Medium of Instruction

The medium of instruction at the University of Limpopo, Medunsa Campus is English.

Validity

This Calendar is valid for the year 2009. The right is reserved to amend any rule or provision at any time without prior notice. No responsibility is accepted for possible inaccuracies.

University Terms 2009

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easter Recess</td>
<td>19 March</td>
<td>20 July</td>
</tr>
<tr>
<td>Winter Recess</td>
<td>27 March</td>
<td>26 June</td>
</tr>
<tr>
<td></td>
<td>17 July</td>
<td>15 May</td>
</tr>
<tr>
<td></td>
<td>27 March</td>
<td>04 December</td>
</tr>
</tbody>
</table>

Correspondence

All correspondence to be addressed to: The Registrar
University of Limpopo
Box 60
P O MEDUNSA
0204

Telegraphic address: Medunsa Campus
Telephone number: +27(0)12 521-4059/4203
Telefax: +27(0)12 521-5732/4636
E-mail Address: hlatshwayo@ul.ac.za
              ppotgiet@ul.ac.za
# CONTENT

<p>| Message from the Faculty of Health Sciences | 5 |
| School Vision and Mission | 6 |
| School Committees | 6 |
| Members of Staff | 7 |
| Faculty of Health Sciences Rules | 17 |
| School of Medicine Rules | |
| <strong>A</strong> General Rules | 29 |
| <strong>B</strong> Rules for Undergraduate Study | 31 |
| <strong>C</strong> Rules for Postgraduate Study | 32 |
| <strong>D</strong> Rules for Honours Degree Study | 32 |
| <strong>E</strong> Rules for Masters Degree Study | 33 |
| <strong>F</strong> Rules for Doctoral Degree Study | 34 |
| <strong>G</strong> Undergraduate Programmes | |
| <strong>SMb</strong> Undergraduate Degree Programmes | <strong>ABBREVIATION</strong> | <strong>CODE</strong> | <strong>PAGE</strong> |
| SMb1 Bachelor of Medicine and Bachelor of Surgery | MBChB | 001 | 35 |
| SMb2 Bachelor of Diagnostic Radiography | BRad (Diagn) | 006 | 42 |
| <strong>H</strong> Postgraduate Programmes | |
| <strong>SMH</strong> Honours Degree Programmes | <strong>ABBREVIATION</strong> | <strong>CODE</strong> | <strong>PAGE</strong> |
| SMH1 Bachelor of Science (Medical) (Honours) | BSc (Med) (Hons) | 064 | 47 |
| SMH2 Bachelor of Science in Medical Physics (Hons) | BSc (Med) (Hons) in Medical Physics | 073 | 48 |
| SMH3 Bachelor of Science Medical Honours in Environmental Health. | BSc (Med) (Hons) in Environmental Health | 071 | 49 |
| SMH4 Bachelor of Science in Physiology | BSc (Med) (Hons) in Physiology | 071 | 49 |
| <strong>SMM</strong> Masters Degree Programmes | <strong>ABBREVIATION</strong> | <strong>CODE</strong> | <strong>PAGE</strong> |
| SMM1 General Regulations for M Med Degree Programmes (Excluding M Fam Med) | 50 |
| SMM2 Master of Medicine (Anaesthesiology) | M Med (Anaes) | 025 | 55 |
| SMM3 Master of Medicine (Community Health) | M Med (Comm Health) | 029 | 56 |
| SMM4 Master of Medicine (Dermatology) | M Med (Derm) | 030 | 56 |
| SMM5 Master of Medicine (Family Medicine) | M Med (Fam Med) | 052 | 57 |</p>
<table>
<thead>
<tr>
<th>NO</th>
<th>DEGREE</th>
<th>ABBREVIATION</th>
<th>CODE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMM6</td>
<td>Master of Medicine (Internal Medicine)</td>
<td>M Med (Int)</td>
<td>034</td>
<td>59</td>
</tr>
<tr>
<td>SMM7</td>
<td>Master of Medicine (Neurology)</td>
<td>M Med (Neur)</td>
<td>037</td>
<td>60</td>
</tr>
<tr>
<td>SMM8</td>
<td>Master of Medicine (Neurosurgery)</td>
<td>M Med (Neur Chir)</td>
<td>038</td>
<td>61</td>
</tr>
<tr>
<td>SMM9</td>
<td>Master of Medicine (Nuclear Medicine)</td>
<td>M Med (Nucl Med)</td>
<td>094</td>
<td>62</td>
</tr>
<tr>
<td>SMM10</td>
<td>Master of Medicine (Obstetrics &amp; Gynaecology)</td>
<td>M Med (O et G)</td>
<td>039</td>
<td>62</td>
</tr>
<tr>
<td>SMM11</td>
<td>Master of Medicine (Occupational Medicine)</td>
<td>M Med (Occ Med)</td>
<td></td>
<td>62</td>
</tr>
<tr>
<td>SMM12</td>
<td>Master of Medicine (Ophthalmology)</td>
<td>M Med (Ophth)</td>
<td>040</td>
<td>63</td>
</tr>
<tr>
<td>SMM13</td>
<td>Master of Medicine (Orthopaedics)</td>
<td>M Med (Orth)</td>
<td>041</td>
<td>64</td>
</tr>
<tr>
<td>SMM14</td>
<td>Master of Medicine (Otorhinolaryngology)</td>
<td>M Med (ORL)</td>
<td>042</td>
<td>64</td>
</tr>
<tr>
<td>SMM15</td>
<td>Master of Medicine (Paediatrics &amp; Child Health)</td>
<td>M Med (Paed)</td>
<td>043</td>
<td>65</td>
</tr>
<tr>
<td>SMM16</td>
<td>Master of Medicine (Plastic Surgery)</td>
<td>M Med (Plast Chir)</td>
<td>045</td>
<td>65</td>
</tr>
<tr>
<td>SMM17</td>
<td>Master of Medicine (Psychiatry)</td>
<td>M Med (Psych)</td>
<td>046</td>
<td>66</td>
</tr>
<tr>
<td>SMM18</td>
<td>Master of Medicine (Psychiatry) (Child Psychiatry)</td>
<td>M Med (Psych) (Child Psychiatry)</td>
<td>060</td>
<td>67</td>
</tr>
<tr>
<td>SMM19</td>
<td>Master of Medicine (Radio Diagnostics)</td>
<td>M Med (Rad Diagn)</td>
<td>047</td>
<td>67</td>
</tr>
<tr>
<td>SMM20</td>
<td>Master of Medicine (Radiotherapy)</td>
<td>M Med (Rad Ther)</td>
<td>048</td>
<td>68</td>
</tr>
<tr>
<td>SMM21</td>
<td>Master of Medicine (Surgery) (General)</td>
<td>M Med (Gen Chir)</td>
<td>049</td>
<td>68</td>
</tr>
<tr>
<td>SMM22</td>
<td>Master of Medicine (Thoracic Surgery)</td>
<td>M Med (Thor Chir)</td>
<td>050</td>
<td>68</td>
</tr>
<tr>
<td>SMM23</td>
<td>Master of Medicine (Urology)</td>
<td>M Med (Urol)</td>
<td>051</td>
<td>69</td>
</tr>
<tr>
<td>SMM24</td>
<td>Master of Science (Medical)</td>
<td>MSc (Med)</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>SMD</td>
<td>Doctors Degree Programmes</td>
<td>ABBREVIATION</td>
<td>CODE</td>
<td>PAGE</td>
</tr>
<tr>
<td>SMD1</td>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td></td>
<td>71</td>
</tr>
<tr>
<td>SMD2</td>
<td>Doctor of Medicine</td>
<td>MD</td>
<td></td>
<td>72</td>
</tr>
<tr>
<td>SMD3</td>
<td>Doctor of Medical Science</td>
<td>DSc Med</td>
<td></td>
<td>73</td>
</tr>
<tr>
<td>SmDip</td>
<td>Postgraduate Diploma Programmes</td>
<td>ABBREVIATION</td>
<td>CODE</td>
<td>PAGE</td>
</tr>
<tr>
<td>SmDip1</td>
<td>General rules</td>
<td></td>
<td></td>
<td>75</td>
</tr>
<tr>
<td>SmDip2</td>
<td>Diploma in Medical Physics (Temporarily discontinued)</td>
<td>Dip Med Phys</td>
<td>155</td>
<td>75</td>
</tr>
<tr>
<td>SmDip3</td>
<td>Diploma in Maternal and Child Health</td>
<td>Dip MCH</td>
<td>148</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>Syllabus</td>
<td></td>
<td></td>
<td>76</td>
</tr>
</tbody>
</table>
MESSAGE FROM THE FACULTY OF HEALTH SCIENCES: SCHOOL OF MEDICINE

