Four years.
- (iv) **Physical Medicine (Code 10250081)**
Discontinued until further notice.
- (v) **Community Health (Code 10250371)**
Major subject: GGS 800 Community Health 800.
Prerequisites: ONO 800 Communicable and non-communicable health-related conditions 800*. ASW 800 Administrative theory and health-related social sciences 800*; EBD 800 Epidemiological theory, biostatistics and demography 800*.
A student must also submit and pass a dissertation on an approved topic (GGS 890) before the degree will be conferred.

Duration of training: Four years.

(vi) **Forensic Medicine (Code 10250071)**

Major subject: GGK 800 Forensic Medicine 800.

Prerequisites: ANP 874 Anatomical Pathology 874; FSG 801 Physiology 801*;
FAR 803 Pharmacology 803*.

Duration of training: Four years.

(vii) **Geriatrics (Code 10250041)**

Major subject: GER 800 Geriatrics 800.

Prerequisites: PAT 806 Pathology 806 (Chemical, Anatomical, Microbiological);
ANA 893 Anatomy 893*; FSG 801 Physiology 801*; FAR 804 Pharmacology
804.

Duration of training: Four years.

(viii) **Internal Medicine (Code 10250051)**

Major subject: IGK 800 Internal Medicine 800.

Prerequisites: ANA 800 Anatomy 800*; FSG 801 Physiology 801*

Attendance courses: (simultaneously with the major subject); FAR 806
Pharmacology 806.

PAT 808 Pathology 808 (Anatomical, Chemical, Haematological, Micro-
biological).

A certificate issued by the Head of Department as acceptable proof that the
student is well qualified in research methodology must be submitted before the
degree is conferred.

Duration of training: Four years.

(ix) **Nuclear Medicine (Code 10250381)**

Major subject: KDE 801 Nuclear Medicine 801.

Prerequisites: FSG 801 Physiology 801*; MFK 802 Medical Physics 802*;
PAT 801 Pathology 801* (Chemical and Haematological)

Duration of training: Four years (of which at least 6 months in Internal Medicine
and 6 months in Radiological Diagnostics). If a student specialises in Nuclear
Medicine after having obtained the MMed degree with specialisation in
Radiological Diagnostics, Radiation Oncology or Internal Medicine, the duration
will be three years.

(x) **Paediatrics (Code 10250121)**

Major subject: KGE 800 Paediatrics 800.

Prerequisites: ANA 805 Anatomy 805*; FSG 801 Physiology 801*; PAT 802
Pathology 802* (Chemical Pathology, Anatomical Pathology, Microbiology).

Duration of training: Four years.

(xi) **Neuro-Surgery (Code 10250191)**

Major subject: NCR 800 Neuro-Surgery 800.

Prerequisites: ANA 894 Anatomy 894*; FSG 801 Physiology 801*; ANP 875
Anatomical Pathology 875*; BVC 801 Principles of Surgery 801* (Surgery,
Urology, Neuro-Surgery, Orthopaedics, Plastic Surgery, Thoracic Surgery).

Duration of training: Five years.

(xii) **Neurology (Code 10250091)**

Major subject: NRE 800 Neurology 800.

Prerequisites: PAT 805 Pathology 805* (Anatomical, Chemical, Microbiological); ANA 891 Anatomy 891*; FSG 801 Physiology 801*.

Duration of training: Four years.

(xiii) **Obstetrics and Gynaecology (Code 10250101)**

Major subject: OEG 800 Obstetrics and Gynaecology 800.

Prerequisites: ANP 803 Anatomical Pathology 803*; ANA 803 Anatomy 803*; FSG 801 Physiology 801*.

Duration of training: Four years.

(xiv) **Ophthalmology (Code 10250111)**

Major subject: OHK 800 Ophthalmology 800.

Prerequisites: ANP 871 Anatomical Pathology 871*; ANA 876 Anatomy 876*; FSG 801 Physiology 801*; GMO 800 Geometrical Optics 800*.

Duration of training: Four years.

(xv) **Otorhinolaryngology (Code 10250361)**

Major subject: ONK 800 Otorhinolaryngology 800.

Prerequisites: ANP 870 Anatomical Pathology 870*; ANA 875 Anatomy 875*; FSG 801 Physiology 801*; BVC 807 Principles of Surgery 807.

Duration of training: Four years.

(xvi) **Orthopaedics (Code 10250201)**

Major subject: ORT 800 Orthopaedics 800.

Prerequisites: ANA 895 Anatomy 895*; FSG 801 Physiology 801*; ANP 879 Anatomical Pathology 879*; BVC 802 Principles of Surgery 802 (Surgery, Urology, Neuro-Surgery, Orthopaedics, Plastic Surgery, Thoracic Surgery).

Duration of training: Five years.

(xvii) **Pathology**

(1) **Clinical Pathology: (Code 10250241)**

Suspended

(2) **Anatomical Pathology: (Code 10250251)**

Major subject: ANP 800 Anatomical Pathology 800.

Prerequisites: ANP 801 Anatomical Pathology 801 or *Capita Selecta* from Chemical Pathology (CHP 871), Haematology (HEM 871), Medical Microbiology (GMB 871), Medical Virology (GVR 871) - as approved in consultation with the heads of the departments in question.

Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.

(3) **Medical Microbiology: (Code 10250261)**

Major subject: GMB 800 Medical Microbiology 800

Prerequisites: GMB 801 Medical Microbiology 801, or

Capita Selecta from Anatomical Pathology 801 (APY 871), Chemical Pathology (CHP 871), Haematology (HEM 871), Medical Virology (GVR 871) – as approved in consultation with the heads of the departments in question.

Satisfactory progress after one year of training is required as evaluated by the applicable examination panel.

(4) **Chemical Pathology: (Code 10250271)**

Major subject: CHP 800 Chemical Pathology 800.

- Prerequisites: FSG 801 Physiology 801, CHP 801 Chemical Pathology 801, or *Capita Selecta* from Anatomical Pathology (APY 871), Haematology (HEM 871), Medical Microbiology (GMB 871), Medical Virology (GVR 871) – as approved in consultation with the heads of the departments in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.
- (5) **Haematology: (Code 10250281)**
Major subject: HEM 800 Haematology 800.
Prerequisites: FSG 801 Physiology 801, HEM 801 Haematology 801, or *Capita Selecta* from Anatomical Pathology (APY 871), Chemical Pathology (CHP 871), Medical Microbiology (GMB 871), Medical Virology (GVR 781) – as approved in consultation with the heads of the departments in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.
- (6) **Medical Virology: (Code 10250391)**
Major subject: GVR 800 Medical Virology 800
Prerequisites: GVR 801 Medical Virology 801, or *Capita Selecta* from Anatomical Pathology (APY 871), Chemical Pathology (CHP 871), Haematology (HEM 871), Medical Microbiology (GMB 871) – as approved in consultation with the heads of the departments in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.
Duration of training: Four years, of which at least three years must be in the major subject.
The fourth year can either be in the major subject or in any combination of the other Pathology specialisations.
- (xviii) **Plastic Surgery (Code 10250211)**
Major subject: PCR 800 Plastic Surgery 800.
Prerequisites: ANA 896 Anatomy 896*; FSG 801 Physiology 801*; ANP 876 Anatomical Pathology 876*; BVC 803 Principles of Surgery 803 (Neuro-Surgery, Orthopaedics, Plastic Surgery, Thoracic Surgery, Urology, Surgery).
Duration of training: Five years.
- (xix) **Psychiatry (Code 10250141)**
Major subject: PSI 800 Psychiatry 800.
Prerequisites: ANA 804 Anatomy 804*; FSG 801 Physiology 801*; ANP 872 Anatomical Pathology 872*; MTS 801 Medical Applied Psychology 801*; NRE 801 Neurology 801.
Duration of training: Four years.
- (xx) **Radiological Diagnostics (Code 10250151)**
Major subject: RDD 800 Radiological Diagnostics 800.
Prerequisites: ANP 807 Anatomical Pathology 807 (simultaneously with the major subject at the end of the fourth year); ANA 808 Anatomy 808*; FSG 801 Physiology 801*; MFK 800 Medical Physics 800*.
Duration of training: Five years.
If the course is followed after having obtained the MMed degree specialising in Radiation Oncology, the duration of the course will be three years.

(xxi) Radiation Oncology (Code 10250162)

Major subject: SOZ 800 Radiation Oncology 800 (including Medical Oncology).
 Prerequisites: ANP 809 Anatomical Pathology 809; ANA 809 Anatomy 809*; FSG 801 Physiology 801*; MFK 801 Medical Physics 801* (must be finalised within 18 months), Radiobiology 801 (must be finalised within 30 months).
 Duration of training: Four years.
 If the course is followed after having obtained the MMed degree specialising in Radiological Diagnostics, the duration of the course will be three years.

(xxii) Thoracic Surgery (Code 10250231)

Major subject: TCR 800 Thoracic Surgery 800.
 Prerequisites: ANA 898 Anatomy 898*; FSG 801 Physiology 801*; ANP 878 Anatomical Pathology 878*; BVC 805 Principles of Surgery 805 (Neuro-Surgery, Orthopaedics, Plastic Surgery, Urology, Surgery, Thoracic Surgery).
 Duration of training: Five years.

(xxiii) Urology (Code 10250221)

Major subject: URO 800 Urology 800.
 Prerequisites: ANA 897 Anatomy 897*; FSG 801 Physiology 801*; ANP 877 Anatomical Pathology 877*; BVC 804 Principles of Surgery 804 (Neuro-Surgery, Orthopaedics, Plastic Surgery, Urology, Surgery, Thoracic Surgery).
 Duration of training: Five years.

(f) Examinations

- (i) The sequence of the examinations in the prerequisite subjects will be determined by the Head of the Department under which the major subject falls.
- (ii) The nature, duration and dates of the examinations in the prerequisite subjects are determined in co-operation with the Heads of the Departments under which the prerequisite subjects fall – with the proviso that, except in cases where stipulated otherwise, the examinations in the prerequisite subjects may be held at any time prior to or concurrently with the major subject. The examinations in the major subjects are held as follows:
 - In the case of four-year courses: not before the end of the third year.
 - In the case of five-year courses: not before the end of the fourth year.
- (iii) A subminimum of 50% is required by all the departments in the clinical section of the examination. A minimum final mark of 50% is required to pass in a subject. General Regulation G.12 is applies.
- (iv) A student is not admitted to the examination in a prerequisite subject (supplementary examinations excluded) more than twice, nor is he or she admitted to the examination in the major subject more than twice.

Note: Certificates of satisfactory preparation and progress are required in respect of the fourth year of four-year courses in which an examination is held at the end of the third year.

(g) Supplementary examinations

Supplementary examinations for MMed students will only be held after at least six months have elapsed since the conclusion of the examination in which the student failed.

(h) Conferment of the degree/Degree with distinction

The degree is conferred at the end of the prescribed training period (i.e. 3, 4 or 5 years, respectively). The degree is conferred with distinction on a student who has obtained a final mark of at least 75% in his or her major subject.

(i) General

Departments require that clinical assistants participate increasingly in the examination and treatment of patients in the hospital (both in-patients and out-patients); initially under supervision and later at their own responsibility. Lectures/symposia with closely related departments are organised, as well as discussions of literature, etc.

**M.4 MASTER OF MEDICINE WITH SPECIALISATION IN FAMILY MEDICINE
(MMed with specialisation in Family Medicine) (Code 10250401)**

Also consult General Regulations.

(a) Requirements for admission

A candidate for admission to the study for the degree MMed with specialisation in Family Medicine must be in possession of the MBChB degree of the University of Pretoria or a qualification recognised by the University as an equivalent qualification, as well as full registration as medical practitioner with the Health Professions Council of South Africa. He or she must also work in a primary health-care facility which is acceptable to the Department.

(b) Duration

The training extends over four years.

(c) Exemption from courses

Partial exemption from courses by virtue of comparable training may be granted by the Faculty Board, provided that exemption will in each case be considered on merit.

(d) Curriculum:

(i) Part I

- | | | |
|-----|---------|---------------------------------------|
| (1) | AEH 800 | Anatomy, Embryology and Histology 800 |
| (2) | FSG 809 | Physiology 809 |
| (3) | PRV 801 | Medical Practice 801 |

(ii) Part II

- | | | |
|-----|---------|------------------------|
| (1) | CHP 807 | Chemical Pathology 807 |
| (2) | KGN 801 | Clinical Medicine 801 |

(iii) Part III

- | | | |
|-----|---------|-------------------------------------|
| (1) | KGN 802 | Clinical Medicine 802 |
| (2) | PRV 802 | Medical Practice 802 |
| (3) | PBO 800 | Practical Professional Training 800 |
| (4) | WKT 880 | Work Assignments 880 |

(iv) Part IV

- | | | |
|-----|---------|-----------------------|
| (1) | KGN 803 | Clinical Medicine 803 |
| (2) | PRV 803 | Medical Practice 803 |

(e) Examinations

- (i) An average of at least 50% must be achieved in the three or four work assignments required annually, for admission to the examination in any year of study.
- (ii) A student will only be admitted to the final examination (Part IV) after successful completion and submission of work assignments based on a research project, as well as a register that will provide proof of the required execution of certain clinical skills as determined by the Department as part of Practical Professional Training 880 (PBO 880).

(iii) Examination periods

- (1) Examinations are held during the winter and the summer examination periods, except in Part III (the final examination) in which the examinations will only be held during the summer examination period (October/November).
- (2) The nature, duration and dates of the examinations are determined in consultation with the head(s) of the department(s) under whom the subjects fall.
- (3) A subminimum of 50% is required in the examination, with a final mark of at least 50% to pass in a subject. General Regulation G.12 applies.
- (4) Supplementary examinations will take place only during the May/June and October/November examination periods, except supplementary examinations in (KGN 803) Clinical Medicine 803 for Part III.

(f) Degree with distinction

The degree is conferred with distinction on a student who obtains a final percentage of at least 75% in the following subjects:

- (i) Clinical Medicine 802 and 803
- (ii) Medical Practice 802 and 803

M.5 MASTER OF MILITARY MEDICINE (MMilMed) (Code 10255001)

Also consult the General Regulations.

(a) Requirement for admission

Candidates must be in possession of the MBChB degree for at least two years.

(b) Duration

Three years, of which the first two years will be part-time study, and the last year full-time study as a registrar in the relevant main discipline.

(c) Curriculum

Major subject: Military Medicine (specialising in either MIG 800 Internal Medicine 800 or CHR 800 Surgery 800).

Prerequisites: FSG 801 Physiology 801; VGN 800 Preventive Medicine 800; IGK 804 Internal Medicine 804; CHR 801 Surgery 801; and RAT 800 Radiotherapy 800.

(d) Examinations

- (i) The sequence of the examinations in the prerequisite subjects is determined by the Head of the Department under whom the major subject falls.
- (ii) The nature, duration and dates of the examinations are determined in co-operation with the heads of the departments under whom the prerequisite subjects fall – with the proviso that, except in cases indicated differently, the examinations in the prerequisite subjects will be held at any time prior to, or concurrently with the examinations in the major subject.
- (iii) To pass in a subject, a minimum final mark of 50% is required.
- (iv) A student will not be admitted to the examinations in a prerequisite subject, or to the examination in the major subject, more than twice (supplementary examinations excluded).

(e) Supplementary examinations

Supplementary examinations will take place only after at least six months have elapsed since the conclusion of the examination in which the student failed.

(f) Degree with distinction

The degree is conferred with distinction on a student who has obtained a final mark of at least 75% in his or her major subject.

M.6 MASTER OF MEDICAL PHARMACOLOGY (MPharmMed) (Code 10256001)

Also consult General Regulations.

(a) Requirements for admission

A candidate for admission to the study for the MPharmMed degree must be in possession of the MBChB degree of this University or a qualification deemed equivalent by the University, for at least one year. Additionally, the candidate must be registered as a medical practitioner with the Health Professions Council of South Africa.

(b) Duration

Three years of part-time study.

(c) Curriculum

(i) First year of study

MFM 801	Medical Pharmacology 801
MBS 800	Medical Biostatistics 800
FFD 801	Pharmacokinetics and Pharmacodynamics 801

(ii) Second year of study

MFM 802	Medical Pharmacology 802
FFD 802	Pharmacokinetics and Pharmacodynamics 802

(iii) Third year of study

MFM 803	Medical Pharmacology 803
FFD 803	Pharmacokinetics and Pharmacodynamics 803
WKT 880	Work Assignments 880

(d) Examinations

- (i) The examinations for each year of study will take place during the summer examination period.
- (ii) To pass in a subject, a minimum final mark of 50% is required.
- (iii) In addition to the examination, a student will be required to complete the work assignments satisfactorily in order to comply with all the requirements for the degree.
- (iv) Supplementary examinations will not be held before at least six months have elapsed since conclusion of the examination in which the student failed.

(e) Degree with distinction

The degree will be conferred with distinction on a student who has obtained a final mark of at least 75% in the following subjects:

- (i) Medical Pharmacology 802 and 803
- (ii) Pharmacokinetics and Pharmacodynamics 802 and 803

M.7 MASTER OF PUBLIC HEALTH (MPH) (Code 10256501)

Also consult General Regulations.

(a) Admission requirements

A candidate for admission to the study for the Master's degree in Public Health must be in possession of:

- a four-year degree;
- an honours degree;
- an advanced bachelor's degree; or
- a three-year degree and applicable practical work experience in community health as required by the University.

The University may set additional preparatory study or other requirements (e.g. practical experience) as admission requirements in order to ensure the required level of knowledge and skills in the relevant disciplines.

(b) Duration of course

- (i) Two years of full-time, or a maximum of four years part-time study.
- (ii) In exceptional cases the Dean, on the recommendation of the Head of Department, may allow a student to complete the degree course in one year.

(c) Curriculum and general information

For details regarding the curriculum as well as general information, consult the syllabuses of the Department of Public Health in this publication.

(d) Dissertation

A dissertation on an approved research project must be passed in addition to the course work. The stipulations of General Regulation G.57.3 regarding the preparation and submission of a dissertation apply; also the stipulations of General Regulation G.58 regarding the technical editing of the dissertation, and G.59 regarding the résumé of the dissertation.

(e) Pass requirements

- (i) The minimum pass mark for a module is 50%.
- (ii) Apart from the required dissertation, all modules must be passed independently of each other to provide the required course credits, as each module consists of a specific number of credits. A total of 80 credits is required for the course work of this degree. For further details in this regard, consult the publication of the School of Health Systems and Public Health.
- (iii) Supplementary examinations in modules are arranged by the Head of Department within a period specified by him or her. The student may indicate his or her preference with regard to a supplementary examination in the module or, if the failed module is part of the area on which the student is concentrating, a comprehensive examination at the end of the course. The Head of Department is, however, not bound by this preference, although it will be taken into consideration. This option does not apply if the student has failed in more than one module in his or her area of concentration.
- (iv) If a student should obtain a mark of less than 40% in a module, he or she will not be granted a supplementary examination. Instead, the module must be repeated in its entirety.
- (v) Only with the approval of the Dean, on the recommendation of the Head of Department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).

(f) Evaluation and degree with distinction:

The average mark of the modules, weighted in respect of points acquired for each individual module, will be the final mark (%) of the course work. The degree will be conferred with distinction on a student who has obtained an average of at least 75% in the course work as well as a final mark of at least 75% for the dissertation.

M.8 BACCALAUREUS SCIENTIAE (HONORES) [BSc(Hons)]

Also consult General Regulations.

(a) Requirements for admission

A candidate must hold a bachelor's degree or an equivalent qualification with at least one applicable biological subject as major subject. Admission to the study for an honours degree is subject to the approval of the Head of Department: with the proviso that a candidate who has obtained an average of less than 60% in his or her major subjects in the final year of the bachelor's degree may only be admitted to study with the Dean's approval, on the recommendation of the Head of Department.

Additional requirements may be set by the Head of Department. The prerequisites for admission to the honours degree in certain fields of study are indicated in the syllabuses of those departments: Physiology, Radiographic Sciences and Nursing Science.

(b) Duration

One year of full-time study
Two years of part-time study

(c) Curriculum

(i) The BSc(Hons) degree is conferred in the following fields of study:

Field of study	Degree Code	Course
Aerospace Medicine	10244021	LRG 700
Anatomy	10243012	ANA 700
Cell Biology	10244951	SBI 700
Chemical Pathology	10243151	CHP 700
Haematology	10244061	HEM 700
Human Genetics	10243072	MGN 700 and 790
Human Oncology	10244031	MON 700
Human Physiology	10243023	MFG 777 [See c(iii)]
Medical Criminalistics	10243191	KRT 700
Medical Immunology	10243171	GIM 700
Medical Microbiology	10243001	GMB 700
Medical Nuclear Science	10243181	GKW 700
Medical Physics	10243011	See c (iv)
Medical Virology	10243132	GVR 700
Pharmacology	10243161	FAR 705 [See c(v)]
Quantitative Health Science	10244011	KGW 700
Radiation Oncology	10243143	SOZ 700
Reproductive Biology	10244041	RBI 700
Reproductive Biology : Andrology	10244042	RBA 700

(ii) **The following requirements are set**

- Advanced instruction by means of self-tuition and four compulsory seminars of which at least one must be read to and defended before the department in question, on topics assigned to the student.
- Practical experience of the laboratory techniques used in the particular subsections of the subject.
- Attendance of the compulsory Faculty course (TNM 800) Applied Research Methodology 800.
- Attendance of the prescribed course Biostatistics 701 (BSK 701) or (MBS 800) Medical Biostatistics 800.
- Taking part in a research project and presentation of an independent research report
- Attendance of a library-user course.

(iii) **The following additional requirements are set for the specialisation Human Physiology**

- **Admission requirements:**
A minimum average of 60% in the final year (undergraduate) in Physiology.
- **Pass requirements:**
An average of at least 50% in all the sections of the course MFG 777 is required in order to pass (see syllabi). A minimum year mark of 40% is required for admission to the examination. The year mark is compiled

from an average of 3 tests (50%), seminars and discussions on journals (25%), and project and presentation (25%). TNM 800 and MBS 800 must be completed successfully before the degree will be conferred.

(iv) **The following additional requirements are set for the specialisation Medical Physics:**

- Courses to be taken in the Department of Physics, Faculty of Science:
 - FSK 710 Mathematical Methods 710
 - FSK 711 Classical Dynamics 711
 - FSK 713 Quantum Mechanics 713
 - FSK 714 Electrodynamics 714

- Courses to be taken in the Department of Medical Physics, Faculty of Medicine:
 - GNF 700 Medical Physics: Practical Work 700
 - GNF 701 Medical Physics: Nuclear Medicine 701
 - GNF 702 Medical Physics: Diagnostic Radiology 702
 - GNF 703 Medical Physics: Radiation Physics 703
 - GNF 704 Medical Physics: Radiotherapy 704
 - GNF 705 Medical Physics: Radiation Protection 705

(v) **The following additional requirements are set for the specialisation Pharmacology:**

Admission requirements:

- A minimum average of 60% in Pharmacology at undergraduate level.
- In addition, the subject (FAR 305) Pharmacology 305 must be completed at the Department of Pharmacology, if not completed at undergraduate level.

(d) **Examinations**

- (i) The examination at the end of the course will consist of two written papers of 3 hours each as well as an oral examination of 30 minutes.
- (ii) For the field of specialisation Medical Physics, one examination of 3 hours is required in each of the theoretical courses. The mark awarded to the practical work will also be taken into account when the final mark is calculated.
- (iii) The maximum period for completion of the honours degree, is two years in the case of full-time students and three years in the case of part-time students. In exceptional circumstances, a student may apply, in writing, to the Head of Department for an extension of the period of study.
- (iv) To comply with the pass requirements for the degree, a student must obtain a final mark of at least 50% in each division as indicated, as well as a pass mark of at least 50% for the essay/assignment (if applicable). The stipulations regarding pass requirements for dissertations in General Regulation G.60.2.1.2(a) apply *mutatis mutandis* to essays.

(e) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the examination (written, oral, practical, etc.).

M.9 MAGISTER SCIENTIAE (MSc)

Also consult General Regulations.