Welcome to the School of Medicine in the Faculty of Health Sciences. The year 2008 has drawn to a closure and 2009 brings new challenges to all of us. New challenges to the newly appointed Heads of Departments, new challenges for permanent appointments in all the leadership positions in the Faculty of Health Sciences at large. To ignore this reality will be like digging our own graves.

From the outset, let us all resoundingly accept that our School has 29 fully accredited departments by HPCSA. That is a reality we cannot ever wish away. A department being a division of a large organization, in our case, the School of Medicine, dealing with a specific area of activity and expertise. This reality must be recognized and supported. To think otherwise cannot be justified by any evidence, for what actually happens cannot necessarily be substituted by what we wish to happen. As we double our efforts to overcome new challenges, let us remember that an imperfect society produces imperfect individuals and imperfect individuals make for an imperfect society.

One cannot have justice, stability and prosperity in a society without having them in individuals, nor vise versa – justice is harmony in between natural constituents and correspondingly injustice is disharmony. As we impart new knowledge to the new cadre of health workers, let us attain a vision of good leadership which will illuminate them like the blinding light of the sun. Let us guard against self-righteousness, for if we think we know all ultimate truths, it will be easy for us to be intolerant of anyone who disagrees.

Our undergraduate curriculum under girded by the Institutions mission, vision and motto in the pursuit of empowering the disadvantaged communities in Southern Africa defines knowledge as a gift and education as establishing an environment that facilitates learning. Our supreme objective is always to produce Health Scientists and health care workers of high academic, moral, ethical and professional standards. We will always strive to provide a stimulating learning environment in which all students from various backgrounds and motivations are encouraged to achieve their true potential.

We will forever endeavour to inculcate the ethos and habits of life long learning. We are acutely aware that every person in South Africa has the right to

a) access to health care services including reproductive health
b) emergency medical treatment

We need to reinforce in our new cadres the following challenges and give advice to address them promptly and profoundly.

- The unacceptably high infant mortality rate amongst African children
- Rural people access to more affordable health centres
- Health services access to elderly people and people with disabilities

Our Research activities, though not achieving projected goals, are heartening indeed. Let us as individuals who are passionate of our school and institution set targets for 2009. A realization of this dream will see a major boost in our third stream income. Let us not be afraid of tomorrow, for we have seen yesterday and invariably we love tomorrow.

Our Research destiny is not a matter of chance; it is a matter of choice. It is not a thing to be waited for; it is a thing to be achieved. Remember to be vanquished and yet not surrender, is victory. What reinforcements we may gain from hope, if not, what resolution from despair?

Our new curriculum has produced the first group of health workers. The HPCSA has lauded this curriculum despite all the problems we encounter daily. Let us soldier on to do the best we can as a new paradigm in medical education and health care delivery is our imperative.
Upon this gifted age, in its dark hour, rains from the sky a meteoric shower, of facts so profound that lie unquestioned, uncombined wisdom enough to leech us all of our ills.

Have a blessed, healthy and memorable 2009!

PROF P S MNTLA
DIRECTOR: SCHOOL OF MEDICINE

SCHOOL VISION & MISSION

VISION

To be a leading African University School of Medicine, epitomising excellence and global competitiveness, addressing the needs of rural communities through innovative and robust research initiatives.

MISSION

A world class School of Medicine responding to education, research and community development needs always; endeavouring to train quality health care workers with empathy, consciousness and lust for community-based research.

COMMITTEES

<table>
<thead>
<tr>
<th>SBM</th>
<th>School Board of Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDEX</td>
<td>Executive Committee of Medicine</td>
</tr>
<tr>
<td>APC</td>
<td>Academic Planning Committee</td>
</tr>
<tr>
<td>CDC</td>
<td>Curriculum Development Committee</td>
</tr>
<tr>
<td>SSC</td>
<td>Student Selections Committee</td>
</tr>
<tr>
<td>EC</td>
<td>Examinations Committee</td>
</tr>
<tr>
<td>MAC</td>
<td>Medical Advisory Committee</td>
</tr>
</tbody>
</table>
# STAFF MEMBERS

## Faculty of Health Sciences

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Dean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Executive Secretary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assistant Registrar</td>
<td>Malope AS, Ms BA Hons (Unin) CLAB (UL)</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## School of Medicine

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director</td>
<td>Mntla PS, Prof MBChB (MEDUNSA), FCP (SA)</td>
<td></td>
</tr>
<tr>
<td>Personal Assistant (Secretary)</td>
<td>Mphahlele RM, Ms</td>
<td></td>
</tr>
<tr>
<td>Senior Administrative Officer</td>
<td>Maseko JM, Ms</td>
<td></td>
</tr>
<tr>
<td>Administrative Officer</td>
<td>Laka FL, Ms</td>
<td></td>
</tr>
<tr>
<td>Assistant Administrative Officer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Assistant (Messenger)</td>
<td>Lehabe EN, Ms</td>
<td></td>
</tr>
</tbody>
</table>

## Anaesthesiology

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>*Matsipa J, MBChB, MMed (Anaes)</td>
<td></td>
</tr>
<tr>
<td>Princ. Specialist/Snr Lecturer</td>
<td>Bhagwandass DR, MBBS (Mysore), MMed (Anaes)</td>
<td></td>
</tr>
<tr>
<td>Princ. Specialist/Snr Lecturer</td>
<td>Bitumba JLY, MMed (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Snr Specialist</td>
<td>John MC, MMed (Anaes) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Snr Specialist</td>
<td>Malik AA, MBBS, Punjab, MMed (Anaes) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Gumbo BC, MMed (Anaes) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Baloyi BJ, MMed (Anaes) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Rammego R, MMed (Anaes) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist (sessions)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## PROVINCIAL UNITS / DIVISIONS

### Limpopo Province

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Specialist</td>
<td>*Maboya ME, BSc (UNIN), MBChB, MMed (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Princ. Specialist</td>
<td>Gibango M, MD (Kinshasa), MMed Anaest (MEDUNSA)</td>
<td></td>
</tr>
</tbody>
</table>

## Anatomy

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>Green ED, BSc (Hons), MSc (UP), THOD, BEd (Unisa), Nat Dip (Nat Cons)</td>
<td></td>
</tr>
<tr>
<td>Professor (contract)</td>
<td>Missankov AA, MBChB, MSc, PhD</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>Ackermann PC, B MedSc (UOVS), MMed Sci (UP), D Phil (UP)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>Aasvat R, B MedSc (UDW), MSc (Wits)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>*Human HR, BSc (PU), BMedSci HED (UP), MSc (Med) (MEDUNSA), Tax Cert (UNISA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>Humphries P, BSc (Hons), MSc (UP)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>Lebena GT, MBChB (Makerere), MSc Med (MEDUNSA)</td>
<td></td>
</tr>
</tbody>
</table>
### Cardiology

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>Mntla PS</td>
<td>MBChB (MEDUNSA), FCP (SA)</td>
</tr>
<tr>
<td>Srn Lecturer/Principal specialist</td>
<td>Rautenbach</td>
<td>PGD, BJuris, LLB, BA (Hons) Psychology, MBChB, MMed (Civ), FCPHM(SA)(Occupational Medicine)</td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Perreira da Silva AN</td>
<td>MD, M Med (UP)</td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Mutati P</td>
<td>MBChB (Zambia), MMed (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Snr Specialist</td>
<td>Mpe MT</td>
<td>MMed (MEDUNSA), FCP (SA)</td>
</tr>
</tbody>
</table>

### Community Health

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>Rautenbach</td>
<td>PGD, BJuris, LLB, BA (Hons) Psychology, MBChB, MMed (Civ), FCPHM(SA)(Occupational Medicine)</td>
</tr>
<tr>
<td>Srn Lecturer/Principal specialist</td>
<td>Sema AR</td>
<td>MBChB (MEDUNSA), FC Derm (SA)</td>
</tr>
<tr>
<td>Srn Lecturer/Snr Specialist</td>
<td>Amha T</td>
<td>MBChB (Leipziger), FC (Derm) (WITS)</td>
</tr>
</tbody>
</table>

### Dermatology

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>Motswaledi MH</td>
<td>MBChB (MEDUNSA), MMed (Derm), FC Derm (SA)</td>
</tr>
<tr>
<td>Principal Specialist/Snr Lecturer</td>
<td>Dlamini P</td>
<td>MBChB</td>
</tr>
<tr>
<td>Specialist/Lecturer</td>
<td>Mathekga K</td>
<td>MBChB</td>
</tr>
<tr>
<td>Specialist/Lecturer</td>
<td>Newaj R</td>
<td>MBChB</td>
</tr>
</tbody>
</table>

### PROVINCIAL UNITS / DIVISIONS

**Limpopo Province**

**Professor/Chief Specialist**
- *Rautenbach* PGD, BJuris, LLB, BA (Hons) Psychology, MBChB, MMed (Civ), FCPHM(SA)(Occupational Medicine)

**Snr Lecturer/Principal specialist**
- Sema AR, MBChB (MEDUNSA), FC Derm (SA)

**Senior Specialist/Lecturer**
- Amha T, MBChB (Leipziger), FC (Derm) (WITS)
Diagnostic Radiology and Imaging

Professor/Chief Specialist  *Mngomezulu V, MBBCh (Wits), F C Rad (D)
Princ. Specialist/Snr Lecturer  Kisansa ME, MBChB (Makerere), MMed (Rad) Diag
Snr Specialist/Snr Lecturer  Baxa M, MD (Olomouc), MMed (Rad) Diag (MEDUNSA)
Snr Specialist/Snr Lecturer
Snr Specialist/Snr Lecturer
Specialist  Mabiletsa MA, BSc, MBChB (MEDUNSA), M.Med (Rad) (Diag) (MEDUNSA), F.C. Rad (SA)
Specialist  Ojo A, MB BS (Ilorin) M.Med (Rad) F.C. Rad (D)
Specialist  Makama J Z, MBChB (MEDUNSA) M.Med (Rad)
Specialist (part-time)  van Niekerk IA, MBChB (Stellenbosch), MMed (Rad) Diag (UP)
Specialist (part-time)  Jansen van Rensburg M, MBChB, MMed (Diag) (UP), FRCR (UK), FRACR (Australia)
Specialist (part-time)  Monopathi PF, MMed (Rad) (Diag) (MEDUNSA)

PROVINCIAL UNITS / DIVISIONS

Limpopo Province
Principal Specialist/Snr Lecturer  Jhetam K, MBChB (WITS), FCRad (SA)
Principal Specialist/Snr Lecturer  Modishi MH, MBChB (MEDUNSA), FCRad (SA)

Emergency Medicine

Snr Family Pract./Snr Lecturer  *Lubinga W, MBChB (Makerere, Uganda), M Fam Med (MEDUNSA)

Family Medicine & Primary Health Care

Central Department - Medunsa Campus / Dr. George Mukhari Hospital
Chief Family Pract. / Chief Specialist & Head of Department  **Mbokazi AJ, BSc (Zululand), MBChB, M Fam Med (Natal)
Family Medicine Resource Centre Manager  Erasmus ML, B Bibl (Hons)
Applied Social Science Lecturer  Pretorius D, BA Hons (Psych)
Snr Medical Technical Officer

PROVINCIAL UNITS / DIVISIONS

Gauteng Province
Academic Head, Princ. Specialist /Snr Lecturer  **Mabuza LH, MBChB, M Fam Med (MEDUNSA)
Princ. Family Pract. / Snr Lecturer  Ndimande JV, MBChB, M Prax Med (MEDUNSA)
Snr Family Pract./Snr Lecturer  Makhubu MJ, MBChB, M Prax Med (MEDUNSA)