(a) Admission requirements

Subject to the stipulations of General Regulation G.62, an applicable bachelor's degree is required, or an honours degree, or in the case of a three-year degree, also applicable practical (work) experience as prescribed by the University, plus any other additional work deemed necessary by the Head of Department.

N.B.: All MSc students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption may be granted by if the course has already been passed for the BSc(Honours) degree.)

- (b)** The maximum period for completion of the master's degree is four years. Under exceptional circumstances, a student may apply to the Head of Department in writing, for an extension of the study period.
- (c)** After registration, a student is required to submit a complete protocol regarding the proposed dissertation to the Academic Advisory Committee and if necessary, also to the Ethics Committee for approval.
- (d)** A dissertation must be submitted via the Head: Faculty Administration at least 3 months prior to the date of a particular graduation ceremony. A manual on the editing of dissertations is available on request from the Head of the Department in question.
- (e)** In accordance with the stipulations of General Regulation G.40.1, the MSc degree is conferred by virtue of an examination, or an examination and a dissertation, or an examination and an essay, or a dissertation.

Degree with distinction: The degree is conferred with distinction on a student who has obtained an average of at least 75% in the examination, or in the examination and the dissertation, or in the examination and the essay, or in the dissertation.

(f) Fields of specialisation

The MSc degree is conferred in the following fields of specialisation:

Field of study	Degree Code	Examination Code	Dissertation
Aerospace Medicine	10253251	LRG 800	LRG 890
Anatomy	10253012	ANA 877	ANA 890
Applied Human Nutrition [See (h)]	10253341	See (h)	DEK 895
Cell Biology	10253102	SBI 800	SBI 890
Chemical Pathology	10253042	CHP 809	CHP 890
Clinical Epidemiology [See (f)(i)]	10253331	KEP 800	KEP 890
Community Health [See (f)(i)]	10253291	GGG 801	GGG 890
Epidemiology [See (f)(i)]	10253321	EPI 800	EPI 890

Haematology	10253261	HEM 809	HEM 890
Human Genetics	10253072	MGN 800	MGN 890
Human Oncology	10253082	MON 800	MON 890
Human Physiology	10253023	MFG 807	MFG 890
Medical Applied Psychology [See (f)(i)]	10253322	See (f)(i)	MTS 890
Medical Criminalistics	10253122	KRT 800	KRT 890
Medical Immunology	10253242	GIM 800	GIM 890
Medical Microbiology	10253032	GMB 801	GMB 890
Medical Nuclear Science	10253062	GKW 800	GKW 890
Medical Oncology	10253082	MON 809	MON 890
Medical Physics	10253271	GNF 800	GNF 890
Medical Virology	10253132	GVR 800	GVR 890
Pharmacology	10253052	FAR 805	FAR 890
Quantitative Health Science [See (f)(i)]	10253112	KGW 800	KGW 890
Radiation Oncology	10253282	SOZ 805	SOZ 890
Reproductive Biology	10253092	RBI 800	RBI 890
Reproductive Biology: Andrology	10253311	RBA 800	RBA 890
Sports Medicine [See par. (g)]	10253142	See par. (g)	See par. (g)

- (g) The following additional requirements are set for the MSc degree with specialisation in Epidemiology, in Clinical Epidemiology, in Community Health or in Quantitative Health Science:

(i) **Admission requirements**

A candidate for admission to studies for the **MSc degree with specialisation in Epidemiology, in Clinical Epidemiology or in Community Health**, must be in possession of any four-year degree or any honours degree or any advanced bachelor's degree or any three-year bachelor's degree with applicable (work) experience in the field of Community Health.

For the **specialisation Quantitative Health Science**, an applicable bachelor's degree is required, with Statistics at bachelor's level, as well as that

- (aa) the candidate holds a position in a biostatistical field which is acceptable to both the Deans of the Faculty of Science and the Faculty of Medicine, on the recommendation of the Heads of the Departments of Statistics and Community Health;

- (bb) the nature and extent of the student's dissertation must also be approved by both Deans, on the recommendation of the Heads of the Departments in question; and
- (cc) with the exception of Statistics, an equivalent major subject may also be considered.

(ii) **Curriculum**

Students registered for any of these four fields of specialisation, must, apart from the required dissertation, complete 32 credits in Epidemiology and in Biostatistics, with the exception of the following:

- (aa) Students who register for the **specialisation Quantitative Health Science** will not be required to follow the courses in Biostatistics, as they have already completed Statistics at bachelor's degree level. The 12 credits in Biostatistics will be replaced by other relevant course work as determined by the Head of Department.
- (bb) Students registered for the **specialisation Community Health**, will be assigned at least 20 credits of course work in Epidemiology and in Biostatistics. The remaining 12 credits will be obtained through other relevant course work as determined by the Head of Department.
- (cc) Students with prior training in **Epidemiology or in Biostatistics**, may apply to the Head of Department to waive these course requirements. Satisfactory evidence of such training must be provided. An entrance examination to evaluate the student's competency in Epidemiology and/or in Biostatistics may be set. The Head of Department will take all submissions of previous training and the entrance examination results into consideration, but is under no obligation whatsoever to waive these course work requirements in part or in total.
- (dd) The requirement with regard to **(TNM 800) Applied Research Methodology 800** is included in the course work for any of these four specialisations for the MSc degree, and counts for 2 of the prescribed 32 credits of course work.

(iii) **Pass requirements**

- (aa) The minimum pass mark for a module is 50%.
- (bb) To obtain the degree, all modules must be passed independently of each other.
- (cc) Supplementary examinations in the modules are arranged by the Head of Department, within a period of time specified by him or her.
- (dd) No supplementary examinations will be granted in modules in which less than 40% has been obtained. Instead, the module must be repeated in its entirety.
- (ee) Only with the approval of the Dean, on the recommendation of the Head of Department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).

(iv) **Dissertation**

A dissertation on an approved research project must be passed in addition to the course work. The stipulations of General Regulation G.57.3 regarding the preparation and submission of a dissertation apply; also the stipulations of General Regulation G.58 regarding the technical editing of the dissertation; and G.59 regarding the résumé of the dissertation.

(v) **Evaluation and Degree with distinction**

The average mark of the modules, weighted in respect of the number of credits acquired for each individual module, will be the final mark (%) of the course work. The degree is conferred with distinction on a student who obtains an average mark of at least 75% in the course work, as well as a final mark of at least 75% for the dissertation.

(h) The following additional requirements are set for the **MSc degree with specialisation in Sports Medicine:**

(i) **Admission**

A candidate for admission to studies for the MSc degree with specialisation in Sports Medicine, must be in possession of the MBChB degree of this University, or a qualification deemed equivalent by the University, for at least one year. Additionally, the candidate must be registered as a medical practitioner with the Health Professions Council of South Africa.

(ii) **Curriculum**

SGN 802	Sports Medicine 802 (Examination and Oral: End of first year of study)
SGN 800	Sports Medicine 800 (Examination, Oral and Practical: End of second or final year of study)
SGN 891	Sports Medicine 891 (Work Assignment)
DTE 800	Sports Dietetics 800
FSG 880	Sports Physiology 880
SAN 880	Sports Anatomy 880
WKT 808	Work Assignment 808 (Progress at the end of the first year)
TNM 801	Applied Research Methodology 801

(iii) **Examinations**

- (1) Examinations in the basic subjects FSG 880, SAN 880 and DTE 880 will take place at the end of the first semester.
- (2) The examination will comprise a two-hour written paper as well as an oral examination in each subject, with a subminimum of 40% required in the written examination. To pass in a course, a minimum final mark of 50% is required.
- (3) Should a student fail one of the basic subjects, he or she may repeat the examination at the end of the second semester.
- (4) Examinations (two papers of 3 hours each as well as an oral and a practical), as well as the work assignment in the major subject Sports Medicine, may only take place/be submitted after completion of the basic subjects.

(iv) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average mark of at least 75% in all the above-mentioned examination courses and has completed the work assignment satisfactorily.

(i) The following additional requirements are set for the **MSc degree with specialisation in Applied Human Nutrition**:

(i) **Admission**

A recognised bachelor's degree in Medicine or a supplementary health service profession; or a recognised and applicable bachelor honours degree, of equivalent status as the BDietetics degree in respect of Physiology and Biochemistry.

(ii) **Curriculum**

(1)	TNM 800	Applied Research Methodology 800
(2)	DEK 884	Human Nutrition 884
(3)	DEK 885	Human Nutrition 885
(4)	DEK 886	Diet Therapy 886 or
	DEK 887	Applied Nutrition 887
(5)	DEK 888	Two Literature Studies 888
(6)	DEK 895	Essay 895

(iii) **Degree with distinction**

The MSc degree with specialisation in Applied Human Nutrition is conferred with distinction on a student who obtains an average of at least 75% in all the above-mentioned subjects and for the essay.

(j) The following additional requirements are set for the **MSc degree with specialisation in Medical Applied Psychology**:

(i) **Admission requirements**

An appropriate honours degree. In certain cases, supplementary courses may be prescribed by the Head of Department. Only a limited number of students are admitted annually. Written applications should reach the Head of Department not later than the second week in January of the year in question.

(ii) **Curriculum**

(1)	MTS 802	Transcultural Practice 802
(2)	MTS 803	Personality Theory 803
(3)	MTS 804	Human Development 804
(4)	MTS 805	Research Methodology 805
(5)	MTS 806	Pathology 806
(6)	MTS 807	Communication Theory 807
(7)	MTS 808	Practical Work: Medical Applied Psychology 808
(8)	MTS 890	Dissertation 890

NB: Students with previous academic training in Psychology may apply for exemption from certain parts of the course by virtue of equivalent courses passed at postgraduate level.

M.10 DOCTOR OF MEDICINE (MD)

Also consult General Regulations.

NB: All MD students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption may be granted if Applied Research Methodology 800 has been passed for the Master's degree.)

- (a) For admission to the study for the MD degree, a candidate must be in possession of the MMed or the PhD degree, or a qualification of equivalent status following a MBChB degree – in the case of Family Medicine, the MMed degree with specialisation in Family Medicine; and in the case of Pharmacology, the MPharmMed degree of the University of Pretoria. Alternatively, the student must comply with the stipulations as set out in General Reg. G.45.
- (b) The MD degree is conferred by virtue of a thesis and, if the Dean deems it necessary, an examination on the field of study of the thesis.
- (c) Prior to registration, a complete protocol regarding the proposed thesis (as well as the *curriculum vitae* of the candidate) must be submitted for approval to the Evaluation Committee and if necessary, also to the Ethics Committee. The thesis must deal with a problem from any field of study in Medicine and must satisfy the supervisor and the examiners that it is advanced original research and/or creative work in the field of Medicine. It must give an overview of the literature that was used on the topic and contain a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached.
- (d) The maximum period for completion of the degree is five years. Under exceptional circumstances, a student may apply to the Head of the Department, in writing, for an extension of this period.
- (e) The MD degree can be obtained in the following fields of study:

Field of study	Degree Code	Examination Code	Thesis
Anaesthesiology	10260011	ANE 900	ANE 990
Anatomy	10260221	ANA 900	ANA 990
Community Health	10260241	GGG 900	GGG 990
Dermatology	10260031	DER 900	DER 990
Family Medicine	10260251	HAK 900	HAK 990
Forensic Medicine	10260061	GGK 900	GGK 990
Geriatrics	10260041	GER 900	GER 990
Haematology	10260291	HEM 900	HEM 990
Health Systems	1026040	GSL970	GSL990
Human Physiology	10260272	MFG 900	MFG 990
Internal Medicine	10260051	IGK 900	IGK 990
Medical Microbiology	10260281	GMB 900	GMB 990
Medical Oncology	10260361	MON 900	MON 990

Field of study	Degree Code	Examination Code	Thesis
Neurology	10260071	NRE 900	NRE 990
Neuro-Surgery	10260171	NCR 900	NCR 990
Obstetrics and Gynaecology	10260081	OEG 900	OEG 990
Ophthalmology	10260091	OHK 900	OHK 990
Orthopaedics	10260181	ORT 900	ORT 990
Otorhinolaryngology	10260231	ONK 900	ONK 990
Paediatrics	10260101	KGE 900	KGE 990
Pathology	10260111	PAT 900	PAT 990
Pharmacology	10260261	FAR 900	FAR 990
Plastic and Reconstructive Surgery	10260191	PCR 900	PCR 990
Psychiatry	10260121	PSI 900	PSI 990
Public Health	10260242	OGD 900	OGD990
Radiobiology	10260141	RDT 900	RDT 990
Radiological Diagnostics	10260131	RDD 900	RDD 990
Radiation Oncology	10260141	SOZ 900	SOZ 990
Reproductive Biology	10260010	RBI 900	RBI 990
Reproductive Biology : Andrology	10260012	RBA 900	RBA 990
Surgery	10260021	CHR 900	CHR 990
Thoracic Surgery	10260211	TCR 900	TCR 990
Urology	10260201	URO 900	URO 990

M.11 PHILOSOPHIAE DOCTOR (PhD)

Also consult General Regulations.

NB: All PhD students must register for TNM 800 Applied Research Methodology 800 and attend the course satisfactorily. (Exemption may be granted if Applied Research Methodology 800 has been passed for the Master's degree.)

- (a) Subject to the stipulations of General Regulations G.45 and G.62, a candidate will only be admitted to studies for the doctoral degree if he or she holds a MBChB or a master's degree or has been granted the equivalent status.
- (b) A PhD student must:
- (i) undertake original research under a promoter at the University or elsewhere, as approved by the Senate, to the satisfaction of the examiners; and

- (ii) submit a thesis which will prove to the examiners, that he or she has, on the grounds of independent critical judgement made a distinct contribution towards the enrichment of knowledge in the chosen subject.
- (c) A student for the PhD degree must be registered for the doctoral degree study at the University for at least one academic year before the degree can be conferred.
- (d) The PhD degree is conferred by virtue of a thesis and, should the Dean deem it necessary, an examination on the field of study of the thesis.
- (e) Prior to registration, a complete protocol regarding the proposed thesis (as well as the *curriculum vitae* of the candidate) must be submitted to the Evaluation Committee and, if necessary, also to the Ethics Committee for approval. The thesis must deal with a problem from any field of study in Medicine and must satisfy the supervisor and the examiners that it is advanced original research and/or creative work in the field of Medicine. It must give an overview of the literature that was used on the topic and contain a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached.
- (f) The doctoral examination will be oral and/or written and will deal with the content of the thesis as well as those subdivisions of the field of study on which the thesis is based, if necessary.
- (g) The maximum period for completion of a doctoral degree is five years. Under exceptional circumstances, a student may apply to the Head of the Department in writing, for an extension of this period.
- (h) The following additional requirements are set for the **Public Health field of study** for the PhD degree:
 - (i) Students who register for this field of study, must complete 32 credits of course work in Epidemiology and in Biostatistics, as prescribed for the specialisations Epidemiology, Clinical Epidemiology or Quantitative Health Sciences at master's level.
 - (ii) Students with prior training in Epidemiology or in Biostatistics may apply to the Head of Department to waive these course requirements. Satisfactory proof of such training must be submitted. An entrance examination to evaluate the student's competence in Epidemiology and/or Biostatistics may also be required. The Head of Department will take all submissions and entrance examination results into consideration, but is under no obligation whatsoever to waive these course work requirements in part or in total.
 - (iii) The Head of Department may also require additional course work applicable to the particular research field.
 - (iv) The compulsory course (TNM 800) Applied Research Methodology 800 for all PhD candidates is included in the requirements for this field of study as indicated above.
 - (v) With regard to pass requirements for the modules in Epidemiology and in Biostatistics:
 - (aa) The minimum pass mark for a module is 50%.
 - (bb) All modules must be passed independently of each other.
 - (cc) The Head of Department arranges a supplementary examination in a module; within a period of time determined by him.

- (dd) A student who obtains less than 40% in a module, does not qualify for a supplementary examination and will have to repeat the module in question in its entirety.
- (ee) A student who fails two modules (or the same module twice), may not continue his studies in this field, unless approved by the Dean, on the recommendation of the Head of Department.

- (i) The PhD degree can be obtained in the following fields of study:

Field of study	Degree Code	Examination Code	Thesis
Anaesthesiology	10260521	ANE 900	ANE 990
Anatomic Pathology	10260441	ANP 900	ANP 990
Anatomy	10260331	ANA 900	ANA 990
Chemical Pathology	10260501	CHP 900	CHP 990
Community Health	10260401	GGs 900	GGs 990
Dietetics	10263061	DEK 900	DEK 990
Family Medicine	10260461	HAK 900	HAK 990
Health Systems	10260402	GSL 900	GSL 990
Human Genetics	10260421	MGN 900	MGN 990
Human Physiology	10260342	MFG 900	MFG 990
Internal Medicine	10260381	IGK 900	IGK 990
Medical Immunology	10263051	GIM 900	GIM 990
Medical Microbiology	10260351	GMB 900	GMB 990
Medical Nuclear Science	10260481	GKW 900	GKW 990
Medical Oncology	10260431	MDN 900	MDN 990
Medical Physics	10260541	GNF 900	GNF 990
Medical Virology	10260491	GVR 900	GVR 990
Nursing Science	10260311	VGK 900	VGK 990
Obstetrics and Gynaecology	10260551	OEG 900	OEG 990
Occupational Therapy	10260321	ART 900	ART 990
Orthopaedics	10260371	ORT 900	ORT 990
Paediatrics	10260511	KGE 900	KGE 990
Pharmacology	10260531	FAR 900	FAR 990
Physiotherapy	10260451	FTP 900	FTP 990
Psychiatry	10260483	PSI 900	PSI 990
Public Health	10260403	OGD 900	OGD 990

Field of study	Degree Code	Examination Code	Thesis
Reproductive Biology	10260482	RBI 900	RBI 990
Reproductive Biology : Andrology	10260484	RBA 900	RBA 990
Urology	10260391	URO 900	URO 990

II. DEGREES IN NURSING SCIENCE

M.12 BACHELOR OF NURSING (BCur) (Code 10131011)

(a) Requirements for admission

- (i) A matriculation exemption certificate; and
- (ii) proof of registration as a student nurse at a teaching hospital approved by the SA Nursing Council.
Mathematics or Physical Science at matriculation level will be a strong recommendation.

(b) Practical and clinical training

- (i) A student is registered as a student nurse at an approved teaching hospital (or hospitals) where all the clinical training for the duration of the course will take place.
- (ii) Students will be required to visit clinics outside of the hospital as well as institutions providing preventive services.

(c) Duration

- (i) The course extends over 4 years full-time study in preparation for registration as a general, psychiatric and community nurse and midwife.
- (ii) Sick-leave may be granted according to the requirements of the SANC.

(d) Curriculum

The first column indicates the courses to be taken. In a course listed in the second column (prerequisites) and followed by the symbol GS, a combined mark (semester or year mark plus examination mark) of at least 40% must be obtained. Other courses in this column must be passed in order to gain admission to the course in the first column.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

(i) First year of study

		Prerequisites
(1)	VGK 112	Nursing Science 112
(2)	VGK 122	Nursing Science 122
(3)	SOS 110	Sociology 110
(4)	SOS 120	Sociology 120
		VGK 112
		SOS 110 GS

- | | | | |
|-------------------------|---------|---------------------------------------|--|
| (5) | SLK 102 | Psychology 102 | |
| (6) | ANA 102 | Anatomy 102 | |
| Promotion course | | | |
| (7) | VGK 103 | Nursing Science Practical Work
103 | |

(ii) Second year of study

- | | | | |
|-------------------------|---------|---------------------------------------|--------------|
| (1) | VGK 212 | Nursing Science 212 | |
| (2) | VGK 222 | Nursing Science 222 | VGK 212 |
| (3) | FSG 102 | Physiology 102 | |
| (4) | SOS 210 | Sociology 210 | SOS 110, 120 |
| (5) | SOS 220 | Sociology 220 | SOS 210 GS |
| (6) | SLK 202 | Psychology 202 | SLK 102 |
| (7) | MBG 200 | Microbiology 200 | |
| Promotion course | | | |
| (8) | VGK 203 | Nursing Science Practical Work
203 | VGK 103 |

(iii) Third year of study

- | | | | |
|-----|---------|---------------------------------------|---------|
| (1) | VGK 312 | Nursing Science 312 | |
| (2) | VGK 322 | Nursing Science 322 | VGK 312 |
| (3) | VGK 302 | Nursing Science Practical Work
302 | VGK 203 |
| (4) | FAR 305 | Pharmacology 305 | |
| (5) | VLV 320 | Midwifery 320 | |

(iv) Fourth year

- | | | | |
|-----|---------|---------------------------------------|---------|
| (1) | VGK 400 | Nursing Science 400 | |
| (2) | VGK 402 | Nursing Science Practical Work
402 | VGK 302 |
| (3) | VLV 402 | Midwifery 402 | |

(e) Promotion to a subsequent year of study

- (i) A student must pass Nursing Science 112 and 122 and Anatomy 102 and obtain at least 40% in Nursing Science Practical Work 103 for admission to the second year of study.
- (ii) A student must pass Nursing Science 212, 222 and Physiology 102 and obtain at least 40% in Nursing Science Practical Work 203 to be admitted to the third year of study.
- (iii) A student must pass Nursing Science 312, 322; Nursing Science Practical Work 302 and Midwifery 320 for admission to the fourth year of study. A student must pass all divisions of Nursing Science 312, 322 and Nursing Science Practical Work 302, i.e. General Nursing, Psychiatric Nursing and Community Nursing, individually, in order to pass the subject.
- (iv) A student may not continue with the second semester in Nursing Science and Nursing Science Practical Work in any year of study if Nursing Science of the first semester has not been passed and if a half-year mark of at least 40% has not been obtained in Nursing Science Practical Work.
- (v) Students who repeat a year of study, must also acquire a certificate of satisfactory attendance and progress in Nursing Science and Nursing Science Practical Work when repeating the particular year.

- (vi) A student can promote first-semester courses offered by the Department of Nursing, if a minimum semester mark of 70% has been obtained in those courses.
- (f) **Supplementary examinations**
Supplementary examinations are granted by the examination commission in accordance with the stipulations of the General Regulations in this regard.
- (g) **Practical Work**
Certain hospitals and health services have been approved for the purposes of practical work in Nursing Science, Midwifery, Psychiatric Nursing and Community Nursing.
- (h) **Conferment of the degree/Degree with distinction**
 - (i) A student who has completed the course, obtains a degree certificate with the annotation: *Trained as a nurse (general, psychiatric and community nurse) and midwife.*
 - (ii) The degree is conferred with distinction on a student who has obtained an average of at least 75% in the final-year courses.

M.13 BACHELOR OF NURSING (EDUCATION AND ADMINISTRATION) [BCur(I et A)] (Code 10131081)

- (a) **Requirements for admission are**
 - (i) A matriculation exemption certificate; or a conditional exemption certificate by virtue of mature age (full details available on request from the Faculty Administration).
 - (ii) Proof of registration as a general nurse or psychiatric nurse with the South African Nursing Council. Candidates who intend following Community Nursing, must also register as midwife/master.
 - (iii) At least two years of practical experience as a registered nurse (courses excluded).
 - (iv) All prospective students must submit with the application form written approval from their employer that they may follow the course.
 - (v) The student must have access to approved clinical facilities if the course Clinical Nursing is taken.
- (b) **Duration**
At least three years.
- (c) **Compilation of the curriculum**
 - (i) A student must compile his or her curriculum annually in consultation with the Head of Department.
 - (ii) The curriculum must include at least the following semester courses or their equivalent in year courses (one year course equals two semester courses): four semester courses at 300 level in two subjects regarded as major subjects, with the following combination as requirement for each of the three fields of specialisation:

- For the specialisation Management: Nursing Management and Industrial and Organisational Psychology are followed.
- For the specialisation Education: Nursing Education Theory and Nursing Education Management are followed.
- For the specialisation Community Nursing: this subject and either Nursing Management or Industrial and Organisational Psychology as second major subject are chosen in consultation with the Head of Department.

(d) Subjects

The first column indicates the subjects and subject codes that may be chosen. Prior to admission to the courses in the first column, the prerequisites regarding the courses listed in the second column must be met, as indicated by the symbols:

- (i) GS: a combined mark of at least 40%.
- (ii) No symbol: a pass mark in the course in question.