Limpopo Province
Chief Family Pract./ Snr Lecturer  (Academic Head & Acting Dean Polokwane Campus
Princ. Family Pract./Snr Lecturer  *Mbokazi AJ BSc(Zululand), MBChB, M Fam Med(Natal)
Princ. Family Pract./Snr Lecturer (Bohlabela District
Princ. Family Pract./Snr Lecturer (Mopani District
Princ. Family Pract./Snr Lecturer  Marinowitz GJO, MBChB (UOFS), M Fam Med, MD (MEDUNSA)
Princ. Family Pract./Snr Lecturer  Okonta HI, MD (Timisoara, Romania), MMed (Fam Med) (UP)
Princ. Family Pract./Snr Lecturer (Mopani District
Princ. Family Pract./Snr Lecturer  Omole OB, MBBS, DA (Lagos), M Fam Med (MEDUNSA)
Princ. Family Pract./Snr Lecturer  Clark C, MD (Sofia, Bulgaria), M Fam Med (UOFS)
**Sekhukhune District**  
Princ. Family Pract./Snr Lecturer  Ndwamato M, MBChB (Natal), M Fam Med (MEDUNSA)

**Mpusmalanga**  
Associate Professor / Princ. Family Pract. (Academic Head Deputy Dean: Research, Interim Director: Research & Partnerships - Medunsa Campus  
Princ. Family Pract./Snr Lecturer  Ogunbanjo GA, MBBS (Lagos, Nigeria), MFGP (SA), M Fam Med (MEDUNSA), FACRRM, FACTM, FAFP(SA)

**Mpusmalanga**  
Academic Head Chief Family Pract/Snr Lecturer  Tumbo JM, MBChB (Nairobi), MCFP (SA), M Fam Med (MEDUNSA)

**Part time lecturers / Honorary Lecturers**  
Part-time lecturer  
Akuoko J, MBChB, M Fam Med (MEDUNSA)

Part-time Lecturer  
Ahmad F, MBBS(Pb), MSc Med, M Fam Med (MEDUNSA)

Part-time Lecturer  
Gillman MA, DSc (POTCHESTROOM)

Part-time Lecturer  
Govender I, MBChB, M Med (MEDUNSA)

Honorary Lecturer North West  
Kabongo C, MBChB (Kinshasa)

Part-time Lecturer  
Legodi SM, MBChB, M Fam Med (NATAL)

Part-time lecturer  
Malete NH, RN, RM, RCH (Psych)

Part-time lecturer  
Russell LG, MBChB (Wits)

Part-time lecturer  
Marais LM, MBChB

**General Surgery**

Professor/Chief Specialist  
*Modiba MCM, MBChB (Natal), FCS (SA), MD, FACS

Associate Prof /Princ. Specialist  
Ntlhe LM, MBChB (Natal), FCS (SA)

Snr Lecturer/Principal Specialist  
Ghoor F, MBChB (Natal), MMed (Surg) (MEDUNSA), FCS (SA)

Snr Lecturer/Specialist  
Mageza RB, MBChB (Natal), MMed (Surg) (MEDUNSA)

Snr Lecturer/Specialist  
Mokhtari A, MD (Hamburg), MMed (Surg) (MEDUNSA)

Snr Lecturer/Specialist  
Bondo M, MD (Kinshasa), MMed (Surg) (MEDUNSA)

Lecturer/Specialist  
Mbava D, MBChB, MMed (Surg) (MEDUNSA)

Lecturer/Specialist  
Mokone MD, MBChB, MMed (Surg) (MEDUNSA)

Snr Lecturer/Snr Specialist (Sessional)  
Nxumalo JLM, MD (Toronto), FICS

Lecturer/Specialist (5/8)  
Kamwendo NY, MBChB, MMed (MEDUNSA)

Med Nat Scientist/Chief Prof Nurse  
Ndlovu SR, RN, RM, Dip ICU

Med Tech Off (Chief Prof Nurse)  
Mphahlele MC, RN, RM

**PROVINCIAL UNITS / DIVISIONS**

**Limpopo Province**  
Princ. Specialist/Snr Lecturer  **Sithole JT, MBChB (UKZN), FCS (SA)**

Princ. Specialist/Snr Lecturer  Bhuuyan MMZU, MBBS (Chitagong Medical College, Bangladesh), DTH (Pret), FRCS (Royal College of Surgeons, Glasgow, UK), MMed (General Surgery) (MEDUNSA)

Snr Specialist/Snr Lecturer  Linyama BS, MD, FRCS Ed

**Hand and Microsurgery**

Professor/Chief Specialist  (Acting)  
Eggers IM, PhD (MEDUNSA)

Lecturer (Part time)  
Wiese AMJ, B Med Sci (UP), B Nurs (Stell), D Nurs (SANC)

Chief Medical Technologist  
du Plessis D, NDT (Micro) UP, Clin Tech (Repro Biol) UP, MSC (Psy) MEDUNSA
### Intensive Care

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>*Mpe MJ, FCP (SA), Cert.Pulmonology</td>
<td></td>
</tr>
<tr>
<td>Snr Specialist/Lecturer</td>
<td>Motiango MJ, MMED (Anaest)</td>
<td></td>
</tr>
<tr>
<td>Specialist/Lecturer</td>
<td>Kabongo L, MMED (Anaest)</td>
<td></td>
</tr>
<tr>
<td>Princ. Medical Officer/Lecturer</td>
<td>Muleba NC, MD</td>
<td></td>
</tr>
<tr>
<td>Medical Officer/Lecturer</td>
<td>Ntandane, N, (MBChB)</td>
<td></td>
</tr>
<tr>
<td>Medical Officer/Lecturer</td>
<td>Sesing (MBCHB)</td>
<td></td>
</tr>
</tbody>
</table>

### Internal Medicine

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>*Mzileni MO, RN, RM, MMed (Int) (MEDUNSA) Pulmonology</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Princ. Specialist</td>
<td>Moshesh FM, MMed (Int) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Princ. Specialist</td>
<td>Kalidas KA, MMed (Int) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Princ. Specialist</td>
<td>Kangawaza EM, MMed (Int) Univ of Pretoria</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Snr Specialist</td>
<td>Adeyemo AO, FCP (SA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Snr Specialist</td>
<td>Raphala MA, FCP (SA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Snr Specialist</td>
<td>Khanyile CS, MD (USA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Princ. Specialist</td>
<td>Hassan I, MMed (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Princ. Specialist</td>
<td>Mutidja N, MMed (Int) (MEDUNSA) FCP (SA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Princ. Specialist</td>
<td>Komati SM, MMed (Int) (MEDUNSA) FCP (SA)</td>
<td></td>
</tr>
</tbody>
</table>

### Medical Physics

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Director/ Med Physicist</td>
<td>White AJ, MSc (Brighton)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer/Control Medical Physicist</td>
<td>Segone P, BSc(Hons) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>**Chamberlain AC, PhD (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Lecturer</td>
<td>Mandiwana NN, BSc (Hons) (UP), MSc (Med) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Maboe DPA, BSC (Hons) (Fort Hare), MSc (Med) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Mosia GJ, BSc (Unisa), NHD Nuclear Tech, BSc (Med) (Hons), MSc (Med) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Medical Natural Scientist</td>
<td>Jordaan MM, BSc (Hons) (UOFS), MSc (Med) (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Snr Medical Technical Officer</td>
<td>Moalosi PLJ, BSc (Brown Univ USA)</td>
<td></td>
</tr>
<tr>
<td>Snr Medical Technical Officer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Natural Scientist</td>
<td>Lechanyane M, BSc Hons</td>
<td></td>
</tr>
<tr>
<td>Medical Natural Scientist</td>
<td>Mohlaka H, BSc</td>
<td></td>
</tr>
<tr>
<td>Junior Lecturer/Intern Medical Physicist</td>
<td>Letchokgotha SC, BSc</td>
<td></td>
</tr>
</tbody>
</table>

### Limpopo Province

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager: Medical Physicist</td>
<td>*Maselesele HV, BSc (Med) (Hons) (MEDUNSA), BSc (Physics &amp; Maths) (UNIVEN)</td>
<td></td>
</tr>
</tbody>
</table>
## Neurology

### Professor/Chief Specialist
- Magazi DS, MBBch, MMed, FCP (Neuro) SA

### Neurosurgery

### Professor/Chief Specialist
- Lekgwara PL, MBChB, FCS (SA)

### Nuclear Medicine

### Professor/Chief Specialist
- Ramafi OE, MBChB, MMed (Nucl Med)

### Obstetrics & Gynaecology

### Polokwane Campus
- Nesengani DS, MBChB, MMed (O&G) (MEDUNSA)

### Mpumalanga Campus
- Shah GB, MDBS, FCOG (SA)

### North West Campus
- Medapati P, MBBS ( ) MMed (MEDUNSA)

### Occupational Medicine

### Professor/Princ. Specialist
- Kocks DJ, MBChB, DPH, DOH (UP), MMed (Com Health), FFCH(CM)SA, MD(MEDUNSA)

### Occupational Health Controller
- Rammabi MR (Mrs), Occ Health Pract, Post Basic Dipl in Occ Health, Dip in General Nursing Science
### Ophthalmology

**Professor/Chief Specialist**

Assoc Prof/Princ. Specialist  
Snr Lecturer/Snr Specialist  
Snr Lecturer/Snr Specialist  
Lecturer/Specialist

****Plenaar A, MBChB, MMed (Ophth) (MEDUNSA)
Sebiloane RKS, MBChB, MMed (Ophth) (MEDUNSA)
Olivier JF, MRC Ophth (UK), MMed (Ophth) (MEDUNSA)
Matlala JB, MBChB, MMed(Ophth) (MEDUNSA), FC (Ophth) (SA)

### PROVINCIAL UNITS / DIVISIONS

**Limpopo Province**

Chief Specialist/Snr Lecturer

Snr Specialist/Snr Lecturer

Specialist

*Stegmann GF, MMed (Ophth) (Stell)
Thompson SM, MBChB (Pret), Dip Ophth (SA), FC Ophth (SA)
Bangure R, MBChB (Zimbabwe), FC (Ophth) (SA)

### Orthopaedics

**Professor/Chief Specialist**

Associate Prof /Princ Specialist  
Lecturer/Snr Specialist  
Snr Lecturer/Principal Specialist  
Lecturer/Specialist (Sessions)  
Lecturer/Specialist

**Golele R, MFGP (SA), FC (Orth) (SA) PR, MMed (Orth) (MEDUNSA)**
Mariba MT, MMed (Orth) (MEDUNSA), FCS (Orth) (SA)
Kumbirai PT, MMed (Orth) (MEDUNSA)
D’Alton EJ, MMed (Orth) (MEDUNSA)
Golele SS, MMed (Orth) (MEDUNSA), FC (Orth) (SA)
Matshidza S, MMed (Orth) (MEDUNSA), FC (Orth) (SA)

### PROVINCIAL UNITS / DIVISIONS

**Limpopo Province**

Princ. Specialist/Snr Lecturer

Williams PWS, MBChB (Pret), MMed (Ort) (UOFS)

### Otorhinolaryngology

**Professor/Chief Specialist**

Lecturer/Specialist  
Snr Medical Natural Scientist  
Snr Lecturer/Specialist (sessions)  
Lecturer/Specialist (sessions)  
Lecturer/Specialist

**Krupski MH, Dip Med (Poland), MMed (L et O) (MEDUNSA), FCORL(SA)**
Voogt GR, BA (Log) (UP)
Legodi SK, MBChB, MMed (L et O) (MEDUNSA)
Vorster WF, BSc, MBChB, MMed Otol.
Joseph CA, MBBCh (Wits), FRCS (Eng), FCS (SA), MMed (Wits)
Basson H,MBChB, MMed(L et O)Medunsfa,FCORL(SA)

### PROVINCIAL UNITS / DIVISIONS

**Limpopo Province**

Princ. Specialist/Snr Lecturer

*Omoding S, MBChB (Makerere), MMed (ENT) (Nairobi), MMed (ENT) (UCT)*

### Paediatrics & Child Health

**Professor/Chief Specialist**

Snr Lecturer/Princ. Specialist

*de Villiers FPR, BA (Unisa), MBChB (Stell), MMed (Paed), PhD (Witw), FCFP (SA), DTM+H (Wits), FACP, FC Paed (SA), DCH (SA), Dip Datametrics, UTLM (Unisa)*
Mawela MPB, MMed (Paed) (MEDUNSA)
Snr Lecturer/Princ. Specialist  
Maake H, MBChB (Natal), MMed (Paed) (MEDUNSA)

Snr Lecturer/Snr Specialist  
Nkohane A, MMed (Paed) (MEDUNSA)

Snr Lecturer/Snr Specialist  
Lombard CC, MBChB (UP), MMed (MEDUNSA)

Snr Lecturer/Snr Specialist  
Mda S, MBChB (Natal), MMed (Paed) (MEDUNSA)

Lecturer/Specialist  
Hoppmann U, MBChB (UP), MMed (Paed) (MEDUNSA)

Medical Natural Scientist  
Moshe CM, MBChB (MEDUNSA), FC Paed (SA)

Lecturer/Specialist  
Naidoo V, MBChB (Natal), FC Paed (SA)

PROVINCIAL UNITS / DIVISIONS

Limpopo Province

Chief Specialist/Snr Lecturer  
*Shipalana N, MBChB (Natal), FC Paed, MMed Paed (Wits)

Princ. Specialist/Snr Lecturer  
Robertson BA, MBChB (Wits), DTM&H, DPH, FC Paed

Princ. Specialist/Snr Lecturer  
Sutton CJ, MBChB, DTM&H (Wits), DCH (SA)