Subjects	Requirements
Community Nursing	
GVP 110	
GVP 120	GVP 110
GVP 200	GVP 110, 120
GVP 300	GVP 200
Clinical Nursing	
KVG 100	
KVG 210	KVG 100
KVG 220	KVG 210
KVG 300	KVG 210, 220
Industrial and Organisational Psychology	
BDO 110	
BDO 120	BDO 110 GS
BDO 210	BDO 110 or 120 with a GS in the other
BDO 220	BDO 110, 120 with a GS in the other
BDO 310	BDO 110, 120; 210 or 220 with a GS in the other
BDO 320	BDO 110, 120; 210 or 220 with a GS in the other
or	
BDO 219	BDO 110 or 120 with a GS in the other
BDO 229	BDO 110 or 120 with a GS in the other
BDO 319	BDO 110, 120; 219 or 229 with a GS in the other
BDO 320	BDO 110, 120; 219 or 229 with a GS in the other
Applied Nursing Research	
TVN 100	
Nursing Management	
VPB 110	
VPB 120	VPB 110
VPB 200	VPB 110, 120
VPB 300	VPB 200

Nursing Education Theory

VOW 110
VOW 120 VOW 110
VOW 210 VOW 110, 120
VOW 220 VOW 210

Nursing Education Practical

VOW 102

Nursing Education Management

VOB 110, 120
VOB 200 VOB 110, 120
VOB 300 VOB 200

Nursing Science Practical Work

VGK 101
VGK 201 VGK 101
VGK 302 VGK 201

Nursing Dynamics

VDN 110
VDN 120 VDN 110

Systems of Nursing Practice

VPT 100

(e) Promotion in a subject

A student can promote in the first-semester courses offered by the Department of Nursing Science if at least 70% has been obtained as a semester mark.

NB: In terms of the stipulations of Gen. Reg. G.10.3(a), a student will only receive credit for a promoted course if an examination in a subsequent course is passed in the specific subject.

(f) Supplementary examinations

Supplementary examinations are granted by the examination commission in terms of the stipulations of the General Regulations.

(g) Degree with distinction

The degree is conferred with distinction on a student who has obtained at least 75% in each of the two major subjects.

Note:

This degree qualifies the graduate to register with the South African Nursing Council, in terms of the chosen fields of specialisation in Nursing Management; Nursing Education; Community Nursing; and Clinical Nursing.

M.14 BACHELOR OF NURSING(HONOURS) [BCur(Hons)]

Suspended until further notice.

M.15 MASTER OF NURSING: (MCur)

Also consult General Regulations.

(a) Fields of study

The master's degree is conferred in the following fields of study:

- (i) Clinical field of study (Code 10251151)
- (ii) Nursing Management (Code 10251111)
- (iii) Nursing Education (Code 10251051)

(b) Requirements for admission**Option 1:****MCur with course work**

- (i) Subject to the stipulations of General Regulation G.62, the Bachelor's degree in Nursing is required for admission. In the case of the non-clinical fields, another approved bachelor's degree may also be considered.
- (ii) A minimum of one year practical (work) experience is also required for admission (excluding a period of time for other training courses).

(iii) Specific admission requirements**(aa) Clinical fields of specialisation**

- (i) Successful completion of an entrance examination.
- (ii) A student must hold at least a part-time position in a clinical facility, deemed applicable by the Head of Department for the particular field of study for the master's degree.
- (iii) For Advanced Medical and Surgical Nursing, registration as a nurse with the SANC is required.
- (iv) For Advanced Obstetrical and Neonatal Nursing, registration as a nurse and a midwife with the SANC is required.
- (v) For Advanced Psychiatric Nursing, registration as a nurse and a psychiatric nurse with the SANC is required.
- (vi) For Advanced Community Nursing, registration as a nurse, a midwife and a community nurse with the SANC is required.
- (vii) For Advanced Emergency Nursing, registration as nurse and midwife with the SANC.
- (viii) For Advanced Paediatric Nursing, registration as nurse and midwife with the SANC.
- (ix) For Advanced Neonatal Nursing, registration as nurse and midwife with the SANC.
- (x) For Advanced Women's Health, registration as nurse, midwife and community nurse with the SANC.
- (xi) For Curative Primary Care, registration as nurse, midwife and community nurse with the SANC as well as listing in physical evaluation of patients.

(bb) Non-clinical fields

- (i) Nursing Management (Code 10251111): registration as nurse and in Nursing Management with the SANC.
- (ii) Nursing Education (Code 10251051): registration as nurse, midwife and lecturer with the SANC.

- (iii) Successful completion of an entrance examination is required in both cases.

Option 2:

MCur by virtue of a dissertation

Subject to the stipulations of General Regulations G.30 and G.62, the Bachelor Honours degree in Nursing or an equivalent qualification, which includes a Bachelor of Nursing degree and an applicable post-basic qualification, is required for admission. The Master's degree may only be taken in the field of study of the prerequisite degree or equivalent qualification.

(c) Duration

(i) MCur with course work

At least two academic years. Commencement of studies must be discussed beforehand with the Head of Department, as the various fields of study are not offered every year.

(ii) MCur by virtue of a dissertation

At least one academic year.

(d) Curriculum

(i) MCur with course work

The curriculum consists of a major subject, an essay, and Nursing Research Methodology (VNM 800) – the latter compulsory subject exempts candidates who choose this option from Applied Research Methodology (TNM 800) required for all the master's degrees in the Faculty.

Fields of specialisation

Clinical fields (Major subjects):

- (aa) Advanced Medical and Surgical Nursing (GVK 801)
- (bb) Advanced Obstetrical and Neonatal Nursing (VGK 802)
- (cc) Advanced Psychiatric Nursing (VGK 803)
- (dd) Advanced Community Nursing (VGK 804)
- (ee) Advanced Emergency Nursing (VGK 805)
- (ff) Advanced Paediatric Nursing (VGK 806)
- (gg) Advanced Neonatal Nursing (VGK 807)
- (hh) Advanced Women's Health (VGK 808)
- (ii) Curative Primary Care (VGK 809)

Non-clinical fields (Major subjects):

- (aa) VPB 800 Advanced Nursing Management 800
- (bb) VOZ 800 Advanced Nursing Education 8000

Essay (VGK 891)

Nursing Research Methodology (VNM 800)

(ii) MCur by virtue of a dissertation

A student will qualify for conferment of the master's degree after submitting and passing a dissertation (VGK 890) at least three years after completion of the prerequisite bachelor's degree, and one year after completion of the

prerequisite honours degree. The dissertation must deal with the field of study of the prerequisite honours degree.

(e) Pass and pass with distinction

(i) MCur with course work

- (aa) At least 50% must be obtained in all the modules individually in order to pass.
- (bb) The degree is conferred with distinction on a student who obtains an average of at least 75% in the major subject and the compulsory subject (VNM 800), and who passes all the relevant practical work.

(ii) MCur by virtue of a dissertation

- (aa) At least 50% has to be obtained in the dissertation in order to pass
- (bb) The degree is conferred with distinction on a student who obtains an average of at least 75% in the dissertation.

M.16 DOCTOR OF NURSING (DCur) (Code 10261001)

Also consult General Regulations.

N.B.: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption may be granted if (TNM 800) Applied Research Methodology 800 has been passed for the MCur degree.)

- (a)** Subject to the stipulations of General Regulations G.54 and G.62, a candidate will only be admitted to the study for the doctor's degree if he or she holds a master's degree.
- (b)** The DCur is conferred by virtue of a thesis (VGK 990) and, unless the Dean decides otherwise, an examination on the field of study covered in the thesis (VGK 900).

III. DEGREES IN RADIOGRAPHY

M.17 BACHELOR OF RADIOGRAPHY (B Rad)

Also consult General Regulations.

Specialisations

- (i) Diagnostics (10137002)
- (ii) Radiation Therapy (10137003)
- (iii) Nuclear Medicine (10137004)

NB: Students who have been admitted to the study for the Bachelor's degree in Radiography in terms of the 1997 regulations, will complete their degree studies in terms of those regulations.

- (a) Requirements for admission**
A matriculation exemption certificate.

Note:

1. Grade 12 Mathematics and Physical Science with a minimum of 50% at higher grade is a requirement. Grade 12 Biology at higher grade will serve as a recommendation for Nuclear Medicine.
2. Candidates must apply for admission to the first year of study, as all candidates will be subject to a selection procedure (Consult General Information).
3. Each student in Radiography must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Radiography immediately after admission to the first year of study.

(b) Nature and duration

The course extends over three academic years, during which period a student will be associated with the Department of Radiographic Sciences at the Pretoria Academic Hospital as a student radiographer. Students must comply with the stipulations of the Health Professions Council of South Africa concerning the required number of practical hours.

Students may apply to complete the first year of study over a period of two years, in which case the choice of subjects will be done in consultation with the Head of Department at the commencement of studies for the BRad degree.

(c) Curriculum

(i) First year of study

- | | | |
|-----|---------|---------------------------|
| (1) | RAN 100 | Radiographic Anatomy 100 |
| (2) | FSG 102 | Physiology 102 |
| (3) | RFI 110 | Radiation Physics 110 |
| (4) | RAW 100 | Radiographic Sciences 100 |

(ii) Second year of study

- | | | |
|-----|---------|--|
| (1) | RAN 280 | Radiographic Anatomy 280 |
| (2) | MTS 200 | Medical Applied Psychology 200 |
| (3) | RFI 210 | Radiation Physics 210 and
and
RFI 211 |
| | | Radiation Physics 211 |
| (4) | RBG 210 | Radiobiology 210 |
| (5) | RAW 201 | Radiographic Sciences 201: Diagnostics |
| | or | |
| | RAW 202 | Radiographic Sciences 202: Radiation Therapy |
| | or | |
| | RAW 203 | Radiographic Sciences 203: Nuclear Medicine |

(iii) Third year of study

- | | | |
|-----|---------|--|
| (1) | RAN 380 | Radiographic Anatomy 380 |
| (2) | AAP 310 | General Anatomical Pathology 310 |
| (3) | RFI 310 | Radiation Physics 310 |
| (4) | RAW 301 | Radiographic Sciences 301: Diagnostics |
| | or | |
| | RAW 302 | Radiographic Sciences 302: Radiation Therapy |
| | or | |
| | RAW 303 | Radiographic Sciences 303: Nuclear Medicine |

(d) Promotion to a subsequent year of study

A student must pass all the courses of the preceding year of study to be admitted to a subsequent year of study.

(e) Examination admission and pass requirements

A minimum year mark of 40% is required for admission to the examination in Radiographic Sciences at 100, 200 and 300 level.

A subminimum of 40% is required in the examination in the written as well as the practical/clinical section of Radiographic Sciences at 100, 200 and 300 level.

(f) Supplementary examinations

Supplementary examinations are granted in terms of the stipulations of the General Regulations in this regard.

(g) Degree with distinction:

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the final examination in Radiation Physics 310 and in Radiographic Sciences 301 or 302 or 303.

M.18 BACHELOR OF RADIOGRAPHY (HONOURS) (BRad)(Hons)

Also consult Gen. Reg. G.18.

NB: Students who have been admitted to the honours degree course with specialisation in Radiographic Nuclear Medicine or Radiographic Therapy according to the 1997 regulations, will complete their degree studies in accordance with those regulations. Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily.

(a) Requirements for admission

- (i) Subject to the stipulations of General Reg. G.62, a candidate for admission to honours degree study must hold the BRad degree, or an equivalent qualification in the specialisation in question, and be registered as a Radiographer with the Health Professions Council of South Africa.
- (ii) A student must also be appointed in a full-time position at an institution approved by the Department for this purpose.

(b) Fields of study and duration:

Diagnostics: General option	one academic year
Diagnostics: Computer Tomography	one academic year
Diagnostics: Angiography	one academic year
Nuclear Medicine	one academic year
Radiation Therapy	one academic year

(c) Curriculum**(i) (aa) Diagnostics General (Code 10247031)**

Major subject:	RSD 701	Radiography 701
Subsidiary subjects:	RAN 700	Radiographic Anatomy 700;
	ANP 703	Anatomical Pathology 703
Essay:	RSK 700	Essay(Rad) 700

- (bb) **Diagnostics Computer Tomography (Code 10247041)**
 Major subject: RSD 702 Radiography 702
 Subsidiary subjects: RAN 700 Radiographic Anatomy 700;
 ANP 703 Anatomical Pathology 703
 Essay: RSK 700 Essay(Rad) 700
- (cc) **Diagnostics Angiography (Code 10247051)**
 Major subject: RSD 703 Radiography 703
 Subsidiary subjects: RAN 700 Radiographic Anatomy 700;
 ANP 703 Anatomical Pathology 703
 Essay: RSK 700 Essay(Rad) 700
- (ii) **Radiation Therapy (Code 10247061)**
 Major subject: RSZ 700 Radiation Therapy 700
 Subsidiary subjects: DSB 700 Dosage Planning 700;
 OKG 700 Oncological Behavioural
 Sciences 700
 Essay: RSK 700 Essay(Rad) 700
- (iii) **Nuclear Medicine (Code 10247021)**
 Major subject: KDE 700 Nuclear Medicine 700
 Subsidiary subjects: RDF 700 Radiopharmacology 700
 INX 700 Instrumentation 700
 Essay: RSK 700 Essay(Rad) 700

(d) Supplementary examinations

Supplementary examinations are granted in a maximum of two courses.

(e) Degree with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the final examination in the major subject as well as in the subsidiary subjects.

M.19 MASTER OF RADIOGRAPHY (MRad)
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Also consult General Regulations.

NB: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if the course has been passed for the BRad(Hons) degree.)

Fields of specialisation

Diagnostics (Code 10257001);
 Nuclear Medicine (Code 10257021);
 Radiation Therapy (Code 10257012)

(a) Requirements for admission

Subject to the stipulations of General Regulation G.62, a candidate will only be admitted to the study for the MRad degree if he or she holds the BRad(Hons) degree.

(b) Duration

The course extends over one academic year.

(c) Curriculum

- (i) A dissertation in the field of Diagnostics (RSD 890) or Nuclear Medicine (KDE 890) or Radiation Therapy (SOZ 890).
- (ii) An examination on the dissertation in the field of Diagnostics (RSD 801) or Nuclear Medicine (KDE 800) or Radiation Therapy (SOZ 801).

(d) Degree with distinction

The degree is conferred with distinction on a student who obtains at least 75% in the examination and for the dissertation.

IV. DEGREES IN OCCUPATIONAL THERAPY AND IN PHYSIOTHERAPY

M.20 BACHELOR OF OCCUPATIONAL THERAPY (BOccTher) (Code 10138001)

Also consult General Regulations.

(a) Requirements for admission

- (i) A matriculation exemption certificate, with Physical Science and Biology at higher grade.
- (ii) In order to retain selection after the final matriculation examination, an average C symbol as well as a C symbol in both Physical Science and Biology will be required.
- (iii) Application must be made for admission to the first year of study as admission is subject to a selection. (Consult General Information.)
- (iv) Students in the first year of study who do not qualify for admission to the second year of study are automatically subjected to selection again.

NB: Each student in Occupational Therapy must apply immediately after admission to the first year of study, to the Registrar of the Health Professions Council of South Africa for registration as a student in Occupational Therapy.

(b) Nature and duration

The course extends over four academic years, during which period a student receives clinical training as a student occupational therapist at an institution approved by the University. Students may extend the first year of study over two years, after consultation with the Head of the Department.

(c) Admission to the examination and pass requirements**(i) Admission to the examination**

A subminimum of 40% is required in the tests as well as in the clinical-practical sections in the following courses:

ART 100 – 302	Occupational Therapy 100 – 302
ART 401 and 402	Occupational Therapy 401 and 402
TMA 100 – 400	Therapeutic Media 100 – 400

(ii) **Pass requirements**

In subjects with a written and a practical/clinical examination, a subminimum of 40% will be required in the written as well as in the practical/clinical sections of the examination.

- (iii) Students who repeat any year of study, but who have passed the subject Occupational Therapy (ART), will retain credit for the subject but will be required to attend lectures and write tests in order to obtain a certificate of satisfactory preparation in the subject in question.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

(d) **First year**

(i) **Curriculum**

Examination Courses

- | | | |
|-----|---------|-----------------------------|
| (1) | ANA 101 | Anatomy 101 |
| (2) | FSG 100 | Physiology 100 |
| (3) | ART 100 | Occupational Therapy 100 |
| (4) | TMA 100 | Therapeutic Media 100 |
| (5) | SLK 102 | Psychology 102 |
| (6) | FIL 182 | Science and World Views 182 |
| (7) | NHS 101 | First Aid Certificate 101 |

(ii) **Supplementary examinations**

Supplementary examinations are granted in terms of the stipulations of the General Regulations.

(e) **Admission to the second year of study**

To be admitted to the second year of study, a student must:

- pass all the courses of the first year of study; and
- acquire a recognised and valid first aid certificate prior to the commencement of the second year of study. The certificate must be submitted to the Faculty Administration.

(f) **Second year**

Curriculum

Examination Courses

- | | | |
|------|---------|---------------------------|
| (1) | KLO 210 | Clinical Topics 210 |
| (2) | KLO 220 | Clinical Topics 220 |
| (3) | SLK 202 | Psychology 202 |
| (4) | ANP 210 | Anatomical Pathology 210 |
| (5) | PSI 200 | Psychiatry 200 |
| (6) | KIN 217 | Kinesiology 217 |
| (7) | MLO 210 | Human Development 210 |
| (8) | ART 201 | Occupational Therapy 201 |
| (9) | ART 202 | Occupational Therapy 202* |
| (10) | TMA 200 | Therapeutic Media 200 |

* Prerequisite: (NHS 101) First Aid Certificate 101.

(g) Admission to the third year of study

A student must pass all the courses of the second year of study to be admitted to the third year of study.

(h) Third year**Curriculum****Examination courses**

- | | | |
|-----|-----------|------------------------------------|
| (1) | IKX 300 | Interpersonal Communication
300 |
| (2) | GKS 300 | Community Study 300 |
| (3) | ART 301** | Occupational Therapy 301 |
| (4) | ART 302** | Occupational Therapy 302 |
| (5) | TMA 300** | Therapeutic Media 300 |

** Students who, according to the Head of Department and recommended by the lecturer concerned, have prepared themselves adequately and also achieved a year mark of at least 65% in the subject in question, may be promoted in a course without writing the examination, with the proviso that such students will only receive credit for a promoted course if an examination in a subsequent course is passed in the specific subject.

(i) Admission to the fourth year of study

A student must pass all the courses of the third year of study to be admitted to the fourth year of study.

(j) Fourth year of study**(i) Curriculum**

- | | | |
|-----|---------|--------------------------|
| (1) | ART 401 | Occupational Therapy 401 |
| (2) | ART 402 | Occupational Therapy 402 |
| (3) | TMA 400 | Therapeutic Media 400 |
| (4) | BMT 410 | Management Methods 410 |

(ii) A final-year student who has failed one of the year courses but who has passed all other subjects, may be admitted to a special examination in the year course in question at the end of the first semester of the subsequent year, after satisfactory attendance of the required lectures and clinical work.

(k) Degree with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the three major subjects (year courses) in the final year of study.

M.21 BACHELOR OF OCCUPATIONAL THERAPY (HONOURS) (BOccTher(Hons))

Suspended until further notice.

M.22 MASTER OF OCCUPATIONAL THERAPY (MOccTher) (Code 10258001)

Also consult General Regulations.

NB: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if (BSN 701) Biostatistics and Research Methodology 701 has been passed for the BOccTher(Hons) degree.)

(a) Admission requirements

- (i) Subject to the stipulations of General Regulation G.62, the Bachelor's degree in Occupational Therapy or an equivalent qualification is required for admission, as well as registration as Occupational Therapist with the Health Professions Council of South Africa.
- (ii) A student must hold at least a part-time position deemed applicable to the particular field of study by the Head of Department.

(b) Duration

At least two academic years. Commencement of studies must be discussed with the Head of Department, as not all the specialisations are presented every year.

(c) Curricula

(1) MOccTher with course work:

The curriculum comprises a major subject and prerequisite courses.

Fields of specialisation

(i) Hand Therapy (Code 10258011)

Major subject:	ART 801	Occupational Therapy 801
Essay:	ART 891	Essay: OccTher 891
Prerequisite courses:	AAN 802	Occupational Therapeutic Anatomy 802;
	FSG 881	Physiology 881;
	ANP 891	Anatomical Pathology 891;
	ATP 800	Theory in Occupational Therapy Practice 800.

(ii) Neurology (Code 10258021)

Major subject:	ART 802	Occupational Therapy 802
Essay:	ART 891	Essay: OccTher 891
Prerequisite courses:	AAN 803	Occupational Therapeutic Anatomy 803;
	FSG 881	Physiology 881; ANP 891 Anatomical Pathology 891;
	ANT 800	Theory in Occupational Therapy Practice 800

(iii) Paediatrics (Code 10258031)

Major subject:	ART 803	Occupational Therapy 803
Essay:	ART 891	Essay: OccTher 891
Prerequisite courses:	AAN 803	Occupational Therapeutic Anatomy 803;
	FSG 881	Physiology 881;
	ANP 891	Anatomical Pathology 891;
	ANT 800	Theory in Occupational Therapy Practice 800

(iv) Psychiatry (Code 10258041)

Major subject:	ART 804	Occupational Therapy 804
Essay:	ART 891	Essay: OccTher 891
Prerequisite courses:	PGP 800	Psychopathology 800
	FSG 881	Physiology 881
	AAN 803	Occupational Therapeutic Anatomy 803
	GRA 800	Groups in Occupational Therapy 800;
	ATP 800	Theory in Occupational Therapy Practice 800

(v) Activity Theory: (Code 10258051)

Major subject:	ART 805	Occupational Therapy 805
Essay:	ART 891	Essay: OccTher 891
Prerequisite courses:	SOS 810	Sociology 810;
	FSG 881	Physiology 881;
	AAN 803	Occupational Therapeutic Anatomy 803;
	ATP 800	Theory in Occupational Therapy Practice 800

(2) MOccTher by virtue of research : (Code 10258001)**Curriculum:**

- (aa) Dissertation (ART 890) on an approved topic based on research.
- (bb) Successful completion of the courses (ART 800) Occupational Therapy 800 and (ATP 800) Theory in Occupational Therapy Practice 800.

(d) Examination**MOccTher with course work**

- (i) A year mark of at least 50% is required for admission to the examination in the major subject.
- (ii) The sequence of the examinations in the prerequisite subjects will be determined by the Head of Department according to the major subject followed by the student.
- (iii) A subminimum of 40% in the examination is required in the prerequisite subjects as well as in the major subject, with a final mark of at least 50% to pass.

MOccTher by virtue of a dissertation

The minimum pass mark for the dissertation is 50%.

(e) Degree with distinction**MOccTher with course work**

The degree is conferred with distinction on a student who has obtained at least 75% in the major subject, and an average of at least 65% in the prerequisite subjects.

MOccTher with dissertation

The degree is conferred with distinction on a student who has obtained at least 75% for the dissertation and an average of at least 65% in the courses (ART 800) Occupational Therapy 800 and (ATP 800) Theory in Occupational Therapy Practice 800. TNM 800 must be attended satisfactorily.

M.23 PHILOSOPHIAE DOCTOR (PhD) (Code 10260321)

Also consult General Regulations.

NB: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if (TNM 800) Applied Research Methodology 800 has been passed for the MOccTher degree.)

- (a) Subject to the stipulations of General Regulations G.45 and G.62, a candidate for admission to the study for the doctor's degree must hold a master's degree.
- (b) The PhD degree with specialisation in Occupational Therapy is conferred by virtue of a thesis and, unless the Dean decides otherwise, an examination (code ART 900) pertaining to the field of study chosen for the thesis.
- (c) The thesis (ART 990) must deal with a problem in a field of Occupational Therapy; it must give a synopsis of the literature on the topic and contain a description of the observations made and experiments done by the student as well as a discussion of the conclusions reached.

M.24 DOCTOR OF OCCUPATIONAL THERAPY (DOccTher) (Code 10268001)

Also consult General Regulations.

NB: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if (TNM 800) Applied Research Methodology 800 has been passed for the MOccTher degree.)

The DOccTher degree is conferred by virtue of a thesis (ART 990) and, unless the Dean decides otherwise, an examination (ART 900) on the field of study pertaining to the thesis.

M.25 BACHELOR OF PHYSIOTHERAPY (BPhysT) (Code 10138101)

Also consult General Regulations G.1 to G.15.

(a) Requirements for admission

- (i) Only selected candidates will be admitted. A matriculation exemption certificate is required – see General Information as well as General Regulation G.1.
- (ii) Students who have not passed in sufficient first-year courses for admission to the second year of study are automatically be subjected to a selection procedure again.

NB: Each student in Physiotherapy must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Physiotherapy immediately after admission to the first year of study.

(b) Nature and duration

The course extends over four academic years, during which period a student will receive clinical training as a student physiotherapist at an institution approved by the University. Students may extend the first two years of study over three years, in which case the choice of subjects per year must be done in consultation with the Head of Department.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

(c) First year**(i) Curriculum****Examination courses**

			Requirements
(1)	PHY 131	General Physics 131	Par 1.2
(2)	CMY 151	First course in Chemistry 151	Par 1.2
(3)	SOS 110	Sociology 110	
and	SOS 120	Sociology 120	SOS 110 GS
(4)	FTP 100	Physiotherapy 100	
(5)	FIL 182	Science and World Views 182	
(6)	ANA 101	Anatomy 101	

(ii) Examination admission and pass requirements

A minimum year mark of 40% is required for admission to the examination in FTP 100. A subminimum of 40% is required in the theoretical as well as in the practical examination. A minimum of 50% is required as a final mark in order to pass in the course.

With regard to academic and clinical work, but also with regard to satisfactory attendance of practical and clinical training, students must comply with all the requirements during the year, as set by the Head of Department, or be refused admission to the examination in the subject in question.

(iii) Certificate of satisfactory preparation

Students repeating any year of study, who have passed the course Physiotherapy in the particular year, will retain credit for the subject, but will be required to attend lectures and practical work and write tests to obtain a certificate of satisfactory preparation in the subject in question.

(iv) Supplementary examinations

A student will be admitted to a supplementary examination in FTP 100 if

- a final mark of 40 – 49% has been obtained; or
- a pass mark has been obtained, but not the required subminimum in the examination in FTP 100 or in sections thereof.

(d) Admission to the second year of study

A student must pass all the first-year subjects for admission to the second year of study.

(e) Second year of study

(i) Curriculum Examination Courses		Requirements
(1)	FSG 100	Physiology 100
(2)	SOS 210	Sociology 210 and
	SOS 220	Sociology 220
(3)	FTP 201	Physiotherapy 201 (Biomechanics)
(4)	FTP 202	Physiotherapy 202 (Electro-Biomechanics)
(5)	ANP 210	Anatomical Pathology 210
(6)	KGN 210	Clinical Medicine 210
(7)	POL 200	Professional Development/Leadership 200

(ii) Practical Nursing

Practical nursing for a continuous 40-hour working week must be completed satisfactorily at the Pretoria Academic Hospital complex during the July holidays and documentary proof to this effect must be submitted.

(iii) Examination admission and pass requirements

A semester or year mark of at least 40% is required for admission to the examination in Physiotherapy 201 (Biomechanics), Physiotherapy 202 (Electrobiomechanics), Clinical Medicine 210 and Professional Development/Leadership 200. A subminimum of 40% is required in the theoretical as well as the practical examination of Physiotherapy 201 (Biomechanics), Physiotherapy 202 (Electrobiomechanics) and Professional Development/Leadership 200. For Clinical Medicine 210, a subminimum of 40% is required in the examination. A final mark of at least 50% is required in order to pass.

With regard to academic and clinical work, but also with regard to satisfactory attendance of practical and clinical training, students must comply with all the requirements during the year, as set by the Head of Department, or be refused admission to the examination in the subject in question.

(iv) Supplementary examinations

A student will be admitted to a supplementary examination in Physiotherapy 201 (Biomechanics), Physiotherapy 202 (Electrobiomechanics), Professional Development/Leadership 200 and Clinical Medicine 210, if:

- a final mark of 40-49% has been obtained; or
- a pass mark has been obtained, but the required subminimum has not been obtained in the examination section of the courses in question or in subsections thereof.

(f) Admission to the third year of study

A student must pass all the courses of the second year of study for admission to the third year of study.

(g) Third year

(i) Curriculum Examination Courses	
(1)	FTP 300 Physiotherapy 300
(2)	TFT 300 Applied Physiotherapy 300
(3)	KGN 312 Clinical Medicine 312 and

	KGN 322	Clinical Medicine 322
(4)	POL 300	Professional Development/Leadership 300
(5)	FAR 307	Pharmacology 307

(ii) **Examination admission and pass requirements**

A semester or year mark of at least 40% is required in Physiotherapy 300, Clinical Medicine 312 and 322 and Professional Development/Leadership 300 for admission to the examination. To be admitted to the examination in Applied Physiotherapy 300, at least 40% must be obtained in the theory as well as in the clinical progress reports. A subminimum of 40% is required in the theory as well as in the practical/clinical component of Physiotherapy 300, Applied Physiotherapy 300 and Professional Development/Leadership 300. For Clinical Medicine 312 and 322, a subminimum of 40% is required in the examination. A final mark of at least 50% is required to pass.

(iii) **Supplementary examinations**

A student will be admitted to a supplementary examination in Physiotherapy 300, Clinical Medicine 312 and 322 and Professional Development/Leadership 300, if

- A final mark of 40% – 49% has been obtained;
- A pass mark has been obtained, but the required subminimum in the examination section or subdivisions thereof, has not been achieved.

(h) **Admission to the fourth year of study**

A student must pass all the courses of the third year of study for admission to the fourth year of study.

(i) **Fourth year of study**

(i) **Curriculum**

Examination Courses

(1)	FTP 400	Physiotherapy 400
(2)	FTP 401	Physiotherapy Research 401
(3)	POL 400	Professional Development/Leadership 400

(ii) **Examination admission and pass requirements**

A minimum year mark of 40% is required for admission to the examination in Physiotherapy 400 and Professional Development/Leadership 400. In addition, a minimum of 40% is required in the clinical progress reports. A subminimum of 40% is required in the theory as well as in the clinical/practical component of Physiotherapy 400 and Professional Development/Leadership 400, with a final mark of at least 50% to pass.

To pass in Physiotherapy Research 401, a student must obtain at least 50% in the essay. The format of the essay will be determined by the Head of Department, subject to the stipulations of the General Regulations (G-regulations) in this regard.

With regard to academic and clinical work, but also with regard to satisfactory attendance of practical and clinical training, students must comply with all the requirements during the year, as set by the Head of Department, or be refused admission to the examination in the subject in question.

(iii) **Special Examination**

The student gets yet another chance to sit the examination.

A special examination in Physiotherapy 400 and Professional Development/Leadership 400 may only take place after six months have elapsed since the examination in which the student failed. During this period, the student must receive further practical instruction in the clinical training components and obtain a semester mark of at least 50%. A student will not be admitted to a special examination more than twice.

If a student does not obtain the required pass mark in the essay, an amended essay must be submitted at a later stage for examination purposes, in order to provide the student with another opportunity to comply with all the requirements for the degree.

(iv) **Ancillary examination**

After the conclusion of the examination in Physiotherapy 400 and before the results are announced, the examiners may, with a view to the calculation of a final mark, summon a student for an ancillary examination in the theory and/or clinical component of Physiotherapy 400.

(j) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained at least 75% in each of the major subjects, namely Physiotherapy 400, Physiotherapy Research 401 and Professional Development/Leadership 400.

M.26 MASTER OF PHYSIOTHERAPY (MPhysT)
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Also consult General Regulations.

(a) **Requirements for admission**

- (i) Subject to the stipulations of General Regulation G.62, the BPhysT degree or an equivalent qualification is required, as well as registration as a physiotherapist with the Health Professions Council of South Africa.
- (ii) For the MPhysT degree, students must also hold at least a part-time position, deemed applicable for master's degree studies by the Head of Department.
- (iii) Candidates will be required to provide proof of the successful completion of applicable postgraduate courses in clinical fields of specialisation, for example Orthopaedic Manual Therapy 1, prior to the conferment of the MPhysT degree.
- (iv) A candidate who applies for admission to the MPhysT degree studies by virtue of research (Code 10258101), must comply with the following requirements:
 - (aa) A pass in a professional examination at the Physiotherapy College or equivalent status in the clinical field in which the studies will be undertaken.
 - (bb) Continued training courses presented in the research field, at national level, as prescribed by the South African Physiotherapy Association.
- (v) Students must participate in formal departmental training programmes for a minimum of 60 hours per annum.
- (vi) All the courses of the various fields of specialisation will not necessarily be presented each year. The closing date for applications is 31 October annually.

(b) **Duration**

At least two academic years.

(c) Curricula**(1) MPhysT with course work:**

The curriculum consists of a major subject and prerequisite courses. Students who registered for the first time for the MPhysT degree study with course work in 1997, will follow the courses as prescribed in the 1998 publication.

Fields of specialisation**(i) Management (Code 10258102)**

Major subject:	FTP 801	Physiotherapy: Management 801
Dissertation:	FTP 982	Physiotherapy: Dissertation 892
Prerequisite courses:	TNM 800	Applied Research Methodology and a choice of four from the following:
	GGW 701	Medical Health Legislation 701;
	GGA 701	Medical Health Administration 701;
	OGH 701	Environmental Health 701;
	EPI 701	Epidemiology 701;
	FBS 101	Financial Management 101;
	GSI 701	Health Informatics 701;
	BDO 703	Industrial and Organisational Psychology 703.

(ii) Biomechanics (Code 10258112)

Major subject:	FTP 802	Physiotherapy: Biomechanics 802
Dissertation:	FTP 892	Physiotherapy: Dissertation 892
Prerequisite courses:	FTP 870	Physiotherapy 870;
	TNM 800	Applied Research Methodology 800 and
	FSG 808	Physiology 808; a choice of three from the following:
	FSA 873	Anatomy 873;
	APY 801	Anatomical Pathology 801;
	BFK 802	Biophysics 802;
	BCH 802	Biochemistry 802.

(iii) Electrobiomechanics (Code 10258122)

Major subject:	FTP 871	Physiotherapy: Electrobiomechanics 871
Dissertation:	FTP 892	Physiotherapy: Dissertation 892
Prerequisite courses:	FTP 876	Physiotherapy 876;
	TNM 800	Applied Research Methodology 800 and
	FSG 808	Physiology 808; a choice of three from the following:
	FSA 873	Anatomy 873;
	APY 801	Anatomical Pathology 801;
	BFK 802	Biophysics 802;
	BCH 802	Biochemistry 802.

(iv) Surgery (Code 10258132)

Major subject:	FTP 803	Physiotherapy: Surgery 803
Dissertation:	FTP 892	Physiotherapy: Dissertation 892
Prerequisite courses:	FTP 877	Physiotherapy 877;
	FSA 871	Anatomy 871;
	FSG 878	Physiology 878;

CHR 802 Surgery 802;
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(v) **Mental Health (Code 10258142)**

Major subject: FTP 804 Physiotherapy: Mental Health 804
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: FTP 878 Physiotherapy 878;
 TNM 800 Applied Research Methodology 800; a
 choice of three from the following:
 SLK 870 Psychology 870;
 FSA 872 Anatomy 872;
 FSG 876 Physiology 876;
 FAR 871 Pharmacology 871

(vi) **Community Health (Code 10258152)**

Major subject: FTP 805 Physiotherapy: Community Health 805
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: FTP 879 Physiotherapy 879;
 TNM 800 Applied Research Methodology 800 and a
 choice of four from the following:
 GGW 701 Medical Health Legislation 701;
 EPI 701 Epidemiology 701;
 OGH 701 Environmental Health 701;
 GGA 701 Medical Health Administration 701;
 MSO 100 Medical Sociology 100

(vii) **Internal Medicine (Code 10258162)**

Major subject: FTP 806 Physiotherapy: Internal Medicine 806
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 801 Physiotherapy 801;
 FSA 808 Anatomy 808;
 FSG 877 Physiology 877
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(viii) **Paediatrics (Code 10258172)**

Major subject: FTP 807 Physiotherapy: Paediatrics 807
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 802 Physiotherapy 802;
 FSA 870 Anatomy 870;
 FSG 874 Physiology 874;
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(ix) **Neurology/Neuro-Surgery (Code 10258232)**

Major subject: FTP 875 Physiotherapy: Neurology/Neuro-Surgery
 875
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 803 Physiotherapy 803;
 FSA 807 Anatomy 807;
 FSG 879 Physiology 879;

TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(x) **Obstetrics and Gynaecology (Code 10258182)**

Major subject: FTP 808 Physiotherapy: Obstetrics and
 Gynaecology 808
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 807 Physiotherapy 807;
 FSA 809 Anatomy 809;
 FSG 871 Physiology 871;
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(xi) **Education (Code 10258192)**

Major subject: FTP 809 Physiotherapy: Education 809
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: MHO 700 Human Resource Development 700,
 DID 400 Didactics 400;
 LTR 410 Learning Theory 410;
 OLM 410 Teaching and Learning Aids 410;
 TVO 400 Tertiary Subject Didactics 400;
 NME 710
 &720 Research Methodology 710, 720,
 (NME 710, 720 substitutes the compulsory course
 TNM 800)

(xii) **Orthopaedics (Code 10258202)**

Major subject: FTP 874 Physiotherapy: Orthopaedics 874
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 804 Physiotherapy 804;
 FSA 806 Anatomy 806;
 FSG 872 Physiology 872;
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(xiii) **Orthopaedic Manual Therapy (Code 10258212)**

Major subject: FTP 872 Physiotherapy: Orthopaedic Manual
 Therapy 872
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 805 Physiotherapy 805;
 FSA 876 Anatomy 876;
 FSG 873 Physiology 873;
 TNM 800 Applied Research Methodology 800;
 FAR 871 Pharmacology 871

(xiv) **Sports Medicine (Code 10258222)**

Major subject: FTP 873 Physiotherapy: Sports Medicine 873
 Dissertation: FTP 892 Physiotherapy: Dissertation 892
 Prerequisite courses: PHT 806 Physiotherapy 806;
 FSA 875 Anatomy 875;

FSG 875 Physiology 875;
TNM 800 Applied Research Methodology 800;
FAR 871 Pharmacology 871

(2) MPhysT by virtue of research (Code 10258101)

N.B.: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily.

Dissertation

The master's degree is conferred by virtue of a dissertation (FTP 890), on an approved topic based on research.

(d) Examinations

MPhysT with course work

- (i) The examinations in the prerequisite courses will take place prior to or concurrently with the major subject as determined by the Head of Department.
- (ii) The examination will consist of a written and a clinical as well as an oral component.
- (iii) A minimum year mark of 50% is required for admission to the examination. A subminimum of 40% is required in each division in the examination. The final pass mark is at least 50%.
- (iv) A student will have another opportunity of writing the examination in the major subject after a period of six months has elapsed since the original examination in which he or she failed.
- (v) Students must submit a manuscript which has been accepted for publishing in a recognised professional (subsidised) periodical.

(e) Degree with distinction

(i) MPhysT with course work

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the major subject and the prerequisite courses, and at least 60% in any prescribed course.

(ii) MPhysT by virtue of research

To obtain the degree with distinction, at least 75% is required in the dissertation.

<p>M.27 PHILOSOPHIAE DOCTOR (PhD) (Code 10260451)</p>

Specialisation: Physiotherapy

Also consult General Regulations.

NB: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if (TNM 800) Applied Research Methodology 800 has been passed for the MPhysT degree.)

(a) Requirements for admission

A Master's degree in Physiotherapy or an equivalent qualification.

- (b) The PhD degree with specialisation in Physiotherapy is conferred by virtue of a thesis (FTP 990) and, unless the Dean decides otherwise, an examination (FTP 900) pertaining to the field of study of the thesis.
- (c) The doctoral examination will consist of an oral and/or a written component on the field of the thesis as well as those subdivisions of the field of study on which the thesis is based.

V. DEGREES IN DIETETICS

In a course listed in the prerequisites column which is followed by the symbol GS, a combined mark of at least 40% must be obtained prior to admission to the course listed in the second column. However, a course in the second column without any symbol must be passed prior to admission to the course in the first column. A parallel course must be taken prior to, or concurrently with the course in the second column.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

Courses offered by the Human Nutrition Division

Code	Course	Prerequisite	Parallel Course
DTE 310	Diet Therapy 310	VDG 230, 240	–
DTE 321	Diet Therapy 321	DTE 310	–
DTE 480	Diet Therapy 480	DTE 321; FLG 312; FAR 305	VDG 480
DTE 481	Diet Therapy 481	DTE 480	VDG 481, VDB 481
VDG 230	Human Nutrition 230	–	FLG 211, 212; BCM 216, 217
VDG 240	Human Nutrition 240	FLG 211, 212 GS BCM 216,217 GS	FLG 221, 222 BCM 226, 227
VDG 480	Applied Nutrition 480	VDG 230, 240; BCM 216, 217, 226, 227; FAR 305; FLG 312, 321	DTE 480
VDG 481	Applied Nutrition 481	VDG 480	DTE 481, VDB 481
VDG 482	Project Nutrition 482	FLG 312,321 GS VLG 310 en 320 GS, DTE 310 en 321 GS, FAR 305 GS	–
NAV 480	Research Project 480	As for VDG 482	–
SEM 223	Seminar 223	–	–
SEM 482	Seminar 482	Final-year status	–
VDB 481	Food Service Management 481	VDS 320, VDB 320	VDG 481, DTE 481
VKW 340	Vacation Work 340	–	–

COURSES OFFERED BY OTHER DEPARTMENTS

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

Code	Course	Prerequisite	Parallel Course
BCM 216	Proteins and Enzymes 216	MLB 111 GS; CMY 112 GS, 122 GS	–
BCM 217	Carbohydrate Metabolism 217	MLB 111 GS; CMY 112 GS, 122 GS	–
BCM 226	Lipid and Nitrogen Metabolism 226	BCM 217 GS	–
BCM 227	Biosynthesis of Macro Molecules 227	BCM 217 GS	–
CMY 112	First course in Chemistry 112	Par 1.2	–
CMY 122	General Chemistry 122	CMY 112 GS	–
ERG 110	Ergonomics 110	–	–
MLB 111	Molecular and Cell Biology 111	Par 1.2	–
PHY 131	First course in Physics 131	Par 1.2	–
FLG 211	Introductory and Neuro-Physiology 211	MLB 111 GS; CMY 112 GS, 122 GS; PHY 131 GS	FLG 212
FLG 212	Circulatory Physiology 212	As for FLG 211	FLG 211
FLG 221	Lung and Renal Physiology, Acid-base equilibrium and Temperature 221	FLG 211 GS, 212 GS	FLG 222
FLG 222	Digestion, Endocrinology and Reproductive Systems 222	FLG 211 GS, 212 GS, 221 GS	FLG 221
FLG 312	Developmental Physiology 312	CMY 112, 122 GS, FLG 221 GS, 222 GS, BCM 216 GS, 217 GS, 226 GS, 227 GS	–
FLG 321	Immunology 321	FLG 221 GS, 222 GS, 312 GS, BCM 216 GS, 217 GS, 226 GS, 227 GS	–

MBY 120	Introductory Microbiology 120	MLB 111 GS, CMY 112 GS Par 1.2	–
SEM 180	Seminar 180	–	–
SLK 102	Psychology 102	–	–
SLK 202	Psychology 202	SLK 102	–
STK 110	Statistics 110	–	–
FAR 305	Pharmacology 305	–	–
VDG 120	Nutrition 120	–	–
VDS 110	Food 110	–	–
VDS 210	Food 210	VDS 110	–
VDS 221	Food 221	VDS 110	–
VDS 320	Food 320	VDS 210, 221; VDG 120	–
VDB 320	Food Service Management 320	VDS 210, 221	VDS 320
VLG 310	Extension 310	3rd-year status	–
VLG 320	Extension 320	VLG 310 GS	–

M.28 BACHELOR OF DIETETICS (BDietetics) (Code 10139001)
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Also consult General Regulation G.1 to G.15.

(a) Requirements for admission

A matriculation exemption certificate with at least 50% at higher grade in both Mathematics and Physical Science. Only selected candidates will be admitted.

(b) Nature and duration

The course extends over four academic years (306 credits) during which period a student receives practical training as a student dietician at an institution or institutions approved by the University.

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

(c) Curriculum (294 credits and 30 weeks of practice training)

(i) **First year of study** (85 credits)

First semester		Credits
CMY 112	First course in Chemistry 131	11
PHY 131	General Physics 131	11
MLB 111	Molecular and Cell Biology 111	11

VDS 110	Food 110	6
ERG 110	Ergonomics 110	<u>5</u>
		44
Second semester		Credits
CMY 122	General Chemistry 141	11
MBY 120	Introductory Microbiology 120	11
VDG 120	Nutrition 120	6
VDS 221	Food 221	9
SEM 180	Seminar 180	<u>4</u>
		41
 (ii) Second year of study (86 credits)		
First semester		Credits
FLG 211	Introductory and Neuro-Physiology 211	
and		
FLG 212	Circulatory Physiology 212	12
BCM 216	Proteins and Enzymes 216	
and		
BCM 217	Carbohydrate Metabolism 217	11
STK 110	Statistics 110	6
SLK 102	Psychology 102	6
VDG 230	Human Nutrition 230	<u>8</u>
		43
Second semester		Credits
FLG 221	Lung and Renal Physiology, Acid-base Equilibrium and Temperature 221	
and		
FLG 222	Digestion, Endocrinology and Reproductive System 222	12
BCM 226	Lipid and Nitrogen Metabolism 226	
and		
BCM 227	Biosynthesis of Macro Molecules 227	11
SLK 102	Psychology 102	6
VDG 240	Human Nutrition 240	8
SEM 223	Seminar 223	<u>6</u>
		43
 (iii) Third year of study (77 credits)		
First semester		Credits
FLG 312	Developmental Physiology 312	4
FAR 305	Pharmacology 305	4
SLK 202	Psychology 202	5
VLG 310	Extension 310	5
VDS 210	Food 210	9
DTE 310	Diet Therapy 310	<u>8</u>
		35
Second semester		Credits
FLG 321	Immunology 321	2
FAR 305	Pharmacology 305	4

SLK 202	Psychology 202	5
VLG 320	Extension 320	5
VDS 320	Food 320	12
VDB 320	Food Service Management 320	11
DTE 321	Diet Therapy 321	3
VKW 340	Vacation Work 340	-
		<u>47</u>

- (iv) **Fourth year of study** (46 credits and 20 weeks of practice training)

First semester		Credits
VDG 480	Applied Nutrition 480	14
DTE 480	Diet Therapy 480	16
SEM 482	Seminar 482	5
VDG 482	Project Nutrition 482	4
NAV 480	Research Project 480	7
		<u>46</u>

Second semester

VDG 481	Applied Nutrition 481
DTE 481	Diet Therapy 481
VDB 481	Food Service Management 481

(These three courses must be taken simultaneously)

- (d) (i) Each student in Dietetics must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Dietetics immediately after admission to the first year of study.
- (ii) Students must work under the supervision of a dietician at a hospital approved by the University, for at least 4 weeks of applicable vacation work during the University holidays following the first semester of the third year and before the commencement of the fourth year.
- (e) **Special examination**
A student who fails a maximum of two courses in the final year, may be admitted to an examination in these courses at the end of the first semester of the subsequent year, provided that a final mark (examination mark plus semester mark) of at least 40% has been obtained in the courses in question.
- (f) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the following courses: VDG 480 and 481, DTE 480 and 481, VDS 320 and in VDB 320 and VDB 481.

<p>M.29 BACHELOR OF DIETETICS (HONOURS) (BDietetics(Hons)) (Code 10240001)</p>
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Also consult General Regulations.

- (a) **Requirements for admission:**
A BDietetics degree.

(b) Duration

One year of full-time study or a maximum of 5 semesters of part-time study.

(c) Curriculum

A student chooses honours subjects of 40 credits in total, in addition to (NME 713, 714) Research Methodology 713, 714 (or a similar subject) and other subsidiary subjects, in consultation with the Head of Department, and depending on the prerequisites and field of specialisation.