Princ. Specialist/Snr Lecturer  
Hamese MHK, MBChB (MEDUNSA), FC Paed (CMSA, Dip HIV Management (SA)

Princ. Specialist/Snr Lecturer  
Maseko NH, MD (Ionnina), Dipl in Child Health (SA), FC Paed (SA)

Princ. Specialist/Snr Lecturer  
Rajan MV, MBBS (Kerala), DCH (Ire), Dip APA (UNISA, FC Paed (SA)

Paediatric Surgery

Snr Lecturer/Princ. Specialist  
**Marcisz LT, MD (Poland), FCS (SA), MMed (Surg) (MEDUNSA), Paediatric Surgeon (Poland, SA)

Pharmacology & Therapeutics

Professor/Chief Clinical Pharmacologist  
*Du Plooy WJ, PhD (MEDUNSA), FCP (ACCP),

Associate Professor  
Van Wyk JPH, BSc(UOFS), PhD (MEDUNSA)

Associate Professor  
Kahler-Venter CP, BSc (PU for CHE), PhD (MEDUNSA)

Associate Professor /Principal Clinical Pharmacologist  
Osuch-Herman E, MD (Warsaw), PhD

Pharmacology(UNIV of LIMPOPO) MSc(Med) Pharm Principal Medical (MEDUNSA), Dip Fam Med (UP)

Snr Lecturer/Principal Medical Officer

Snr Lecturer  
Fata MM, Intermediate Med Lab Tech

Principal Med Technologist  
Tsipa P, Diploma in Chemical Pathology

Snr Med Technical Officer  
Komape NPM, BSc (UNIV OF NATAL) BSc (Hons) (Bio Chemistry) (UNIV OF THE NORTH), MSc (Bio Chemistry) (UNIV OF LIMPOPO), BScMed(Hons) Pharmacology (UNIV OF LIMPOPO)

Snr Med Technical Officer  
Mamabolo T, National Dip (Analytical Chemistry) Tswane Univ of Technology, BTech(Chemistry) Tswane Univ of Technology.

Medical Technical Officer  
Mathibe KL, RN, RM, Ned. (O.T) (UNISA)

Medical Technical Officer (Chief Prof Nurse)  
Tekele CSS, RN, RM, BCur (UNISA)
### Physiology

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor / Chief Specialist</td>
<td>Hay L, PhD</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Emeritus Professor</td>
<td>Smith KA, PhD</td>
<td>Salford</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>Schutte PJ, PhD</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>Böhm L, PhD</td>
<td>UP</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>Allers NA, PhD</td>
<td>Potch</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>Mogale A, MSc, PhD</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Lecturer</td>
<td>du Plooy SH, MSc (Med)</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Lebelo L, MSc</td>
<td>Emfobia State Univ, HED</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Scott L, MSc</td>
<td>UWC</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Thaver M, MSc</td>
<td>UP</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Makina J, MSc</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Medical Natural Scientist</td>
<td>Janse van Rensburg RC</td>
<td>MEDUNSA</td>
</tr>
<tr>
<td>Medical Technologist</td>
<td>Nkadimeng S, BSc Med</td>
<td>MEDUNSA, MSc (Med)</td>
</tr>
<tr>
<td>Princ. Med Technical Officer</td>
<td>Correira D, Nat Dip</td>
<td>(Vet Tech), BSc Med (Hons)</td>
</tr>
<tr>
<td>Snr. Veterinary Technologist</td>
<td>de Freitas A</td>
<td>Lab Animal Technology (Dip) TEC RSA, Domestic Science (Dip) for CHE</td>
</tr>
</tbody>
</table>

### Plastic and Reconstructive Surgery

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Specialist</td>
<td>Hoffmann D, MBChB, FCS</td>
<td>MMed (Plast Surg) (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Snr Specialist</td>
<td>Van Wyk JL, MBChB, MMed</td>
<td>Plast Surg (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Rawlins S J de V, MBChB, MMed</td>
<td>Plast Surg (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Specialist (Sessions)</td>
<td>Van Heerden SP, MBChB, MMed</td>
<td>Plast Surg (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Specialist (Sessions)</td>
<td>Annandale ZF, MBChB, MMed</td>
<td>Plast Surg (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Specialist (Sessions)</td>
<td>Meyer A, MBChB, MMed</td>
<td>Plast Surg</td>
</tr>
</tbody>
</table>

### PROVINCIAL UNITS / DIVISIONS

#### Limpopo Province

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Princ. Specialist/Snr Lecturer</td>
<td>Mzezewa SZ</td>
<td>MB (Liberia), MMed (Surg) (Zimbabwe), Cert in Plastic &amp; Recon Surg (Lund), Licentiate of Medical Science (Lund), PhD (Uppsala)</td>
</tr>
</tbody>
</table>

### Psychiatry

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>Rataemane ST</td>
<td>MBChB (Natal), FF Psyc (SA), Child &amp; Adolescent Psychiatry (UK)</td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Katunzi TE</td>
<td>MMed (Psych) (MEDUNSA)</td>
</tr>
<tr>
<td>Lecturer/Specialist (sessions)</td>
<td>Bothma JJ</td>
<td>FF Psych (SA)</td>
</tr>
</tbody>
</table>

### PROVINCIAL UNITS / DIVISIONS

#### Limpopo Province

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Specialist/Snr Lecturer</td>
<td>Weiss EA</td>
<td>MBChB, MMed (Psych), FF Psych (SA)</td>
</tr>
<tr>
<td>Princ. Specialist/Snr Lecturer</td>
<td>Grobler S</td>
<td>MBChB (Pret), Dipl Occupational Health, FC Psych (SA), MMed Psych</td>
</tr>
<tr>
<td>Princ. Specialist/Snr Lecturer</td>
<td>Mokoena-Molepo PJ</td>
<td>MBChB (Natal), FC (Psych) (SA)</td>
</tr>
</tbody>
</table>
## Radiography

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head/Snr Lecturer</td>
<td>*Moalusi TSM, Nat Dip Rad (Diagn), HED (Tech) (Diag Rad) (SA), B Ed (Wits)</td>
<td></td>
</tr>
<tr>
<td>Associate Professor</td>
<td>Ebrahim N, Nat Dip Rad (Diag), FETC (Lond), MSc (Rad Diag) (UK), PG Dip Int Res Ethics (UCT)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Mundhly SI, Dip Rad (Diagn), B Admin (Unisa), DTE, BEd (UP), Cert. Economics &amp; Public Finance (Unisa), MPH (MEDUNSA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Mochifefe MA, Nat Dip Rad (PE Tec), DTE (UP), BEd (UP); MEd.(UP), Dip in Industrial Relations (Damelin)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Mokgokong PTM, Dip Diag Rad (MEDUNSA), BA (Unisa), DTE (Unisa); MEd (UNISA)</td>
<td></td>
</tr>
<tr>
<td>Lecturer</td>
<td>Thulo AM, B Rad Diag (MEDUNSA), DTE (UP), BEd (UP); MEd (UP)</td>
<td></td>
</tr>
</tbody>
</table>