Before the degree is conferred, Statistics 110 or a similar course must be passed.

(d) Degree with distinction

The degree is conferred with distinction on a student who has obtained a weighted average of at least 75% in the course.

M.30 MASTER OF DIETETICS (MDietetics) (Code 10259001)
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Also consult General Regulations.

(a) Admission requirements

- (i) Subject to the stipulations of General Regulation G.62, the minimum requirement is a Bachelor's degree in Dietetics, as well as registration as a dietician with the Health Professions Council of South Africa.
- (ii) At least one year of full-time practical experience after acquiring the qualification in terms of which admission to master's degree study is sought.
- (iii) Students are selected on the grounds of previous academic achievement. An average of at least 60% in all the undergraduate courses is required.

(b) Duration

A maximum period of four years.

(c) Curriculum

MDietetics by virtue of research (Code 10259001)

- (i) Students must hold a recognised honours degree in Dietetics/Human Nutrition.
- (ii) (TNM 800) Applied Research Methodology 800 or an equivalent course must be passed.
- (iii) The master's degree is conferred by virtue of a dissertation (DEK 890) on an approved topic based on research. A minimum pass mark of 50% is required in the dissertation.
- (iv) **Degree with distinction**
The degree is conferred with distinction on a student who obtains at least 75% in the dissertation.

MDietetics (course work) (Code 10259002)

- (i) Students must hold a recognised Bachelor's degree in Dietetics/Human Nutrition.

- (ii) (TNM 800) Applied Research Methodology or an equivalent course must be passed.
- (iii) (DEK 802) Dietetics: Seminar Meetings 802
30 Hours of scheduled seminar activities.
Topics will be evaluated in consultation with the Head: Human Nutrition Division; written evaluation
(DEK 803) Literature Studies 803
A subminimum of 50% is required in the examination (course work and in literature studies). A minimum final mark of 50% is required to pass.
- (iv) (DEK 895) Essay: Dietetics
A minimum of 50% is required to pass in the essay.

(d) Degree with distinction

The degree is conferred with distinction on a student who has obtained at least 75% in the course work and the essay.

M.31 PHILOSOPHIAE DOCTOR (PhD) (Code 10263061)

Also consult General Regulations.

N.B.: Students must register for (TNM 800) Applied Research Methodology 800 and attend the course satisfactorily. (Exemption will be granted if (TNM 800) Applied Research Methodology 800 has been passed for the Master's degree.)

Field of specialisation: Dietetics

(DEK 900) Dietetics Examination 900 and (DEK 990) Thesis 990.

M.32 DOCTOR OF SCIENCE (DSc) (Code 10262001)

Field of specialisation: Dietetics

The degree is conferred by virtue of publications.
Consult General Regulation G.56.

VI. POSTGRADUATE DIPLOMAS

M.33

- A. POSTGRADUATE DIPLOMA IN TROPICAL MEDICINE AND HEALTH (DTM&H) (Code 10220063)**
- B. POSTGRADUATE DIPLOMA IN PUBLIC HEALTH (DPH) (Code 10220093)**
- C. POSTGRADUATE DIPLOMA IN HEALTH SYSTEMS MANAGEMENT (DHSM) (Code 10220073)**

D. POSTGRADUATE DIPLOMA IN OCCUPATIONAL MEDICINE AND HEALTH: (DOMH) (Code 10220083)

Also consult General Regulations.

REQUIREMENTS AND REGULATIONS COMMON TO ALL THESE DIPLOMAS

(a) Requirements for admission

Students must be in possession of the MBChB degree or an equivalent qualification for at least one year.

(b) Duration

The Diploma courses can only be taken on a part-time basis and the training will extend over at least two academic years, except for the DTM&H which will extend over one academic year only.

(c) Curriculum

A curriculum comprises prescribed modules and/or an essay compiled in conjunction with the Head of Department. Details regarding the curriculum and syllabuses are published in a brochure which is available on request from the Head of Department.

(d) Examinations

Students must attend all lectures and practical classes to the satisfaction of the Head of Department before they will be admitted to the examinations. Written, oral and/or practical examinations must be passed in all the subjects.

(e) Pass requirements

- (i) The minimum pass mark in modules is 50%.
- (ii) Only with the approval of the Dean, on the recommendation of the Head of Department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).
- (iii) A supplementary examination in a module is arranged in conjunction with the Head of Department.

(f) Diploma with distinction:

A diploma is awarded with distinction to a student who has obtained an average of at least 75% in all the modules.

A. POSTGRADUATE DIPLOMA IN TROPICAL MEDICINE AND HEALTH (DTM&H) (Code 10220063)

Curriculum: See M.33 (c).

B. POSTGRADUATE DIPLOMA IN PUBLIC HEALTH (DPH) (Code 10220093)

Curriculum: See M.33 (c).

**C. POSTGRADUATE DIPLOMA IN HEALTH SYSTEMS MANAGEMENT (DHSM)
(Code 10220073)**

Curriculum: See M.33 (c).

**D. POSTGRADUATE DIPLOMA IN OCCUPATIONAL MEDICINE AND HEALTH
(DOMH) (Code 10220083)**

Curriculum: See M.33 (c).

**E. POSTGRADUATE DIPLOMA IN DIETETICS
(Code 10220121)**

Suspended until further notice.

**M.34 POSTGRADUATE DIPLOMA IN VOCATIONAL REHABILITATION (DVR)
(Code 10220141)**

(a) Admission requirements

- (i) Subject to the stipulations of General Regulation G.62, the BOccTher degree or an equivalent qualification as well as registration as an Occupational Therapist with the Health Professions Council of South Africa is required for admission.
- (ii) Full-time clinical experience of a least one year after acquiring the Bachelor's degree in Occupational Therapy or an equivalent qualification, or an equivalent period of part-time clinical experience at an institution recognised by the University for this purpose.

(b) Duration

At least one academic year. As the course is only offered every second year, commencement of study must be discussed with the Head of Department.

(c) Curriculum

The curriculum consists of the following major and prerequisite subjects:

Major:	BRH 700	Vocational Rehabilitation 700
Prerequisite subjects:	GRA 701	Groups in Occupational Therapy C.S 701
	WSD 701	Work Study 701
	FIA 702	Financial Administration 702

(d) Examinations

The sequence of the examinations for the prerequisite subjects will be determined by the Head of the Department, depending on the candidate's choice of a major subject.

(e) Diploma with distinction

The diploma is awarded with distinction to a student who has obtained an average of at least 75% in all the subjects.

M.35 POSTGRADUATE DIPLOMA IN INTERPERSONAL COMMUNICATION AND GROUP TECHNIQUES IN OCCUPATIONAL THERAPY (DCG) (Code 10220131)

(a) Admission requirements

- (i) Subject to the stipulations of General Regulation G.62, the BOccTher degree or an equivalent qualification, as well registration as an Occupational Therapist with the Health Professions Council of South Africa, is a prerequisite for admission to the course.
- (ii) Full-time clinical experience of at least one year after acquiring the Bachelor's degree in Occupational Therapy or an equivalent qualification, or an equivalent period of part-time clinical experience at an institution recognised by the University for this purpose.

(b) Duration

At least one academic year. As the course is only offered every second year, commencement of study must be discussed with the Head of Department.

(c) Curriculum

The curriculum comprises:

- (i) IKX 700 Interpersonal Communication 700
- (ii) GRT 700 Group Techniques 700

(d) Examinations

(i) Admission to the examination

A year mark of at least 50% as well as satisfactory class attendance will be required for admission to the examination.

(ii) Pass requirements

A subminimum of 50% must be obtained in both the written and the oral/practical sections of the examination.

A final mark of at least 50% is required as a pass mark.

(iii) Supplementary examination

Students will only be admitted to a supplementary examination after a period of six months have elapsed since the initial examination in which they failed.

(e) Diploma with distinction

The Diploma is awarded with distinction to a candidate who has obtained an average of at least 75% in the subjects in question.

M.36 POSTGRADUATE DIPLOMA IN FAMILY MEDICINE (Code 10220122)

(a) Admission requirements

In order to be admitted, a prospective student must be in possession of the MBChB degree or equivalent qualification and be registered with the Health Professions Council of South Africa as a physician.

(b) Duration

At least one academic year, or a maximum of five years part-time study by means of distance education.

(c) Curriculum**(i) Compulsory modules**

FPP 780	Principles and Philosophy of Family Medicine 780
FFM 780	The Family in Family Medicine 780
FMX 780	Practice Management for Family Physicians 780
FEM 780	Emergency Medicine 780

(ii) Optional modules

FMD 781	Chronic Diseases 781
FMG 781	Geriatrics 781
FMS 781	Sports Medicine 781
FMI 781	Infectious Diseases 781
FMC 781	Cardiovascular Diseases 781
FME 781	Medical Ethics 781
FMP 781	Physiology 781
FMA 781	Anatomy 781
FMF 781	Psychiatry in Family Medicine 781
FMU 781	Rheumatology 781

Note:

- (aa) Successful completion of certain modules for the Diploma can lead to exemption from corresponding modules prescribed for the MMed degree with specialisation in Family Medicine.
- (bb) A candidate who has acquired the Diploma may be exempted from one year of the prescribed period of study for the four-year (part-time) MMed degree with specialisation in Family Medicine at this University.
- (cc) Physicians who wish to complete only one (or a few) of the module(s), will be allowed to register for only those modules.

(d) Examinations

Examinations will take place in March, June and October.

(e) Pass requirement

A minimum final mark of 50% is required as a pass mark.

(f) Pass with distinction

An average of at least 75% in the four compulsory modules and the four optional modules is required for the Diploma to be awarded with distinction.

SPECIAL REFRESHER COURSE FOR MEDICAL PRACTITIONERS

A one-week course for medical practitioners is presented annually by the Faculty with clinical presentations by various departments in the afternoons and evenings. The Faculty also offers an annual intensive two-day course in one main field of study.

A medical practitioner who wishes to update his or her knowledge, may register as a special postgraduate student in the Faculty of Medicine (Medicine Special). He or she will then have the opportunity to attend demonstrations and discussions and to participate in work as determined by the Head of the Department concerned.

POSTGRADUATE STUDENTS FOR NON-EXAMINATION PURPOSES (Code 10290001)

A medical practitioner or specialist physician may apply to register as a postgraduate visiting student for non-examination purposes for a period/s of one month or longer as preferred, during which period he or she may work in a department of his/her choice.

The nature of this work will be determined by each Head of Department. Periods of time completed in this way, will not be recognised as periods of formal training for the purposes of specialisation.

MEDICINE SPECIAL (Undergraduate)

Individual subjects – not for degree purposes.

Code	Description
10180001	Medicine Special (Undergraduate) Main Campus
10180002	Medicine Special (Undergraduate) Witbank Campus
10180003	Medicine Special (Undergraduate) Hammanskraal Campus
10180004	Medicine Special (Undergraduate) Nelspruit Campus
10180005	Medicine Special Pietersburg Campus
10180006	Medicine Special Klerksdorp Campus
10185021	Medicine Special (Nursing students: Pre)
10190001	Medicine (Non-Examination Purposes) Undergraduate

Code	Extended programme Category 17
10130002	MChB
10131012	BCur
10133012	BSc: Medical Sciences
10137005	BRad
10138002	BArb
10138102	BPhysT
10139002	BDietetics

MEDICINE SPECIAL (Postgraduate) 10280001

Registration as a postgraduate candidate with a view to complete examinations in prerequisite subjects for MMed (with approval of the Dean and heads of departments in question), until such time as a registrarship becomes available.

Neither the University of Pretoria nor the Province is under any obligation whatsoever, to appoint such a student as a registrar or to give him or her precedence over other candidates to be appointed.

SYLLABI

As a result of the restructuring of the University which was still ongoing at the end of 1999, some of the codes for courses and modules may have changed. Please ensure when you register, that you have the correct information.

SYLLABI FOR THE MBChB DEGREE (amended 1st year of study)

YEAR 1 : SEMESTER 1

(CMY 151) First course in Chemistry 151

Theory: General introduction to atoms, elements, chemical bonding and structure, chemical reactions, reactivity, chemical equilibrium, acids and bases, thermochemistry, electrochemistry, phases of matter, organic bonding, stereochemical aspects, organic reactions of hydrocarbon, alcohols, ethers, thiols, amines, aldehyds, ketones, carboxylic acids and its derivatives, carbohydrates, lipids and proteins.

Practical: Synthesis and properties of simple organic and inorganic compounds.

(PHY 131) General Physics 131

Syllabus: Consult the publication: Rules and Syllabuses: Faculty of Science.

(MLB 111) Molecular and Cell Biology 111 (4 lectures and 1 practical per week)

Introductory study of the ultra structure, function and composition of representative cells and cell components. General principles of cell metabolism, molecular genetics, cell growth, cell division and cell differentiation.

(MGW 111) Human Behavioural Science 111 (4 lectures per week)

This course comprises basic psychology and sociology concepts relevant to Medicine. Basic psychiatric principles and concepts are also taught.

(FIL 182) Science and World Views 182 (1 lecture per week)

World views in ancient Greece. Socrates. Plato – the founder of Western thought. Aristotle – the foundation of a new tradition. Leonardo da Vinci. The foundation of modern science. The wonder years of the seventeenth century – the flourishing of the sciences and philosophy. The rising of mechanisation. A drastic turn in man's vision – the rise of psychology. How the theory of relativity changed our view of the cosmos. Quantum theory and its implications for the modern world view. The biological sciences and the secrets of life. Ethics. Bio-ethics. Quality of life. Ethical theory. Applied Ethics. Human rights, choices and ethical codes. Science and philosophy.

(MTL 180) Medical Terminology 180 (2 lectures per week)

The acquisition of a basic vocabulary (the prefixes and suffixes included) in Greek and Latin. The manner in which medical terminology originates from these languages, as well as the ability to analyse and derive the meaning of existing terminology.

YEAR 1 : SEMESTER 2

SA1: (GNK 121) Orientation 121 (1 week)

Introduction to problem-orientated learning. The course and the continuous spiral of course content. Introduction to study methods. Introduction to the Skills Laboratory, Faculty of Medicine.

SA2: (GNK 122) Computer Orientation 122 (1 week)

The role of the computer in learning and assessment. Theoretical and practical aspects of the elementary use of a computer. Introduction to the Computer Laboratory, Faculty of Medicine.

BLOCK 1

(BOK 120) Molecule to Organism 120 (10 weeks)

(a) Molecule to Cell (3 weeks)

The principles of physiology, chemistry, pharmacology and genetics applicable to man. Macro molecules, lipids, carbohydrates and protein. Introductory genetics: molecular evolution, gene structure and transmission, genetic control of the cell cycle, genetic defects. Pharmacology at molecular level: drug receptors, kinetic principles and principles of structural activity relationships.

(b) Cell to Tissue (4 weeks)

Gammatogenesis, embryogenesis, embryopathy, histology, incidence of different tissue types. The immune system and its components. Tissue specificity, genetic control of expression and factors influencing gene expressions.

(c) Tissue to organism (3 weeks)

Anatomical terminology, introduction to the systemic and functional organisation of the human body. Arrangement of tissue in organs. Life stages of man. Impulse conduction and muscle contraction. Nerve potentials.

SA3:

(GNK 126) Knowledge acquisition and processing 126 (2 weeks)

Informatics and resources available for Medicine. Information processing. Clinical epidemiology and biostatistics. Research studies and analyses. Introduction to research methodology.

SYLLABI FOR THE MBCHB DEGREE (amended 2nd year)

YEAR 2 : SEMESTER 1

BLOCK 2

(BOK 282) Man and his environment 282 (6 weeks)

(a) Man in his environment (4 weeks)

Man and disease; family and social concepts in Medicine; communication in Medicine; normal sexual response; role of medical genetics in modern medicine; health and community health; industrial health; medical ethics.

(b) Forensic Medicine (Pathology) (2 weeks)

Medicine and Law : points of tangency; medical law; thanatology; forensic pathology and forensic medicine.

BLOCK 3

(BOK 280) Homeostasis 280 (7 weeks)

(a) Intermediary Metabolism (3 weeks)

Carbohydrate and lipid metabolism; protein and energy metabolism; vitamins and minerals.

Practical work: Protein electrophoresis.

(b) Control (2 weeks)

Nerve control; endocrine control.

(c) Internal Milieu (2 weeks)

Water and Blood : Acid-base equilibrium.

Practical: Haematology.

BLOCK 5

(GNK 284) Endocrine and Systemic Conditions 284 (3 weeks)

Introduction: Systemic Endocrinology, general systemic conditions with endocrinological component and/or interaction with endocrine system; the immune system.

BLOCK 6A

(GNK 285) Blood 285 (2 weeks)

Conversion of blood cells and plasma; clinical, dietary and social aspects of blood diseases; review of haemastases; clonal diseases; blood transfusion and transfusion reactions; haematology in Africa; haematology in pregnancy; neonatus and children.

Anatomy (Dissection)

SA4

(GNK 288) Anatomy (Dissection) 288 (180 hours/7 weeks)

Upper limbs; neck and back; head; brain; thorax; abdomen; pelvis; lower limbs.

YEAR 2 : SEMESTER 2

SA5

(GNK 283) Introduction to Clinical Medicine 283 (2 weeks)

The bio-psychosocio model; the biomedical model; the GOSH model; introduction to clinical departments.

BLOCK 4A

(BOK 281) Pathological Conditions 281 (5 weeks)

(a) General Pathology and Immunology (4 weeks)

Cell damage; growth and repair; infection; disturbances in circulation; HLA system; immune response; hypersensitivity; auto-immunity and transplant immunology. Anatomy of the lymphatic system.

(b) Principles of Neoplasia (1 week)

Oncogenesis, terminology and biological behaviour of tumours, principles of therapy.

BLOCK 4B

(a) (BOK 284) Infectious Diseases 284 (1 week)

General principles with regard to infectious diseases, including bacterial parasitosis, fungi and virus infections. Principles of anti-microbial chemotherapy.

(b) Infectious diseases (3 weeks)

Capita Selecta of important infectious diseases in developing communities.

(GNK 286) Basic Emergency Care 286 (1 week)

Theory and practical training of basic emergency care.

SYLLABUSES FOR THE MBChB DEGREE (amended third year of study)

YEAR 3 SEMESTER 1

BLOCK 6B

(GNK 381) Heart and Bloodvessels 381 (6 weeks)

Discussion of the important diseases in order to obtain a complete overview of the disease, which will include Anatomy, Physiology, Pathology, Pharmacology and Clinical Medicine.

BLOCK 7

(GNK 383) Lungs and Chest 383 (4 weeks)

Discussion of the significant diseases in order to obtain a complete overview of the disease, which include Anatomy, Physiology, Pathology, Pharmacology and Clinical Medicine.

BLOCK 8

(BOK 380) Abdomen and Mamma 380 (11 weeks)

(a) Abdomen and abdomen problems

(b) Mamma

A study of the build and functions, as well as the diseases of the different organs in the abdominal area, with emphasis on the liver and the digestive tract. Furthermore, lectures on the clinical conditions of the mamma will be presented.

SA 12

(GNK 386) Haematological Neoplasmas 386 (1 week)

Haematological malignant neoplasia: Basic and clinical information with regard to this group of diseases, including healing ability with regard to Lymphoma. Leukaemia, myeloproliferative diseases; and immunoproliferative diseases.

YEAR 3 SEMESTER 2

BLOCK 9

(BOK 382) Pregnancy and Neonatology 382 (10 weeks)

(a) Pregnancy

(b) Neonatology

A study of the natural physiological complexes and pathological conditions concerning pregnancy and birth. Different learning opportunities and situations are used, including prenatal clinics, labour wards and neonatal units. Emphasis is placed on acquiring scientifically based information, as well as important practical and clinical skills. The behavioural sciences are also included in the block, as well as the social, family and community-related aspects.

(c) Growth and Development (1 week)

A study of the unique aspects of the physical growth and neuro-development of a normal child. Learning opportunities are given to the student to identify problems concerning growth and development, as well evaluating and handling children with abnormal growth and development. Emphasis is placed on the prevention, evaluation

and handling, as well as the effective treatment with a decided result. This block integrates with the previous block in order to enable the student to understand the continuum of growth and neuro-development from the prenatal to the post-natal milieu.

SA 6

(GNK 385) Preceptorship 385 (2 weeks)

A learning opportunity for the undergraduate student to (1) experience, in practice, the general practitioner or family physician, (2) meet the unselected patient and (3) to observe first-hand, the problems which have to be contended with in general. The problems comprise biomedical, psycho-social and managerial challenges.

YEAR 4 SEMESTER 1

BLOCK 10

(GNK 481) Disorders of Childhood (6 weeks)

The course is designed to help students gain knowledge, skills and attitudes in order to: understand and respond to the special needs and vulnerability of children in relation to development, nutrition, environment and adaptation; recognise by means of history and examination, common and important abnormalities of development, nutrition, environment and adaptation and be able to deal with them effectively; recognise by means of history and examination, common and important health problems of infancy and childhood and be able to deal with them effectively.

The mornings are devoted to direct contact with paediatric patients and their problems by means of small-group activities at a variety of experimental learning sites.

The afternoon periods are used for representative case studies with regard to a series of general or important themes, illustrated by multidisciplinary symposia, lectures, problem-solving exercises and self-tuition.

BLOCK 11

(BOK 480) genital and Urinary Disease 480 (12 weeks)

Module 1: Genital conditions

Module 2: Urinary tract disease

A study of the disorders of the urinary tract and genital systems in males and in females. Theoretical and practical instruction is used to integrate basic science and clinical medicine. Important clinical skills must be mastered.

BLOCK 13

(BOK 482) Nervous Tissue 482 (5 weeks)

Discussion of the important diseases of the central, peripheral and autonomic nervous system with a view to obtaining a total overview of the specific diseases, which include Anatomy, Physiology, Pathology, Pharmacology and Clinical Neurology/Neuro-Surgery/Neuro-Paediatrics.

YEAR 4 SEMESTER 2

(GNK 485) Head and Neck 485 (4 weeks)

An opportunity for the undergraduate student to acquire knowledge and skills to handle diseases of the head and neck region through lectures, seminars, self-tuition and practical

sessions training in the clinic, ward, theatre as well as the skills laboratory. A problem-based and inter-disciplinary approach is emphasised.

BLOCK 14

(GNK 483) Joint Movement Apparatus 483)

A study of the build and functions as well as the diseases of the musculo-skeletal movement apparatus in adults and children. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

SA7

(GNK 484) Endocrinology (1 week)

An opportunity for the student to become familiarised with the most common endocrinology problems in practice. The focus is on the recognition of these conditions and their practical management.

SA8

(GNK 486 Ageing 486 (2 weeks)

Discussion of the physiology and psychology of ageing and an overview of diseases commonly found in the elderly, with a biomedical psycho-social approach.

SA 11

(GNK 487) Skin 487 (1 week)

A study of the structure and functions of the skin and the illness associated with the skin.

SA 10

(GNK 488) Elective 488 (4 weeks)

An opportunity for the undergraduate student to acquire knowledge, skills and experience in the environment of medical practice.

EXISTING SYLLABUSES IN THE DIFFERENT DEPARTMENTS OF THE FACULTY OF MEDICINE

ANAESTHESIOLOGY

General introduction: objectives with general anaesthesia, purpose with pre-operative visit to patient: suitability for anaesthesia, prescription of pre-medication, objective with use of drugs to prepare patient and patient-interaction with anaesthetics (e.g. sedatives, analgetics, anticholinergics), prescription of treatment to improve patient's condition. Induction methods and the use of intravenous medicine, especially thiopentone sodium, methohexitone, propanidid, alphatesine, diazepam, droperiodol; patient control during induction. Anaesthetic apparatus. Techniques in maintaining anaesthesia. Use of relaxants. Artificial ventilation (AV). Maintaining the acid-base equilibrium, maintaining the moisture equilibrium, central venous pressure. Complications that can occur during anaesthesia and the way they are handled. Care of the unconscious patient and cardiopulmonary resuscitation, dysrhythmia during anaesthesia. Local anaesthetics: techniques, drugs and toxicity.

ANATOMY

(RAN 100) Radiographic Anatomy 100: (3 lectures + 1 hour prac. p.w.)

Systematic approach to anatomy with preserved specimen-based discussions of the cardiovascular, respiratory, musculo-skeletal, digestive, genito-urinary, endocrinological and nervous system; special sensory organs, as well as surface anatomy. Introductory histology of cells, tissue and organs. Emphasis is placed on osteology and the anatomy of joints.

(ANA 101) Anatomy 101: (5 lectures + 2 hours prac. p.w.)

Systematic approach to anatomy with preserved specimen-based discussions of the cardiovascular, respiratory, musculo-skeletal, digestive, genito-urinary, endocrinological and nervous system; special sensory organs, as well as surface anatomy. Introductory histology of cells, tissue and organs. Emphasis is placed on the musculoskeletal system.

(ANA 102) Anatomy 102: (4 lectures + 2 hours prac. p.w.)

Systematic approach to anatomy with preserved specimen-based discussions of the cardiovascular, respiratory, musculoskeletal, digestive, genito-urinary, endocrinological and nervous system; special sensory organs, as well as surface anatomy. Introductory histology of cells, tissue and organs. Emphasis is placed on a versatile practical knowledge of anatomy.

(ANA 121) Introducing Human Anatomy and Embryology 121 (1 lecture, 1 hour prac. p. w.)

Terminology, musculo-skeletal system, nervous system, surface anatomy, introductory osteology and joints, introductory embryology, gametogenesis, reproductive cycles, week 1 and 2 after fertilisation, trilaminar embryo, vascular system, general bodily form and derivatives, placenta, correlation between embryonic and mature structures.

(ANA 122) Human Osteology 122 (1 lecture, 1hour prac. p. w.)

Introduction to osteology, bone function and classification, humerus, radius, ulna, femur, tibia, fibula, clavicle, scapula, ribs, sternum, vertebrae, pelvis, hand and foot bones, sesamoid bones, skull, mandible, joints.

(ANA 125) Human Biology 125 (1 lecture, 1 hour prac. p.w.)

Introduction to human biology, human evolution, human beings, primates and mammals, introduction to human genetics, population genetics, population variation in qualitative and quantitative traits, the concept "race". Introduction to skeletal biology. Human growth, measuring growth, human adaptability, modernisation and human biological response.

(ANA 126) Basic Human Histology 126 (1 lecture, 1 hour prac. p.w.)

General introduction to cells and tissue, terminology, the cell and cytoplasm, organelles and inclusions, surface and glandular epithelium, general connective tissue, specialised connective tissue, namely cartilage, bone, blood and haemopoietic tissue, muscle and nervous tissue.

(ANA 213, 223) Human Anatomy 213, 223 (2 lectures, 10 hours prac. p.w.)

Regional approach to human anatomy. Cadaver dissection of the upper and lower limbs, head, neck and back, neuro-anatomy, thorax, abdomen, pelvis, perineum and genital area.

(ANA 214) Human Cell and Developmental Biology 214 (2 lectures, 4 hours prac. p.w.)

Functional review of the cell and cell content. Normal and abnormal cell function in relation to structure. Control of the human cell, heredity and the human genome. Cell communication, growth and development, adhesion and division. Aspects of cellular research. Techniques of how to study cells. Medical cell and molecular biology application.

(ANA 225) Paleoanthropology 225 (2 lectures, 2 hours prac. p.w.)

Introduction to paleoanthropology, focussing on hominid fossil record, principles of evolution, principles of heredity, human variation, introduction to primatology, hominide taxonomy, time-frames and dating methods, fossilisation and tafonomy, trends in hominide evolution, hominide areas. Australopithecus, Homo habilis, Homo erectus, Homo sapiens neanderthalensis, the origin of anatomically modern human beings, DNA studies, paleo-environments, hominide diets, introduction to the development of culture, South African populations.

(ANA 226) Human Histology 226 (1 lecture, 4 hours prac. p.w.)

General introduction to organ structure. Terminology. The eye, ear, skin, circulatory system, nervous system, lymphoid system, gastrointestinal tract, gastrointestinal tract glands, respiratory system, urinary system, andrological and female reproductive systems, endocrine system.

(ANA 324) Applied Human Cell and Developmental Biology 324 (2 lectures, 4 hours prac. p.w.)

Practical aspects of cell biology. Cell, tissue, organ and organism culture. The biology of the culture environment. Cellular basis of morphogenesis, cleavage patterns and gastrulation. The early vertebrate development; neurulation, ecto-, meso- and endoderm derivatives. Cell destiny and embryonic axis including malformations. Development of the Tetrapod limb and cell death. Cell interactions at a distance through hormones and metamorphosis.

(ANA 327) Comparative Anatomy 327 (1 lecture, 2 hours prac. p.w.)

Introduction to comparative anatomy. Introduction to comparative osteology. Comparative anatomy of the appendicular skeleton. Comparative anatomy of the axial skeleton.

(ANA 315) Forensic Anthropology 315 (2 lectures, 2 hours prac. p.w.)

Introduction to forensic anthropology, detection of graves, excavation of graves, human vs., animal bone, forensic entomology, osteometry, cranial and post-cranial measurements, non-metric features of the skeleton, age determination, sex determination, race determination, ante-mortem stature, dental analysis, osteopathology, factors of individualisation, measurements of the face, introduction of face mapping and skull-photo superimposition, legal aspects.

(ANA 316) Histology Techniques 316 (2 lectures, 2 hours prac. p.w.)

General introduction to light and electron microscopic techniques: fixation, processing, imbedding, staining. Principles of different staining techniques for LM and EM: routine stains, proteins, carbohydrates, amino acids, metachromasia, immunocytochemistry, lectin stains, specialised stains. Principles of the operation of LM and EM: general LM, fluorescent microscopy, differential contrast microscopy, dark field microscopy, phase contrast microscopy, transmission and scanning electron microscopy.

(ANA 318, 328) Applied Research Techniques 318 & 328 (2 hours prac. p.w.)

Introduction to research. Development of research project. Research skills. Completion of research project.

(ANA 700 to ANA 900) Postgraduate Anatomy courses

A complete synopsis of all anatomy courses on postgraduate level is published in the Study Guide for Postgraduate Anatomy Courses, which is available on request from the Department of Anatomy.

(EPE 800) Epidemiology 800

The following Epidemiology modules are compulsory:

- Introduction to health measuring and informatics.
- Basic epidemiology and biostatistics.
- Analytical epidemiology.
- Taking of surveys.
- Introduction to health informatics.
- Basic quality assurance.
- Intermediary biostatistics.
- Introduction to health system research.
- Research ethics.
- Obtaining research awards.
- Scientific writing and reporting.
- Introduction to quantitative research.
- Community participation in research.
- Experimental Epidemiology: clinical experiments.

(KEP 800) Clinical Epidemiology 800

Students will be required to complete satisfactorily an individualised series of modules, compiled in conjunction with consultants in the Department. The list of available modules will differ from year to year, depending upon the demand for the modules in question. The list of available modules will also be reviewed from time to time, in accordance with the changes in the field of public health. A list of the modules offered at present is obtainable from the departmental secretary (Telephone no. (012) 323-5394.)

MASTER OF PUBLIC HEALTH (MPH)

The Master's degree in Public Health consists of seven areas of concentration. A student will acquire a number of credits with each module completed successfully. A total of 80 credits is required to comply with the course-work requirements for the MPH.

A maximum of 25% of the course requirements is compulsory. These modules are referred to as the core modules. The remaining modules may be chosen from the seven areas of concentration. A student must choose 50% of his credits from one of the seven areas of concentration, unless the written approval of the Head of the Department of Community Health has been obtained.

The remaining 25% of course credits can be obtained in any area of concentration.

The seven areas of concentration are:

- (1) Health Policy and Management.
- (2) Health Measuring.
- (3) Environmental and Vocational Health.
- (4) Social and Behavioural Sciences.
- (5) Communicable Diseases.
- (6) Non-Communicable Diseases.
- (7) Primary Health Care Administration.

The examination consists of the average weighted marks of all the modules completed as part of the required 80 credits. In addition, a dissertation must be passed independently from the course work.

In the light of the fact that the course compilation of each student for the MPH is potentially complicated, it is important that the choice of available courses for students is confirmed by the Head of the Department of Community Health, and may differ from year to year.

FAMILY PHYSICIAN PRACTICE

Practice: running a practice – entry, consulting room design, equipment. Practice finances and account systems, insurance, office organisation.

Management: business management, optimal utilisation of time, personnel management. Medicine prescription and dispensing. Medical schemes, contract practice, consent to operations, contracts with patients, professional accountability. Council and organisations in health professions.

Clinically related affairs: clinical approach to the unselected patient, doctor-patient relationship, problem-directed clinical recording, home visits, medical certificates, references and consultations. Primary care clinical medicine: the patient with hypertension, sexually transmissible diseases, etc. Primary emergency medicine, e.g. the unconscious patient, violence, initial handling of the heavily injured, the drowning person, acute myocardial infarction, acute asthma, etc. Rehabilitation.

Family medicine: family structure and function. Counselling, marital problems, sexuality, family problems, crisis handling, terminal care.

SYLLABUSES FOR THE POSTGRADUATE DIPLOMA IN FAMILY MEDICINE

(FMS 781) Sports Medicine 781

An approach to sports injuries: concepts of training and fitness: investigations; injury; strapping and wrapping; stress fractures; examination and clinical conditions of different areas, upper limb, lower limb, pelvis; trunk and head: special considerations of age and gender – the child, the female athlete and the elderly exerciser; exercising under certain conditions – heat, cold, underwater, attitude and time zones; sport and medical conditions – diabetes mellitus; HIV/AIDS; drugs, alcohol; the tired athlete; concussion/boxing; exercise induced headache and medical coverage of sports events.

(FMD 781) Chronic Diseases 781

Study of diabetes mellitus, asthma, epilepsy, hypertension, cardiac failure, obesity and chronic pain.

(FPP 780) The Principles And Philosophy Of Family Medicine 780

The origins and emergence of Family Medicine: the discipline Family Medicine; the principles of Family Medicine; Family Medicine in relation to other disciplines; the consultation; the deeper diagnosis; patient-centred medical practice; the doctor-patient relationship; records and record-keeping; preventive and promotive medicine and practising family medicine on a daily basis.

(FMA 781) Anatomy 781

Study of the upper limb including the breast; head and neck; thorax; abdomen; pelvis; lower limb; embryology and histology.

(FMG 781) Geriatrics 781

Study of theories of ageing; physiology of ageing; demography; presentation of disease in the age; cardiovascular system; conditions of the joints; respiratory system; central and peripheral nervous system; digestive tract; endocrine system; haematology; skin and sense organs; psycho-geriatrics; falls in the elderly; cancer; terminal care; nutrition; rehabilitation; drugs and preventive geriatrics.

(FFM 780) The Family In Family Medicine 780

Study of the family as the object of care; family systems theory; tools for family-oriented care; family life-cycle; ethics of treating families, family conference; the family and chronic illness; family violence and alcohol abuse in the family.

(FMX 780) Practice Management 780

Study of human resource management, financial management, auditing of management and management of services.

(FEM 780) Emergency Medicine 780

Study of airway; airway ventilation breathing; circulation; disorientation and evaluation.

(FMU 781) Rheumatology 781

Study of Rheumatoid arthritis; osteoarthritis; gout; collagen diseases; low back pain; fibromyalgia and osteoporosis.

(FMP 781) Physiology 781

Study of the nervous system; muscle physiology (skeletal, smooth and heart muscle); endocrine physiology; physiology of reproduction (age-related); cardiovascular physiology; thermoregulation; nutrition and digestion; acid-base balance; kidney, salt and water balance; blood and respiration.

(FME 781) Medical Ethics 781

Introduction; study of the doctor and the patient; informed consent; informing; confidentiality and transparency; ethics of life and death; death and dying; reproductive and sexual ethics; community health and ethics; maintenance of ethical standards and personal ethics.

(FMI 781) Infectious Diseases 781

Introduction; study of traveller; tropical regions; viral illnesses in children; fever of unknown origin; sexually transmitted diseases; haemorrhagic fever; infective diarrhoea; meningitis; leprosy; AIDS/HIV; tuberculosis; rabies; school attendance and infectious diseases; community-acquired pneumonia; virus hepatitis; rational use of antibiotics and other exogenous diseases.

(FMF 781) Psychiatry in Family Physician Practice 781

Study of depression, anxiety; suicide and parasuicide; difficult adolescent; substance use and abuse; schizophrenia; dimension and delirium and the acutely disturbed patient.

(FMC 781) Cardiovascular Disease 781

The elements of a complete cardiovascular diagnosis; the underlying etiology; anatomic abnormalities; physiological disturbance; extent of functional disability; clinical situations (problems) in cardiovascular medicine; the symptomatic patient; chest pain; ischaemic heart disease; dyspnea/fatigability; myocardial diseases; asymptomatic patient; abnormal

blood pressure; cardiac murmur; abnormal ECG; abnormal chest roëntgenogram and positive family history of cardiac disease.

INTERNAL MEDICINE

Cardiovascular. Respiratory. Metabolic diseases. Renal diseases. Immunology. Genetics. Virus diseases. Poisonings and damage of the human being. Neurology. Locomotor and connective tissue disorders. Clinical haematology. Pathological haematology (dept of Haematology). Endocrinology. Hypothalamus and hypophysis, Thyroid. Adrenal glands. Diabetes mellitus. Diverse endocrinopathies. Gastro-enterology. Radiodiagnostics (dept of Radiology); Radiotherapy (dept of Radiation Oncology); Industrial diseases (dept of Community Health). Oncochemotherapy (dept of Medical Oncology). Infectious diseases. Dermatology. Physical examination methods.

OBSTETRICS AND GYNAECOLOGY

Obstetrics:

Particular anatomy, ovary and sex hormones. Menstruation. Conception, development of impregnated ovum, placenta. Physiology of pregnancy; diagnosis of pregnancy; lactation; prenatal care. Abortion. Birth channel. Placenta; puerperium. Extra-uterine pregnancy; trophoblast tumours. Abnormal positions. Forceps delivery, ventouse, caesarean section. Antepartum haemorrhage. Multiple pregnancies. Induction and termination; oxytocin and prostaglandin. Deformities of genital tract. Other particular disorders which occur with pregnancy. Premature and postmature labour. Disorders of the placenta. Hidramnios. Examination of the foetus; foetal distress and death. Statistics. Radiodological diagnosis (RD), sonar diagnostics (SD). Analgesia and anaesthesia at childbirth. Amniocentesis. Particular infections during pregnancy. The breasts. Puerperal infection; control of sepsis. The unmarried mother and adoption.

Gynaecology:

Genital prolapse; gynaecological infections; epithelial dystrophies; endometriosis. Tumours of vulva, vagina, cervix, uterus, ovaries. Abnormal bleeding. Vaginal discharge. Dyspareunia and other sexual problems. Infertility. Family planning. Injuries, tears, rupture of the uterus; fistulas. Urinary, rectal and anal conditions. Hysterectomy and consequences; gynaecological operations. Radiotherapy (RT). Intersex. Genetic counselling. Cytology.

OPHTHALMOLOGY

Revision of anatomy and embryology.

Examination methods: clinical execution, apparatus, medicines in eye examinations, special examinations. Diseases. The effect of systemic diseases on the eye and adnexa. Neuro-ophthalmology, extra and intra-ocular muscles. Optics and refraction – the clinical implications. Use of medicines in ophthalmology.

Removal of the eyeball – indications, methods and complications.

OTORHINOLARYNGOLOGY

Revision of anatomy and physiology; examination methods; affections of (a) nose; (b) paranasal sinuses; (c) pharynx and nasopharynx; (d) larynx; (e) trachea, bronchia and oesophagus; and (f) ear; external ear, tympanum, middle ear. Mastoid. N facialis. Deafness. Equilibrium disturbances. Methods of treatment.

PAEDIATRICS

Child development. Common physical problems in children: cranial disorders; disorders of the mouth, ear, nose and throat; dermal disorders; cardiovascular system, urogenital system; common neurological conditions inter alia migraine, the hyper-active child, the clumsy child. Common psychological problems. Infant nutrition. The new-born infant: the normal, most important anatomical and physiological aspects. The following systems: digestive; diseases of the pancreas with emphasis on cystic fibrosis, liver diseases with emphasis on causes of liver enlargement and portal hypertension in children; urogenital; the endocrine glands; haemopoiesis.

Miscellany: including the child-abuse syndrome, sudden unexpected infant deaths, histiocytosis and lipoidosis (also see Internal Medicine); congenital metabolic diseases which appear during infancy and early childhood.

Poisonings. The air passages. Cardiovascular system. Skeleton, joints and muscles. Infections. Paediatric pharmacology with emphasis on dangers of certain medicines for babies, and dosage schedules.

Student Internship

The sixth year is devoted full-time to clinical assignments.

PHARMACOLOGY: POSTGRADUATE

Training extends over 3 years (part-time). The syllabus covers the following aspects of pharmacology: (a) Medical biostatistics; (b) Pharmacokinetics (handling of medicines by the biological object); (c) Pharmacodynamics (the effects of medicines on the biological object) and (d) Clinical pharmacology.

Students are required to complete two projects during the study period, i.e. a colloquium and a research project.

PHYSIOLOGY

(FLG 211) Introductory and Neurophysiology 211 (2 lectures and ½ prac. p.w.)

Orientation in physiology, homeostases, cells and tissue, muscle and neurophysiology, cerebrospinal fluid and the special senses.

Practical work: Experimental physiology to complement the theory.

(FLG 212) Circulatory Physiology 212 (2 lectures and ½ prac. p.w.)

Body fluids, haematology, cardiovascular physiology and the lymphatic system.

Practical work: Practical exercises and experimental physiology.

(FLG 221) Lung and Renal Physiology, Acid-base Balance and Temperature 221 (2 lectures and ½ prac. p.w.)

Structure, gas exchange and secretory function of the lungs; build, excretory and non-urinary functions of the kidneys, acid-base balance, as well as the skin and body temperature control.

(FLG 222) Digestion, Endocrinology and Reproductive System 222 (2 lectures and ½ prac. p.w.)

Nutrition, digestion and metabolism, hormonal control of body functions and the reproductive systems.

Practical work: Experimental physiology.

(FLG 311) Applied Cellular Physiology 311 (1 lecture and 1prac. p.w.)

Study of cell morphology, functions of the cell organelles, synthesis of various membrane and cytoskeletal proteins, activation of proteins through phosphorylation, which is controlled by signal transduction mechanisms, processes involved in controlling cell numbers, background for cell-based experiments and research.

(FLG 312) Developmental Physiology 312 (2 lectures p.w.)

Study of the physiological development and adaptations from the foetus through to the aged.

(FLG 313) Research Methodology and Literature Studies 313 (1 lecture and 1 pract p.w.)

Research methodology, career planning, subject orientated literature studies and seminars. Practical work: Preparation of research protocol, gathering of information (literature), writing of seminar.

The following modules allow a limited possibility for selection of modules in conjunction with the Head of the Department of Physiology:

(FLG 321) Immunology 321 (1 lecture p.w.)

Introduction to basic, applied and integrated immunological mechanisms.

(FLG 322) Industrial Physiology 311 (1 lecture and ½ prac.p.w.)

Problem-orientated course with the emphasis on occupational health and safety in the industrial environment. Integration of different physiological systems is required. Practical work: Visits to a number of industries.

(FLG 323) Physiological Control Systems and Modelling 323 (1 prac. p.w.)

An introduction to the theory of control systems and examples in Physiology as illustrated; simulation of physiological functions, making use of signal-flow diagrams and mechanical, electrical and numerical models.

(FLG 324) Exercise Physiology 324 (1 lecture and ½ prac. p.w.)

Mechanisms of muscle-contraction and energy sources. Cardio-respiratory changes, thermo-regulation and other adjustments during exercise. Use and misuse of substances to improve performance. Practical work: Applied practical work.

(FLG 325) Nutrition Physiology 325 (1 lecture p.w.)

The importance of nutrients and micro nutrients in the composition of a normal diet; the neuro-endocrine control of food intake and special aspects of the function control of the digestive tract. Practical work: Applied practical work.

The following module is compulsory and can, in consultation with the Head of the Department of Physiology, replace certain of the other modules on the 300 level:

(FLG 326) Research Project 326 (1 lecture + 1 prac. p.w.)

Special techniques and research projects.

Only a limited number of students may, with departmental approval, be allowed to register for this module, and it can then replace certain of the modules on the 300 level.

(FLG 327) Higher Neurological Functions 327 (1½ prac. p.w.)

Tutorial and seminars on higher functions of the brain and interaction between the neurological, endocrine and immune systems.

(MFG 777) Human Physiology 777 (BSc(Hons) with specialisation in Human Physiology)

- Basic Physiology: Self-tuition
- Applied Physiology: 22 lectures and self-tuition.
- Research techniques: 11 lectures and demonstrations.
- Seminars: Two per students: approved topics
- Journal discussions: Two per student.
- Research project: Submission of protocol, execution of project under supervision and presentation of results required. Final results submitted in the form of an essay.

PSYCHIATRY

Psychiatry 500 and 600 60 l.p.w. 40 hours prac. p.a.

History and development of psychiatry. Basic psychiatric and sociological concepts. Psychiatric examination methods. Psychological development of the child. Mental retardation and development disturbance. Behavioural and anxiety disturbances in the childhood and adolescent years. Eating disorder, gender identity disorder, Tic, discharge and speech disorder. Organic mental disturbance. Dementia, alcohol and other drug-induced disorders. Schizophrenia, delusional and other psychotic disturbances. Emotional and anxiety disturbances. Somatic and dissociative disturbances. Sleeping, imitated and impulse control disturbances.

Adaptation disturbance. Psychological factors which affect the physical condition. Personality and personality disorder. Psychiatric methods of treatment. The Mental Health Act. Abortion and Sterilisation Act.

SURGERY

The Mamma. Carcinoma. Thyroid. Parathyroid. Salivary gland. Swelling in the neck. Dermatomas. Intra-oral carcinoma. Surgical conditions of the oesophagus. Gastro-intestinal tract. Abdominal wall: injuries, hiatuses. The acutely injured patient: shock and burns. Surgical infections. Surgical aspects of large arteries: injury, aneurism, stenosis; venous system and lymph system. Organ transplant and immunology (also see Microbiology). Plastic surgery: principles and examples. Orthopaedic conditions. Principles of operative techniques: asepsis and sterilisation. The liver, gall-bladder and biliary tracts, pancreas, thorax, nervous system, urinary tracts.

SYLLABI IN NURSING SCIENCE

UNDERGRADUATE

NURSING SCIENCE

VGK 112: 60 periods

Health – disease continuum – comprehensive health. The human being and his living environment, the living environment of the sick person. Nursing process. Ethos. Professional practice. Principles of Biophysics. Applicable biophysical principles.

VGK 122: 75 periods

Provision for the basic needs of the patient. First aid. Terminally ill patient. Introduction to Psychiatric Nursing.

VGK 212: 75 periods

Promotion of health and prevention of illness. Nursing of the ill person, in all phases of life, relating to selected systems and oncology. Anaesthesiology. Psychiatric Nursing.

VGK 222: 90 periods

Personal development and coping mechanisms and Psychiatric Nursing. Nursing of the ill person, in all phases of life, relating to selected systems and infectious diseases.

VGK 312: 90 periods

Primary health. Psychotherapeutic nursing interventions and mental retardation. Nursing people with specific conditions or in specific situations. Psychiatric Nursing.

VGK 322: 90 periods

Community nursing, principles, epidemiology, occupational health, family care. Research methodology. Traumatology. Principles of management and professional practice.

VGK 400: 120 periods

Applied Nursing Science. Clinical teaching, ward management, and professional practice. Research.

NURSING SCIENCE PRACTICAL WORK

VGK 101: (1 hour per week)

Practical work according to the field of specialisation.

VGK 103: (150 hours)

Practical instruction in professional practice, general, psychiatric and community nursing.

VGK 201: (1 hour per week)

Practical work according to the field of specialisation.

VGK 203: (125 hours)

Practical training in general and psychiatric nursing.

VGK 302: (190 hours)

Practical instruction in ward management, professional practice, general and psychiatric nursing and midwifery.

VGK 402: (120 hours)

Clinical teaching; ward management and midwifery.