## Urology

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor/Chief Specialist</td>
<td>*Segone AM, BSc (Rhodes), MBChB (Sheffield), FRCS (Ed), FCS (Urol) SA</td>
<td></td>
</tr>
<tr>
<td>Control Medical Technologist</td>
<td>Schulenburg GW, Med Technologist (Cytology), Clin Tech (Reprod Biol)</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Mutambirwa SBA, MBChB (Zim), MMed (Urol) (MEDUNSA), FCS (Urol) SA</td>
<td></td>
</tr>
<tr>
<td>Lecturer/Specialist</td>
<td>Maimela MKG, MBChB, FCS (Urol) SA</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**  * Indicates HOD  ** Indicates Acting HOD
A. GENERAL RULES

RELATIONS TO OTHER RULES
FHS1

Faculty Rules should be read in conjunction with the General Rules of the University and except where otherwise laid down, expressly or by necessary implication, should hold for the individual Schools and academic Departments.

The Faculty of Health Sciences is unique in that in addition to the rules of the Faculty, it is also subject to the dictates of the discipline specific professional bodies.

ADMISSION
FHS2

2.1 A candidate for a degree, diploma and certificate in the Faculty must comply with the conditions and meet the selection criteria as determined by the concerned Schools. The University Council has the right to refuse admission to any student should it be considered to be in the interest of the University to do so. For practical reasons only a limited number of applicants can be admitted to the degree programme.

2.2 As per the General Rules of the University.

REGISTRATION
FHS3

3.1 On registration (and after having completed and signed the official registration form), the student agrees to abide by all Rules and the Statute of the University. There may be further registration with the professional bodies.

3.2 As per the General Rules of the University.

3.3 A student is responsible for the composition of his/her programme in so far as its compliance with the General Rules and the Rules of the various Schools are concerned. Official class timetables will be provided upon admission and the onus is on the prospective student to ensure that proposed modules/courses do not clash and if it is discovered at any time, the student will promptly be deregistered from one of the modules/courses, as determined in consultation with the Dean of the Faculty.

3.4 A student shall not register for a full-time qualification on a part-time basis, except where School Rules permits.

3.5 – 3.8 As per the General Rules of the University.

ENROLMENT
FHS4

The General Rules of the University shall apply as stipulated.
TIMETABLE
FHS5

The General Rules of the University shall apply as stipulated.

PAYMENT OF FEES
FHS6

The General Rules of the University shall apply as stipulated.

REGISTERING MODULES/COURSES FOR NON-DEGREE PURPOSES
FHS7
7.1 - 7.2 As per University General Rules

7.3 A module/course taken outside a prescribed programme may later be recognised for a programme, pending application to the relevant Directors of Schools and payment of appropriate fees.

7.4 - 7.5 As per University General Rules

RECOGNITION AND EXEMPTION OF MODULES/COURSES
FHS8

The General Rules of the University shall apply as stipulated.

RETENTION/LOSS OF CREDITS
FHS9

The General Rules of the University shall apply as stipulated.

DURATION OF STUDY
FHS10

The General Rules of the University shall apply as stipulated.

CHANGE OF PROGRAMMES AND SIMULTANEOUS REGISTRATION FOR TWO OR MORE PROGRAMMES
FHS11

The General Rules of the University shall apply as stipulated.

ASSESSMENT
FHS12

12.1 In the Faculty of Health Sciences candidates should be assessed for both formative and summative assessments except when the student applied for an exemption from summative assessment and it is granted by the Head of Department.

12.2 - 12.3 As per University General Rules

12.4 No further assessment shall be granted after the student has had the benefit of a full assessment cycle. A full assessment cycle consists of standard, re-examination/supplementary or deferred assessment, where applicable.

12.5 - 12.6 As per University General Rules

SUMMATIVE ASSESSMENT
FHS13

13.1 - 13.4 As per University General Rules
When calculating the final mark following a summative assessment, the differential contribution of the formative and the summative assessment marks are 60% and 40% respectively.

As per General Rules of the University.

Accept in the case of Clinical Programmes.

Re-examination and Supplementary Assessment (for Undergraduate Studies Only)

In Clinical Programmes the format of re-assessment may differ from that of the formative assessment.

In other Schools the format of a re-examination may be different from that of the summative assessment.

As per University General Rules

Special Summative Assessment

The General Rules of the University shall apply as stipulated.

Deviation from Standard Assessment Procedure

The General Rules of the University shall apply as stipulated.

Assessment Fraud

The General Rules of the University shall apply as stipulated.

Assessors

The General Rules of the University shall apply as stipulated.

Minimum Pass and Distinction in a Module/Course

The General Rules of the University shall apply as stipulated.

Failure of a Module/Course

A student is regarded as having failed a module/course if,

- He/she does not fulfill all the requirements in the module/course concerned.
- He/she does not meet the sub-minimum requirements in certain parts/divisions/papers of the assessment.
- His/her final mark is less than 50%.
- He/she failed to sit for exam unless rule 12.2 applied
Subject to the provisions of Rules FHS25 and FHS26, a student shall not be permitted more than two attempts at passing a module/course even when changing his/her degree programme.

**VIEWING AND REMARKING OF SCRIPTS**

**FHS21**

21.1 Viewing of scripts:

21.1.1 With the permission of the Director of School, a student may view his/her final assessment script together with the marking memorandum, under the supervision of a responsible person appointed by the Director. Viewing of scripts is allowed within two weeks of assessment results.

21.2 Remarking of assessment scripts:

21.2.1 An application from a student for the remarking of an assessment script should be submitted, only after viewing the script by completing the prescribed form and submitted to the Dean of the Faculty within two weeks of the assessment results having been issued to students. Requests via the post service should be by registered mail.

21.2.2 The Dean of the Faculty shall make the necessary arrangements with the original external assessor or an alternate assessor for remarking the script.

21.2.3 The prescribed fee per module/course is to be paid in full by the applicant prior to remarking.

21.2.4 Assessment scripts shall be kept for five years only.

**STUDENT PROGRESS**

**FHS22**

The General Rules of the University shall apply as stipulated.

**AWARDING OF A QUALIFICATION**

**FHS23**

The General Rules of the University shall apply as stipulated.

**B. RULES FOR UNDERGRADUATE STUDY**

**ADMISSION**

**FHS24**

The General Rules of the University shall apply as stipulated.

**CREDIT FOR MODULES/COURSES PASSED/ADMISSION TO A SUBSEQUENT MODULE/COURSE**

**FHS25**

Limitation on enrolment for modules/courses at subsequent levels, unless otherwise determined by the various Faculties:

25.1 Year level

For certain Schools in the Faculty a student cannot proceed to the next level unless the applicable prerequisites have been met.
25.1.1 Second year level
Subject to Rules FHS8 and FHS20.2, a student shall not be allowed to take any module/course at second year level, unless he/she has obtained 50% of the total credits prescribed at first year level, unless otherwise determined by the School concerned.