PHARMACOLOGY**(FAR 305) Pharmacology 305: (90 periods)**

Receptors, antagonism, kinetic concepts. Medicines for: autonomous and central nervous system, asthma, hypertension, angina and pain. Antibiotics and other anti-infective medicines. Medicines for local anaesthetics, anaesthesia, migraine, digestive tract and podagra. Hormones and vitamins.

PHYSIOLOGY**(FSG 102) Physiology 102: (3 l.p.w.)**

Biochemistry principles, haematology and immunological principles, cytology and histology, cardiovascular system, neurophysiology, respiratory system, kidneys, acid-base equilibrium, digestive system, metabolism, skin, endocrine system and reproduction, generic system.

MIDWIFERY**VLV 320: (45 periods)**

Fertilisation and embryology. Preconception care. Normal pregnancy and childbirth.

VLV 410: (45 periods)

Normal puerperium. The neonate. Handling of medicine by nurses.

VLV 420: (45 periods)

Abnormal course of pregnancy, childbirth and puerperium. Infertility.

NURSING MANAGEMENT**VPB 110: (30 periods and practical work)**

Systems approach. Generic processes in Nursing. Management aspects. Principles of Public Administration.

VPB 120: (30 periods and practical work)

Management aspects. Health facilities planning. Essay.

VPB 200: (60 periods)

Staff issues and contemporary problems. Project work.

VPB 300: (60 periods)

Intermediate level nursing management and the role and function of the nursing services managers.

NURSING EDUCATION MANAGEMENT

VOB 110: (45 periods)

Module 1: Facilitating learning

Module 2: Practical planning of teaching at micro level

VOB 120: (45 periods)

Module 1: Educational Psychology

Module 2: Learning Theories

VOB 200: (90 periods)

Management principles at meso level.

VOB 300: (90 periods)

Management of a nursing college.

NURSING EDUCATION THEORY

VOW 110: (60 periods)

History and philosophies. Nursing education systems. Teaching methods and student guidance. Curriculation.

VOW 120: (60 periods)

Andragogics. Nursing theories. Student support systems. Evaluation.

VOW 210: (45 periods)

Nursing education: status, objectives, socialisation, formation and problematics. CAE.

VOW 220: (45 periods)

Function analysis: lecturer, student. CAE.

VOW 300: (90 periods)

Macro and meso level curriculation. Developments and problems. CAE.

NURSING EDUCATION PRACTICAL WORK

VOW 102: Practical work at a nursing college. Preparation and presentation of at least 10 lectures and 7 clinical training lectures. Introduction of the profession.

COMMUNITY NURSING

GVP 110: (45 periods and practical work.)

Comprehensive health. Primary care. Diagnostic skills. Determining needs with regard to community services.

GVP 120: (45 periods and practical work.)

Social phenomena of importance in community nursing. Health education and instruction of the patient. Family studies. Handling of matters by nurses.

GVP 200: (90 periods.)

National, regional and local health profile; policy-making structures and policy on macro-micro level; factors which influence service-rendering; relevant legislation; social, cultural and transcultural considerations.

Approaches to the planning of the development and health status of the community, planning, implementation and interventions; applied demography, ecology, biostatistics and epidemiology.

Practical work.

GVP 300: (90 periods.)

Application of relevant nursing theories. Quality assurance. Nursing planning and applicable nursing interventions in individual, family, group and community context. Family care.

DYNAMICS OF NURSING

VDN 110 (45 periods)

Ethos. Professional practice. Introductory research.

VDN 120 (45 periods)

Communication. Health Service dynamics. Managerial principles. Teaching principles. Nursing management of medication.

CLINICAL NURSING

KVG 110: (45 periods)

Scientific approach to the applicable field of specialisation.

KVG 120: (90 periods)

Legal aspects. Provision of health services and control with regard to the applicable field of specialisation.

KVG 210: (45 periods)

Legal aspects, prehospital emergency care. Diagnostic skills.

KVG 220: (45 periods)

Primary, secondary and tertiary preventive services. Socio-economic tendencies and their influence on the relevant field of specialisation.

KVG 300: (90 periods)

Role and function of clinical nursing specialists in the field of specialisation.

APPLIED NURSING RESEARCH

TVN 100: (30 periods)

Training in the research process, followed by a personal project.

SYLLABI FOR BOccTher

OCCUPATIONAL THERAPY 100: (12 lectures p.w; 13 p)

Introduction to theory and philosophy and occupational therapy and the different occupational therapy models; synopsis of the origin and development of the profession at international, national and local level; the role of occupational therapy in health care; etiquette; legal aspects applicable to occupational therapy; practical work.

OCCUPATIONAL THERAPY 201: (2 lectures p.w; 15 p)

Evaluation and principles of treatment for physical, cognitive and psychosocial dysfunction; clinical-practical work.

OCCUPATION THERAPY 202: (2 lectures p.w., 15 p)

Evaluation and principles of the treatment of cognitive and psychosocial dysfunction; clinical-practical work.

OCCUPATIONAL THERAPY 301 and 302: (7 lectures p.w, 48 p)

Continued study of occupational therapy theory and models; principles of treatment for physical, cognitive and psychosocial dysfunction; occupational therapy programmes for different diagnostic groups. Clinical-practical work.

OCCUPATIONAL THERAPY 401: (1 lecture p.w, 70 p)

Continued study of occupational therapy for physically disabled patients with emphasis on application and integration of knowledge. Clinical-practical work.

OCCUPATIONAL THERAPY 402: (1 lecture p.w, 70 p)

Continued study of occupational therapy for psychiatric disabled patients with emphasis on application and integration of knowledge. Clinical-practical work.

THERAPEUTIC MEDIA 100: (1 lecture p.w, 72 p)

Classification of activities. Study, mastering and analysis of representative activities from the working, leisure-time and personal sphere.

THERAPEUTIC MEDIA 200: (3 lectures p.w, 33 p)

Study, mastering and analysis of representative activities from the working, leisure-time and personal sphere. The normal development of occupational performance in the working, leisure and personal sphere. Evaluation of dysfunction in the working, leisure and personal sphere. Principles of occupational performance. Principles for remedial measures and adaptation of occupational performance.

THERAPEUTIC MEDIA 300: (6 lectures p.w; 32 p)

Study, mastering and analysis of representative activities from the working, leisure and personal sphere. Evaluation of dysfunction in the working, leisure and personal sphere. Further study of remedial measures and adaptation of occupational performance. The use of therapeutic apparatus; splints and prostheses in the working, leisure-time and personal sphere. Clinical-practical work.

THERAPEUTIC MEDIA 400: (1 lecture p.w, 70 p)

Continued study of activities and procedures with emphasis on application and integration of knowledge. Clinical-practical work. Execution of a research project.

ANATOMY 101:

Consult syllabus under Anatomy.

SCIENCE AND WORLD VIEWS 182

Consult syllabus under MBChB degree (1st year).

PHYSIOLOGY 100:

Consult syllabus at BPhysT.

PSYCHOLOGY 102 and 202:

Consult syllabus in publication on Rules and Syllabuses: Faculty of Humanities.

KINESIOLOGY 217: (3 lectures p.w)

Biomechanics; the muscular-skeletal system; muscle function with specific reference to types of muscle contraction and the function of agonists, antagonists and synergists; posture and positioning; neuromuscular analysis of activities.

CLINICAL TOPICS 210: (6 lectures p.w)

- (a) General surgery: Bleeding and shock; arterial diseases; conditions of venae and lymphatic vessels, mamma, thyroid, oesophagus, stomach and duodenum, appendix, pancreas, colon and gall-bladder. Burns.
- (b) Orthopaedics: Congenital defects; fractures, dislocations and nerve injuries; infections; hand conditions and surgery; degenerative conditions; postural deformities; orthoses and orthopaedic apparatus.
- (c) Obstetrics and gynaecology: Normal pregnancy and childbirth; complications during pregnancy and childbirth; family planning; infertility.
- (d) Paediatrics: Causes, signs, symptoms and medical treatment of children's diseases; premature baby; neurological deviations; learning problems; hereditary and congenital deviations.

CLINICAL TOPICS 220: (6 lectures p.w)

- (a) Internal medicine: Conditions of the respiratory, cardiovascular and digestive systems; haematology; rheumatology; oncology; infections; geriatrics.
- (b) Neurology: Examinations; cerebral hemisphere dysfunction; myelopathies, apoplexy; dementia; headache: motor neuron diseases; multiple sclerosis; myopathies; epilepsy.
- (c) Ophthalmology: Synopsis of the examination and treatment of eye conditions.
- (d) Radiology: Synopsis of different radio therapeutic techniques that are used in the treatment of cancer.

PSYCHIATRY 200: (4 lectures p.w)

History and development; examination methods; psychiatric responses to physical diseases; exogenous response and symptomatic psychosis; alcoholism and other addictions; organic psychosis; child psychiatry; adolescence and its problems; psychoneurosis; psychotherapeutic techniques; behaviour therapy; ageing and mental diseases in aged persons; psychopathy; schizophrenia; affective disturbances; suicide; epilepsy; mental retardation; medicines and physical methods of treatment; genetics; legal aspects; community aspects; psychosexual development and sexual anomalies.

ANATOMICAL PATHOLOGY 210: (3 lectures p.w)

Principles of pathology, including swelling, necrosis, reversible cell damage, repair and disorders of growth. Disturbances of circulation, acute and chronic inflammation,

classification of tumours. Systemic pathology with specific reference to cardiovascular, respiratory, nervous and locomotory systems.

HUMAN DEVELOPMENT 210: (2 lectures p.w)

Concept description, factors which influence development and field of application in Occupational Therapy. Study of the (i) sensory system with emphasis on its functions in normal development, and (ii) motor system with emphasis on milestones in early development. Development of physical awareness and orientation in time and space. Synopsis of development in different phases of life from birth to old age.

COMMUNITY STUDY 300: (2½ lectures p.w.)

- (a) Community health: *Capita Selecta* from Industrial Medicine; health functions of a local authority; Epidemiology; levels of preventive medicine.
- (b) Sociology: Introduction to medical sociology; disease; disease behaviour and the society; Social epidemiology. Sanitation and health services in South Africa.
- (c) Role of Occupational Therapy in comprehensive health care; determining the needs of the society and the individual in society; re-integration into the society; co-operation with the society; Occupational therapy programmes with emphasis on risk groups; identification of community resources.

INTERPERSONAL COMMUNICATION 300: (3 lectures p.w)

Discussion class with emphasis on personal development and insight into the ability to develop interpersonal relationships with patients. Study in group techniques and training in the role of group leader in Occupational Therapy.

MANAGEMENT METHODS 410 (2 lectures p.w)

The foundation of management and its purpose in an occupational therapy service. Planning, organisation, manning, management, control. Legislation and regulations with regard to the management of an occupational therapy service. Ethical issues in rendering an occupational therapy service.

SYLLABI FOR BACHELOR HONOURS IN OCCUPATIONAL THERAPY

All fields

HUMAN RESOURCE MANAGEMENT

Capita Selecta from: Provision, development and utilisation of manpower.

USE OF ASSISTANT, SPECIALIST AND PARTICIPANT PROFESSIONAL STAFF IN OCCUPATIONAL THERAPY

Consideration of the use of technical, artistic and other staff in Occupational Therapy in the different fields of occupational therapy practice.

RESEARCH IN OCCUPATIONAL THERAPY

Research design and methodology applied to Occupational Therapy.

BIOSTATISTICS AND RESEARCH METHODOLOGY

Introduction to Statistics and Research Methodology.

(1) **ORTHOPAEDICS**

Anatomy

Further study of anatomy pertinent to the particular field of study.

(This applies to every field where Anatomy is prescribed.)

Anatomical Pathology

Study in Anatomical Pathology aimed at Orthopaedics.

Anatomical Pathology

Study in Anatomical Pathology directed at Orthopaedics.

Biophysics

Capita Selecta from Biophysics applicable to Occupational Therapy.

Occupational Therapy (Orthopaedic)

Advanced study in Occupational Therapy for orthopaedic conditions.

(2) **INTERNAL MEDICINE AND SURGERY**

Anatomical Pathology

Study in Anatomical Pathology applicable to the field of study, including attendance of Oncology and Clinical Pathology discussions.

Ergonomics

Capita Selecta from Physiology, with emphasis on the respiratory system and cardiovascular system. Design factors, especially of furniture, equipment and layout of work place.

Environmental factors. Methods to examine work.

Occupational Therapy (Internal Medicine and Surgery)

Advanced study in Occupational Therapy for surgical and medical conditions, including attendance of ward rounds and clinical discussions, especially rheumatoid arthritis, cancer, cardiovascular, renal and eye conditions and burns.

(3) **NEUROLOGY**

Anatomical Pathology

Study of Neuropathology, including general Neuropathology and attendance of postgraduate discussions in Neuropathology.

Neurophysiology

Capita Selecta from Neurophysiology offered for the MMed degree course.

Occupational Therapy (Neurology)

Advanced study of Occupational Therapy for neurological conditions, with emphasis on treatment of adult patients.

(4) **PSYCHIATRY**

Groups in Occupational Therapy

Further study of the specialised group techniques in Occupational Therapy.

Sociology: *Capita Selecta* from Sociology (Hons).

Occupational Therapy: (Psychiatry)

Further study of the psychopathology of, and Occupational Therapy for mental retardation, organic mental disturbances, drug abuse, schizophrenia, affective,

psychosexual, adaptation and neurotic disturbances. More detailed study of one or more of the above, chosen in consultation with the Head of Department, and which includes the attendance of clinical discussions, ward rounds and clinics.

(5) PAEDIATRICS

Anatomical Pathology

Study of neuropathology, including lectures in general neuropathology, and attendance of postgraduate discussions in neuropathology.

Neurophysiology

Capita Selecta from neurophysiology offered for the MMed degree course.

Occupational Therapy (Paediatrics)

Continued study of Occupational Therapy for children with medical (including neurological), surgical (including orthopaedic) and psychiatric conditions. More detailed study of one or more of the above, chosen in consultation with the Head of the Department, and which includes the attendance of clinical discussions, ward rounds and clinics.

(6) GERIATRICS

Anatomical Pathology

Study of neuropathology, including lectures in general neuropathology and attendance of postgraduate discussions in neuropathology.

Neurophysiology

Capita Selecta from neurophysiology offered for the MMed degree course.

Occupational Therapy (Geriatrics)

Advanced study of Occupational Therapy in Geriatrics.

(7) OCCUPATIONAL REHABILITATION

Work study

Productivity. Method study – flow of materials, movement of workers in working space, method and movements at the work-place.

Work measurement – with the emphasis on predetermined motion-time systems to determine standard time for factory and clerical work. Maintaining optimal methods.

Ergonomics

Capita Selecta from Physiology, with emphasis on the respiratory system and cardiovascular system. Design factors, especially of furniture, equipment and layout of work plan. Environmental factors. Methods to examine work.

Financial Administration

Financial statements, budget; decision-making; cost behaviour; cost-volume relationships; cost allocation; manufacturing cost; costs of projects; process costs; activity costs; overhead costs; business planning.

Occupational Therapy (Occupational rehabilitation)

Advanced study of occupational rehabilitation services for one of the following fields of specialisation: Workshops for the handicapped; hospital-based occupational rehabilitation and occupational rehabilitation for disabled pupils.

(8) THERAPEUTIC MEDIA

Ergonomics

Design factors, especially of furniture, equipment and layout of work-place. Environmental factors. Methods to examine work. Capita Selecta from Physiology applicable to the selected therapeutic media.

Occupational Therapy (Therapeutic Media)

Advanced study of analysis of the physiological, kinetic and psychological claims of selected activities.

Activities must be chosen from one major medium and two additional media in consultation with the Head of the Department.

(9) ADMINISTRATION

Business Management – as in (7)

Financial Management	}	Introduction to this field of study.
Introduction to Management	}	
Sociology – as in (4)		
Introduction to Computer Science		
Training and Education Technology		

Occupational Therapy (Administration)

Advanced study in the theory and application of management in occupational therapy services.

SYLLABUSES FOR THE MASTER'S DEGREE IN OCCUPATIONAL THERAPY (course work)

Occupational Therapeutic Anatomy 802

Applied clinical anatomy of structures and systems as set out in the study manual for postgraduate Anatomy courses.

Occupational Therapeutic Anatomy 803

Applied clinical anatomy of structures and systems as set out in the study manual for postgraduate Anatomy courses.

Physiology 881

In-depth knowledge of applicable physiological aspects.

Anatomical Pathology 891

An in-depth knowledge of the pathology of selected conditions.

Theory in Occupational Therapy Practice 800

- (i) Perspectives on activity participation and the study of man as multi level system.
- (ii) Models for activity choices.
- (iii) Activity evaluation.

Occupational Therapy 800

Participation in discussion classes, ward rounds and clinics.

Occupational Therapy 801 (Biomechanics)

An in-depth study of Occupational Therapy for conditions where biomechanical and ergonomic treatment principles are predominantly applicable.

Occupational Therapy 802 (Neurology)

An in-depth study of Occupational Therapy as applicable to neurological conditions with adults.

Occupational Therapy 803 (Paediatrics)

An in-depth study of determining and treatment of children with different diagnoses.

Occupational Therapy 804 (Psychiatry)

An in-depth study of Occupational Therapy as applicable to psychiatric disturbances in adults and/or children.

Occupational Therapy 805 (Activity study)

An in-depth study of (i) classification, development of activity participation and its influence on health; (ii) bio-psychosocial perspectives on activity participation.

Psychopathology 800

An in-depth study of the psychopathology of psychiatric applicable diseases.

Sociology 810

Social therapy for interpretation of activity participation.

CURRICULUM FOR POSTGRADUATE DIPLOMA IN VOCATIONAL REHABILITATION

Vocational Rehabilitation 700

Continued training in the vocational rehabilitation process applied to various diagnostic groups.

Groups in Occupational Therapy CS701

Emphasis will be placed on role-playing and groups in acquiring employment-acquisition behaviour.

Work Study 701

Advanced study of methodics and work-measuring, including mastership of MODAPTS.

Business Management is an existing subject for the Postgraduate Diploma in Health Administration.

Financial Administration 702

Financial statements; budget; decision-making; behaviour of costs; cost-volume relation; allocation of costs; manufacturing costs, process of costs; activity costs; overhead costs; business planning.

CURRICULUM FOR POSTGRADUATE DIPLOMA IN INTERPERSONAL COMMUNICATION AND GROUP TECHNIQUES IN OCCUPATIONAL THERAPY
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Interpersonal Communication 700

Advanced knowledge of interpersonal processes. Acquiring interpersonal skills in various situations in Occupational Therapy.

Group Techniques 700

Cohesion and its creation in an occupational therapy situation. The role of interpersonal learning in therapeutic groups and its facilitation through the use of activities. The group leader - tasks and techniques of the occupational therapists. Indications for group work in occupational therapy and the selection of patient/client. Acquisition of practical skills.

SYLLABI FOR BRad

(RAW 100) Radiographic Sciences 100: (90 Tutorials)

Orientation to the course: Introduction to Radiographic Sciences, radiation protection, communication, management principles, departmental administration, patient-care, professional behaviour, information science, computer literacy.

Imaging: differential absorption, X-ray apparatus, construction and properties of screens, cassettes, films and grids, processing principles, exposure factors, properties of the radiographic image.

Radiographic procedures: introduction to pathology, routine examinations of the skeletal system, lungs and abdomen. Film evaluation. Radiographic anatomy and radiological pathology. Laboratory practicals and simulations. Clinical radiography. Problem-solving. Research project based on the syllabus content. Introduction to Nuclear Medicine and Radiation Oncology.

(RAW 201) Radiographic Sciences 201 (110 Tutorials)

Field of specialisation: Diagnostics

Patient-care. Nursing Care. Paediatrics and geriatrics. Trauma. Radiographics consultation. Ethical codes. Radiation protection. Management functions. Imaging: grid-ratios. Conventional tomography apparatus. Fluoroscopy apparatus. Panoramic unit. Contrast agents. Radiographic procedures for additional examinations of the skeletal system and conventional contrast agents examinations. Radiographic procedures for examinations in theatre and wards. Films evaluation. Radiographic anatomy and radiological pathology. Laboratory practicals and simulations. Clinical radiography. Problem-solving. Research project based on the syllabus content.

(RAW 301) Radiographic Sciences 301 (90 Tutorials)

Field of specialisation Diagnostics

Patient-care. Legal-medical aspects. Quality assurance. Principles of a reject film analysis. Film evaluation. Production management. Labour relations. Disciplinary procedures. Private practice management. Primary health care. Quality assurance tests. Sensitometry. Pattern recognition. Specifications. Image recording and processing. Laser and multi-format cameras. Reconstruction. Anatomy : cardiovascular system and cross-section anatomy. Radiographic procedures for computer tomography, angiography, myelography, ultrasound, MRI and mammography. Radiographic anatomy and radiological pathology. Principles of teaching methods. Clinical radiography. Research project based on the syllabus content.

(RAW 202) Radiographic Sciences 202 (110 Tutorials)

Field of specialisation: Radiation Oncology

Patient-care. Nursing Care. Paediatric and geriatric radiography. Radiographic consultation. Ethical codes. Radiation protection. Management functions. Fluoroscopy apparatus. Contrast agents. Radiation Oncology: Cancer epidemiology, prevention, early diagnosis and education. Biological and pathological introduction. Effects of radiation on normal tissue. Principles of management and dosage. Principles of dose planning. Non-malignant conditions. Cancer chemotherapy. Hormones in Oncology. Palliative and support care. Quality of life. Community care. Clinical Oncology. Immobilisation. Localisation. Measurements and contours. Dose planning. Treatment procedures. Quality assurance. Patient care. Equipment. Tumor Pathology. Radiation physics: Properties of external beams. Clinical Radiation Therapy. Research projects based on syllabus content. The above-mentioned applicable to the following tumors: Superficial, head and neck, thorax, digestive tract, breast, female reproductive system, urinary system, male reproductive system, lympho-reticular system, central nervous system, connective tissue.

(RAW 302) Radiographic Sciences 302 (120 Tutorials)

Field of specialisation: Radiation Oncology

Radiographic procedures for computerised tomography. Ultrasound. Magnetic resonance. Handling and formulation of data. Electronic data. Radiation Oncology: Medical complications of cancer. New development in Radiation Oncology and radiotherapy. Stereotactic radiotherapy. Advanced aspects of Clinical Oncology. Radiobiology. Immobilisation. Localisation. Measuring and contours. Dose planning. Treatment procedures. Quality assurance. Patient-care. Apparatus. Tumor pathology. Specialised dose planning. Less general treatment procedures. Radiation physics. Bragg therapy. Calibrations and dosage metrification. Clinical Radiation Oncology. Research projects based on syllabus content. The above-mentioned applicable to the following tumors: Surface, head and neck area. Thorax. Digestive system. Breast. Female reproductive system. Urinary system. Male reproductive system. Lympho-reticular system. Central nervous system. Connective tissue.

(RAW 203) Radiographic Sciences 203 (110 Tutorials)

Field of specialisation: Nuclear Medicine

Patient-care. Nursing Care. Paediatrics and geriatrics. Radiographic consultation. Ethical codes. Radiation protection. Management functions. Nuclear Medicine: Application and use of radio-nuclides and imaging procedures, including the study of the applicable psychological routes and pathophysiology of the body systems. Radio-chemistry: Definitions, principles and concepts. Radio-pharmacy: composition, production, preparation and biological behaviour of radio-pharmaceuticals. Instrumentation: Construction, design, handling and quality assurance of nuclear-medical apparatus components. Laboratory techniques: Preparation, handling and administration of radio-pharmaceutical agents, including handling of radioactive waste and record-keeping. Discussion sessions: Seminars based on the course content. Clinical nuclear medicine.

(RAW 303) Radiographic Sciences 303 (120 Tutorials)

Field of specialisation : Nuclear Medicine

Legal-medical aspects. Quality Assurance. Production management. Labour relations. Disciplinary procedures. Cross-section Anatomy. Nuclear Medicine: an in-depth study of the application and use of radio-nucleotides and imaging procedures, including the physiological routes, as well as the applicable pathophysiology of body systems. SPECT procedures. Understanding PET, radio immuno assays and in vivo investigating studies.

Laboratory techniques. Applied laboratory techniques with regard to in vivo/in vitro investigating studies, specialised laboratory marking methods. Instrumentation: SPECT, filters and quality control. Discussion sessions. Seminars based on the course content. Clinical nuclear Medicine.

(RFI 110, 210, 211, 310) Radiophysics

Consult the Afrikaans version of Rules and Syllabuses: Faculty of Medicine.

(FSG 102) Physiology 102 (61 Tutorials)

Biochemical principles, haematological and immunological principles, cytology and histology, cardiovascular system, neurophysiology, respiratory system, kidneys, acid-base equilibrium, digestive system, Metabolism, skin, endocrine system and reproduction, sexual system.

(RAN 100, 280, 380) Radiographic Anatomy 100, 280, 380 – Consult Anatomy syllabuses in this publication.

(MTS 200) Medical Applied Psychology 200 (60 Tutorials)

Introduction: Personality and behaviour, danger symptoms, "spiritual hygiene". Study methods. Basic psychological definitions: Terminology, schools, human modules. Development Psychology: Development theories, stages of development. Ecological context: Man in interaction with environment, groups, society. Illness: Phenomenology of the sick-bed, systems influencing, physical and psychiatric illnesses, the ill person and different reactions according to illness categories. Communication: Basic principles, one- and two-way communication. Consultation and interaction with other professions, team approach, colleagues, ethical action, referrals. Private practice: Management, professionalism, marketing, communication strategies, assertive action, self-worth, burn-out syndrome, handling of stress in the work situation, learning therapy. Therapy: Therapeutic schools, ethical aspects, Capita Selecta: Ergonomics, Research Methodology, Psychotherapeutic techniques.

Practical work: Integration, role-playing, videos, small groups, hospital visits.

(RAX 210) Radiobiology 210 (40 Tutorials)

Basic biological interactions of radiation. Cellular response to radiation. Tissue radiobiology. Modification of cell and tissue response. Radiation Pathology: Diagnostic Radiography, Nuclear Medicine and Therapeutic Radiography.

(AAP 310) General anatomical Pathology 310 (40 Tutorials)

General principles of Pathology, including necroses, reversible cell damage, reparation and abnormalities of growth, circulation disturbances, acute and chronic infections, classification of the spreading of tumors and carcinogenesis. Directed course in systematic pathology, with specific reference to cardiovascular system, respiratory system, locomotor system and neuropathology.

SYLLABUSES FOR BACCALAUREUS HONORES IN RADIOGRAPHY

1(a) DIAGNOSTICS: GENERAL

(RSD 701) Radiography 701 (Two lectures/discussion classes per week)

General Radiography. Mammography. Management principles (planning, organising, leading and control) of a general X-ray section. Implementation of a quality

assurance program in a general X-ray section. Radiographic Pathology. Teaching methods. Essay. Practical.

(ANP 703) Anatomic Pathology 703 (One lecture/discussion class per week)

Respiratory system: inflammations; bronchiectasis; occupational diseases of the chest; tumors of the lungs and pleura. Locomotor system: inflammation of bone; metabolic bone diseases, skeletal tumors.

Genito-urinary system: polycystic disease; chronic pyelonephritis; analgesic nephropathy; kidney tumors. Gastro-intestinal system: peptic ulcers; gastric carcinoma; polyps; ulcerative colitis and Crohn's disease; colon carcinoma.

(RAN 700) Radiographic Anatomy 700 (One lecture/discussion class per week)

Systematic study of the skeleton and joints. Analysis of the torso with emphasis on the heart and blood vessels, trachea, lungs, broncho-pulmonary segments; abdominal organs regarding their blood supply and relationship to one another; surface anatomy. The urinary system.

Study of the blood supply and ventricles of the brain. Paranasal sinuses.

b. DIAGNOSTICS: COMPUTER TOMOGRAPHY

(RSD 702) Radiography 702 (Two lectures/discussion classes per week)

Management principles (planning, organising, leading and control) of a computer tomography suite. Implementation of a quality assurance program in computer tomography. Radiographic Pathology. Teaching methods. Essay. Practical.

(ANP 703) Anatomic Pathology 703 (One lecture/discussion class per week)

Respiratory system: inflammations; bronchiectasis; occupational diseases of the chest; tumors of the lungs and pleura. Locomotor system: inflammation of bone; metabolic bone diseases; skeletal tumors. Genito-urinary system: polycystic disease; chronic pyelonephritis; analgesic nephropathy; kidney tumors. Upper gastro-intestinal system: peptic ulcers; gastric carcinoma; polyps; ulcerative colitis and Crohn's disease; colon carcinoma.

(RAN 700) Radiographic Anatomy 700 (One lecture/discussion class per week)

Systematic study of the skeleton and joints. Analysis of the torso with emphasis on the heart and blood vessels, trachea, lungs, broncho-pulmonary segments; abdominal organs regarding their blood supply and relationship to other organs; surface anatomy. The urinary system.

Study of the blood supply and ventricles of the brain. Paranasal sinuses.

c. DIAGNOSTICS: ANGIOGRAPHY

(RSD 703) Radiography 703 (Two lectures/discussion classes per week)

Management principles (planning, organising, leading and control) of an Angiography suite. Implementation of a quality assurance program in an Angiography suite. Radiographic pathology. Teaching methods. Essay. Practical.

(ANP 703) Anatomic Pathology 703 (One lecture/discussion class per week)

Respiratory system: inflammations; bronchiectasis; occupational diseases of the chest; tumors of the lungs and pleura. Locomotor system: inflammation of bone; metabolic bone diseases; skeletal tumors. Genito-urinary system: polycystic disease; chronic pyelonephritis; analgesic nephropathy; kidney tumors. Upper gastro-intestinal system: peptic ulcers; gastric carcinoma; polyps; ulcerative colitis and Crohn's disease; colon carcinoma.

(RAN 700) Radiographic Anatomy 700 (One lecture/discussion class per week)

Systematic study of the skeleton and joints. Analysis of the torso with emphasis on the heart and blood vessels, trachea, lungs, broncho-pulmonary segments; abdominal organs regarding their blood supply and relationship to other organs; surface anatomy. The urinary system.

Study of the blood supply and ventricles of the brain. Paranasal sinuses.

2. RADIATION ONCOLOGY**(SOZ 700) Radiation Oncology 700 (60 Tutorials)**

Specialised Radiation Oncology. Clinical Oncology. Tumor Pathology. Quality Assurance. Management of a radiation oncology section. Research project with essay.

(DSB 700) Dose Planning 700 (30 Tutorials)

Specialised external bundles planning. Stereotaxis. Bragie Therapy. Three-dimensional dose planning.

(OKG 700) Oncological Behaviour Sciences 700 (30 Tutorials)

Psychological and Sociological dimensions of the cancer patient.

3. NUCLEAR MEDICINE**(KDE 700) Nuclear Medicine 700 (60 Tutorials)**

Specialised Nuclear Medicine: Radio-immuno scintigraphy and radio-immuno-therapy with marked monoclonal antibodies. Specialised studies of brain, heart and tumors. Metabolic studies with PET\511 KeV SPECT. Research project with essay. Seminars: Minimum of two per student.

(RDF 700) Radiopharmacology 700 (30 Tutorials)

Radio-immuno assays. Specialised marking methods. Specialised in vivo/in vitro investigation studies. Principles of pharmaco-kinetic receptor imaging.

(INX 700) Instrumentation 700 (30 Tutorials)

Specialised principles and applications of PET\511 KeV collimated SPECT/511 KeV coincidence SPECT. Specialised computer application and processing.

SYLLABI FOR BPHYST**First Year****(ANA 101) Anatomy 101**

Consult Anatomy

(CMY 151) First course in Chemistry 151

Consult syllabus under MBChB 1 (1st year of study).

(FIL 182) Science and World Views 182

Consult syllabus under MBChB 1 (1st year of study).

(FTP 100) Physiotherapy 100 (5 l + practical)

Human Movement Science is included. Basic principles of movement, electrotherapy and massage. Human Movement Science theory and practical on normal movement, fitness, sport coaching and group activities.

(SOS 110, 120) Sociology 110, 120 (3 lectures + 1 hour prac. p.w.)

Consult Rules and Syllabuses : Faculty of Arts.

Second Year

Anatomical Pathology

(Consult syllabus at BOccTher)

(KGN 210) Clinical Medicine 210 (3 lectures/week)

Medical principles and its application in orthopaedics and surgery.

(VGK 210) Nursing 210 (Attendance)

Hospital routine, administration and documentation, basic nursing procedure, including an introduction to intensive care.

(FSG 100) Physiology 100 (6 l.p.w.+ prac.)

Biochemical principles, haematology and immunological principles, cytology and histology, cardiovascular system, neurophysiology, respiratory system, kidneys, acid-base equilibrium, digestive system, metabolism, skin, endocrine system and reproduction, sexual system.

(FTP 201) Physiotherapy 201 (Biomechanics) (8 hours/week lectures and prac + clinical discussions as applicable.)

Elementary problem-solving by means of application of basic principles, analysis of normal and abnormal movement, retraining posture and way of walking, mobilisation and strengthening, normal motor development, group work, proprioceptive neuromuscular facilitation, principles of rehabilitation, application of principles on clinical conditions.

(FTP 202) Physiotherapy 202 (Electro-biomechanics) (6 hours/week lectures and prac. + clinical discussions as applicable.)

Production of low and medium-frequency currents, ultrasound and ultra-violet light. Techniques, effects, precautionary measures. Care of apparatus. Soft tissue manipulation: application of basic principles on the human body; effect, uses and counter-indications. Human Movement Science: 1 lecture prac/week for 1 semester.

(SOS 210, 220) Sociology 210, 220 (3 l.p.w.+ 1 hour practical)

Consult Rules and Syllabuses: Faculty of Arts.

Third Year

(TFT 300) Applied Physiotherapy 300 (160 lectures/practicals: minimum 500 hours of clinical work, discussions and demonstrations.)

Application of physiotherapeutical principles on patients in different medical disciplines.

(KGN 312) Clinical Medicine 312 (4 l.p.w.)

The application of medical principles in Internal Medicine, Paediatrics, Obstetrics and Gynaecology, Community Health, Psychiatry.

(KGN 322) Clinical Medicine 322 (4 l.p.w.)

The application of medical principles in Neurology and Neuro-surgery, Internal Medicine, Radiation Oncology and Chemotherapy, Rheumatology.

(FTP 301) Physiotherapy 301 (Bio-mechanics) (6 lectures/prac p.w.)

Proprioceptive neuromuscular facilitation, mobilisation and strengthening according to case studies, group work, rehabilitation.

(FTP 302) Physiotherapy 302 (Electro-biomechanics) (6 lectures/prac. p.w.)

Production of high frequency currents, techniques, effects, precautionary measures; taking care of apparatus.

Specialised techniques of soft tissue manipulation.

Fourth Year**(FTP 400) Physiotherapy 400 (300 lectures/practicals) (minimum of 700 hours of clinical work)**

Physiotherapeutical treatment of patients in different medical disciplines. Ethics, administration and principles in managing a private practice. Clinical demonstrations/discussions. Completion of a project.

SYLLABI FOR BDIETETICS**1. COURSES OFFERED BY THE DIVISION HUMAN NUTRITION:****(DTE 310) Diet Therapy 310 (3 lectures and 1 x 2 hours practical)(6 credits)**

The role of the clinical dietician in the nutritional care of patients in the hospital and private practice.

Nutrition advice: determination of needs, planning, implementation and evaluation. Food exchange lists. Diet analysis with the help of tables and computer. Applicable assignments and case studies.

(DTE 321) Diet Therapy 320 (Attendance)

Practical training.

(DTE 480) Diet Therapy 480 (6 lectures and 2 x 2 hours practical)(16 credits)

The role of diet and nutrition in the aetiology and treatment of diseases of the gastrointestinal tract and related organs; hypertension, hyperlipoproteinaemia, coronary heart disease; disorders of the renal system. Dietary management of allergies, inborn errors of metabolism and gout, cancer and AIDS. Nutrient-drug interactions. Special feeding methods and products. Appropriate practical assignments and case studies (practice of the nutrition care process).

(DTE 481) Diet Therapy 481 (8 weeks)

Practice training.

(VDB 481) Food Service Management 481 (6 weeks)

Practice training.

(SEM 223) Seminar 223 (3 lectures)(6 credits)

Orientation towards the dietetics profession. Definition, philosophy, development.

SEM 410) Seminar 410 (1 lecture and 1 x 3 practical)(5 credits)

Professional orientation and finish, and organised liaison and integration with the practice.

(NAV 480) Research Project 480 (2 lectures and 1 x 3 hours practical)

Introduction to research methodology and the planning and execution of a research project in dietetics.

(VDG 230) Human Nutrition 230 (3 lectures and 1 x 2 hours practical)(8 credits)

In-depth study of macro and micro nutrients and nutritional processes: chemical and physical properties, food sources, metabolism, needs, toxicity, primary deficiencies associated with each nutrient. Energy metabolism. Appropriate practical assignments and case studies.

(VDG 240) Human Nutrition 240 (3 lectures and 1 x 2 hours practical)(8 credits)

Dietary standards and ration scales. Nutrition in the life cycle. Influence of diet and change of life style in South African context on non-communicable diseases. Appropriate practical assignments and case studies.

(VDG 480) Applied Nutrition 480 (6 lectures and 1 x 2 hours practical)(14 credits)

Community nutrition in the South African context; food insecurity; nutrition needs assessment; analysis of causes; intervention with regard to programme planning for nutrition education, food supplementation, various micronutrient approaches; application to vulnerable groups.

(VDG 481) Applied Nutrition 481 (6 weeks)

Practice training.

(VDG 482) Project Nutrition 482 (2 lectures)(4 credits)

Literature study on a dietetics topic.

2. OTHER COURSES:

(FAR 305) Pharmacology 305 (90 periods)

Receptors, antagonism, kinetic concepts. Medicines with regard to: autonomous and central nervous system, asthma, hypertension, angina and pain. Antibiotics and other anti-infective medicines. Medicines for local anaesthetics, anaesthesia, migraine, digestive tract and podagra. Hormones and vitamins.

Consult Rules and Syllabuses: Faculty of Science and Technology for syllabi mentioned below:

(CMY 112) First course in Chemistry 112

(CMY 122) General Chemistry 122

(PHY 131) General Physics 131
(STK 110) Statistics 110

Consult Rules and Syllabuses: Faculty of Science and Technology for syllabi mentioned below:

(MBY 120) Introductory Microbiology 120
(MLB 111) Molecular and Cell Biology 111
(BCM 216) Proteins and Enzymes 216
(BCM 217) Carbohydrate Metabolism 217
(BCM 226) Lipid and Nitrogen Metabolism 226
(BCM 227) Biosynthesis of Macromolecules 227
(ERG 110) Ergonomics 110
(SEM 180) Seminar 180
(VDG 120) Nutrition 120
(VDS 110) Food 110
(VDS 210) Food 210
(VDS 221) Food 221
(VDS 320) Food 320
(VDB 320) Food Service Management 320
(VLG 310) Extension 310
(VLG 320) Extension 320

MEDALS, PRIZES AND TROPHIES AWARDED IN THE FACULTY

Name	Donor	Award
MBChB VI		
Smith & Nephew Gold Medal	Smith & Nephew	For best achievement in Orthopaedics
LJ te Groen Medal	Clinical Assistants in the Department of Obstetrics and Gynaecology	For best achievement in Obstetrics and Gynaecology
Frikkie Engels Prize	Mrs B. Engels	For the best student in Urology
Wyeth Award	Wyeth (SA)	For the second highest achievement in Obstetrics and Gynaecology
Nestlé Prize	Nestlé (SA) (Pty) (Ltd)	For the best student in Paediatrics
Protea Holdings Prize	Protea Holdings	(i) For best achievement in Internal Medicine (ii) For best achievement in Surgery
Ethicon Prize	Ethicon(Pty)Ltd	For best continuous academic achievement as student-intern
Society of Psychiatrists of SA Medal	Society of Psychiatrists of SA	For the best final year student in Psychiatry
Rhône-Poulenc Rorer Prize	Rhône-Poulenc (SA)(Pty) Ltd	For best achievement in Psychiatry
John Struthers Prize	Gauteng Branch of the SA Medical Association	To the student who contributed most to student community life
MBChB V		
Boehringer Ingelheim Prize	Boehringer Ingelheim (Pty) Ltd	For best achievement in Family Medicine
UCB Pharma Prize	UCB Pharma	For best achievement in Otorhinolaryngology
Protea Medical Services/ Welch Allyn Prize	Protea Medical	For best achievement in Ophthalmology
SA Society of Anaesthetists Medal (Horace Wells Medal)	SA Society of Anaesthetists	For best achievement in Anaesthesiology
MBChB IV		
Adcock Ingram Prize	Adcock Ingram Ltd	For best student overall
Chemical Pathology Prize	Department Chemical Pathology	For best achievement in Chemical Pathology
Du Buisson and Partners Prize	Du Buisson and Partners	For best achievement in Pathology (based on third and fourth-year subjects)

Name	Donor	Award
JD Loubser Stipend	Department Forensic Medicine	For the best student in Forensic Medicine
JL van Schaik Publishers Prize	J L van Schaik Publishers	For best achievement in Surgery
Protea Medical Services/ Welch Allyn Prize	Protea Medical	For best achievement in Otorinolaryngology
MBChB III		
Akromed Prize	Akromed (Isando)	For the best progress in Pharmacology for the duration of studies
Novartis Prize	Novartis	For best achievement in all fields of Pharmacology
Rhône-Poulenc Rorer Prize	Rhône-Poulenc Rorer (SA) (Pty) Ltd	For the most deserving achievement in Pharmacology
Foundation for Poliomyelitis Research Prize	Foundation for Poliomyelitis Research	For best achievement in Virology
Dyson and Partners Prize	Dyson and Partners	For the best student in Anatomy Pathology
MBChB II		
JD Ackermann Prize*	Prof JD Ackermann	For best achievement in Anatomy 200 (MBChB/BChD).
HS Ebrahim Memorial Medal	Joosub HS Ebrahim Foundation	For best achievement in Homeostasis
Bern Meyer Prize*	Prof BJ Meyer	For the second-highest achievement in Homeostases 210 (MBChB/BChD)
Prizes for BSc degree students specialising in Medical Sciences		
J J Theron Prize	Dr F Theron	For the best student in Physiology at 300 level
Somarie Grey Shield	Prof S V Grey	For the best student in Histotechnique at 300 level
Wirsam Scientific Prize	Wirsam Scientific (Pty) Ltd	For the best student in Anatomy 301
Prizes for students in Nursing		
BirthCare Institute Floating Trophy	BirthCare Institute	For the best student in Midwifery (theory and practical)
BCur House Floating Trophy	BCur House Committee	For the third-year student who achieved distinctions in at least two subjects and an overall average of at least 65%
Charlotte Searle Floating Trophy	Prof Charlotte Searle	For the student who demonstrated the most compassion during practice in any study year

Name	Donor	Award
Cronjé Floating Trophy	Mrs Cronjé	For the best first year student in Nursing, who achieved at least 75% in one subject, with an average mark of at least 65% for the year
Protea Bookstore Prize	Protea Bookstore	For the student who scored the highest marks in Nursing Practice (above 70%) in the first, second and third year of study respectively
Hedi van Wyk Floating Trophy	Mrs H van Wyk	For the best achievement in Primary Health for all the Nursing subjects
Henriëtte Stockdale Floating Trophy	SA Nursing Association	To the senior student with the most professional attitude during the year
Hoëveld Brokers Floating Trophy	Hoëveld Brokers	For the second year student who achieved distinctions in at least two subjects, with an overall average of at least 65%
JD Ackermann Prize	Prof JD Ackermann	For best achievement in Anatomy 102 for Nursing
Prizes for Physiotherapy students		
Boehringer Ingelheim Prize	Boehringer Ingelheim	For the best final-year student in Physiotherapy
Van Schaik Prize	Van Schaik Bookstore (Pty) Ltd	For the best final-year student in clinical practice of Physiotherapy
Mediotronics Prize	Mediotronics (Pty) Ltd	For the best research project in the final year of Physiotherapy
Van Schaik Prize	Van Schaik Bookstore (Pty) Ltd	For the second-best research project in the final year of Physiotherapy
Private Practice Association of SA Physiotherapy Society Prize	SAFV/PPA	For the best third-year student in Physiotherapy in the Clinical Practice
Protea Bookstore Prize	Protea Bookstore	For the best first-year student
Mediotronics Prize	Mediotronics (Pty) Ltd	For the best third-year student in Physiotherapy
SA Physiotherapy Association(Northern Gauteng) Prize	SA Physiotherapy Association (Gauteng)	For the best third-year student in Physiotherapy (Academic)
Tech Pulse Prize	Tech Pulse Group of Companies	For the best second-year student in Physiotherapy

Name	Donor	Award
Prizes for Radiography students		
AGFA-Gevaert Rose Bowl Prize	AGFA	For the most versatile student in the final year of study
Berlimed-Schering Floating Trophy	Berlimed Schering	For the best academic achievement in the first year
Johnson & Johnson Prize	Johnson & Johnson	For the best student in Radiographic Anatomy (RAN 100) in the first year of study
Phillips Trophy	Phillips (Johannesburg)	For the student who achieved the highest marks in Medical Physics in the third year of study
Processor Services Prizes	Genesis Electro Medical	For best achievement in Radiographic Imaging by a first and second year student respectively
Protea Medical Prize	Protea Services	(i) For the best academic student in the final year (ii) For the best academic student in BRad(Hons). (iii) For the best practical BRad(Hons) student
XIS Medals	X.I. Services	For the student who performed best in patient-care during the year in the first, second and third year respectively
Instant Image Prize	Instant Image	For best achievement in Radiographic Imaging in the final year
Republic Hearing Instruments Siemens Prize	Republic Hearing Instruments	For the best student in Anatomy for Speech Therapy
Prizes for Occupational Therapy students		
Vona du Toit Trophy	Dr S du Toit	For the highest marks in the final year of Occupational Therapy
Northern Gauteng Branch of Occupational Therapists Trophy	Gauteng Regional Branch Group of the SA Association of Occupational Therapy	For the best student overall in studies for the Occupational Therapy degree
Clinical Emergencies Trophy	Clinical Emergencies (Pty) Ltd	For the highest marks in the final year for the physical aspects of Occupational Therapy

Name	Donor	Award
Prof W Bodemer Trophy	Prof W Bodemer	For the highest marks in the final year for the psychiatric section of Occupation Therapy
Otasa/UP Staff Award		For the best research project in the final year of Occupational Therapy
Hennie Geyer Prize		For the highest marks in Interpersonal Communication in the final year of Occupational Therapy
Smith & Nephew Award	Smith & Nephew	For the highest marks in clinical practice in the third and fourth year of Occupational Therapy studies
A de Wet Prize	Mrs Alma de Wet	For the highest marks in Paediatric Occupational Therapy in the third year
Protea Bookstore Prize	Protea Bookstore	For the highest average in the second year of studies
Medop Prize	Medop	For the highest average in the first year of study
Van Schaiks Prize	Van Schaiks	For the highest average in the third year of studies
Prizes for Dietetics students		
Protea Bookstore Prize	Protea Bookstore	For the best academic achievement in the first, second and third year respectively
Nestlé Award	Nestlé	For the best overall academic achievement for the BDietetics degree
Nestlé Book Prize	Nestlé	For the best achievement in Applied Nutrition 481 for the BDietetics degree
Eli Lilly Prize	Eli Lilly	For the best achievement in Nutrition 480 and 481 for the BDietetics degree
Pharmacia & Upjohn Award	Pharmacia & Upjohn	For the highest achievement in Diet Therapy 480 and 481 for the BDietetics degree
Ross (Abbott) Special Award	Ross (Abbott)	–
ADSA (Pretoria) Special Award	ADSA (Pretoria)	For the highest marks in practicals during the internship for the BDietetics degree

Name	Donor	Award
Other		
Vice-Chancellor and Principal's Certificate:		
Awarded for exceptional undergraduate academic achievement		
SRC Honourary Medal	Student Representative Council	For the student who contributed most to student life at UP

* Not limited to the Faculty of Medicine

The Afrikaans text of this publication is the official version and will be given precedence in the interpretation of the content.