25.1.2 Third year level
Subject to Rules FHS8 and FHS20.2, a student shall not be allowed to take any module/course at third year level, unless he/she has obtained 100% of the total credits prescribed at first-year level, and 50% of the total credits prescribed at second year level, unless otherwise determined by the School concerned.

25.1.3 Fourth year level
Subject to Rules FHS8 and FHS20.2, a student shall not be allowed to take any module/course at fourth-year level unless he/she has obtained 100% of the total credits prescribed at second-year level and 50% of the total credits prescribed at third-year level, unless otherwise determined by the School concerned.

25.1.4 Fifth Year level
Subject to Rules FHS8 and FHS20.2, a student shall not be allowed to take any module/course at fifth year level, unless he/she has obtained 100% of the total credits prescribed at third year level, and 50% of the total credits prescribed at the fourth year level, unless otherwise determined by the School concerned.

25.1.5 Sixth Year level
Subject to Rules FHS8 and FHS20.2, a student shall not be allowed to take any module/course at sixth-year level, unless he/she has obtained 100% of the total credits prescribed at fourth-year level, and 50% of the total credits prescribed at fifth-year level, unless otherwise determined by the School concerned.

25.2 Year status

25.2.1 Second-year status
Subject to any contrary School Rule in respect of a particular qualification, a student must have obtained credit for at least 75% of the total credits at first year level before being admitted to second year status.

25.2.2 Third-year status
Subject to any contrary School Rule in respect of a particular qualification, a student must have obtained credit for at least 75% of the total credits at second-year level before being admitted to third-year status.

25.2.3 Fourth-year status
Subject to any contrary School Rule in respect of a particular qualification, a student must have obtained credit for at least 75% of the total credits at third year level before being admitted to fourth-year status.

25.2.4 Fifth-Year Status
Subject to any contrary School Rule in respect of a particular qualification, a student must have obtained credit for at least 75% of the total credits at fourth-year level before being admitted to fifth-year status.

25.2.5 Sixth-Year Status
Subject to any contrary School Rule in respect of a particular qualification, a student must have obtained credit for at least 75% of the total credits at fifth-year level before being admitted to sixth year status.
RENEWAL OF REGISTRATION
FHS26

26.1 A full-time student at the first year level who, after having been registered for a full academic year, has not been able to accumulate any credits will not be able to renew his/her registration in the same programme.

26.2 A full-time student who, after having been registered for two years at a specific year level for a qualification at this or any other residential university and has not yet obtained subsequent year status according to the conditions explained under Rule FHS25.2, will only be enrolled as a student subject to the stipulations under Rule FHS26.4.

26.3 A full-time student who, after having been enrolled for a period of two years exceeding the minimum period of attendance of a qualification as stipulated under Rule FHS10, and is still not in a position to complete his/her qualification in one more additional year, will not be allowed to register again at this University, subject to the stipulations under Rule FHS26.4. For programmes exceeding three years, rule 26.2 applies, unless the Executive Dean determine otherwise.

26.4 A student who was doing first year and second year, and was excluded under Rules FHS26.2 and FHS26.3 may apply for readmission after the outstanding credits were obtained from another accredited institution of higher learning and subject to the stipulations under Rule FHS8. In the case of students affected by Rule FHS26.3, application for readmission will be for the purposes of degree conferment.

26.5 In case of students expelled on academic grounds, the following

26.5.1 For the third year students and beyond, different School rules shall apply. the Faculty of Health Sciences Rule FHS6.4 apply to first
26.5.2 Excluded students may apply for review to the Executive Dean, no review shall be done for students with outstanding fees.

26.6 A student who, for some one or other reason, has been expelled from another institution shall not be registered at this University.

26.7 The period of study completed at a Distance Education Institutions will be equated with a period of full-time study for purposes of applying Rules FHS26.2 to FHS26.4.

STATUTORY REGISTRATION
FHS27

The General Rules of the University shall apply as stipulated.

C. RULES FOR POSTGRADUATE STUDY

ADMISSION TO STUDIES
FHS28

The General Rules of the University shall apply as stipulated.

EQUIVALENT STATUS
FHS29

The General Rules of the University shall apply as stipulated.
D. RULES FOR HONOURS DEGREE STUDY

ADMISSION TO STUDY FOR AN HONOURS DEGREE
FHS30

The General Rules of the University shall apply as stipulated.

DURATION OF STUDY
FHS31

The General Rules of the University shall apply as stipulated.

REGISTRATION
FHS32

The General Rules of the University shall apply as stipulated.

COMPOSITION OF A PROGRAMME
FHS33

The programme is composed of a number of modules/courses as prescribed in the relevant School Rules. For purposes of this Rule, School Rules may prescribe papers, projects, extended essays, practicals, or combinations thereof, as modules/courses for the honours bachelor’s degree.

ASSESSMENT
FHS34

The General Rules of the University shall apply as stipulated.

CONFERMENT OF THE DEGREE
FHS35

The General Rules of the University shall apply as stipulated.

E. RULES FOR MASTERS DEGREE STUDY

ADMISSION TO STUDY FOR MASTERS DEGREE
FHS36

The General Rules of the University shall apply as stipulated.

REGISTRATION AND RENEWAL OF REGISTRATION
FHS37

The General Rules of the University shall apply as stipulated.

COMPOSITION OF A PROGRAMME
FHS38

38.1 All masters degrees require a dissertation or equivalent requirement as determined by special School Rules.

38.2 A research masters programme is composed of a research project where the candidate should exhibit competency in planning, execution and reporting of a research topic.

38.3 A coursework masters programme is determined by School Rules and may include assessment papers, projects, a mini-dissertation, research papers, practicals, or combinations thereof, as modules/courses for the degree.
DISSERTATION/MINI-DISSERATATION
FHS39

39.1 The title and proposal for a dissertation/mini-dissertation is approved for a period of three years, in case of the need for extension, the student shall apply to Senate via the relevant Faculty for an extension of time.

39.2 The dissertation/mini-dissertation must render proof that the candidate is able to conduct and execute independent scientific research.

39.3 Material from the student’s own published work may be incorporated in the dissertation/mini-dissertation, but a collection of published works shall not be accepted as a dissertation unless otherwise specified by the Schools.

39.4 No publication may, without the prior permission of Senate, contain a statement to the effect that the published material was or is to be submitted in part or in fulfilment for the degree.

39.5 A dissertation/mini-dissertation previously submitted as a whole or in substance for a degree at another university will not be accepted at this University.

CLOSING DATES FOR SUBMISSION
FHS40

The General Rules of the University shall apply as stipulated.

ASSESSMENT OF THE DISSERTATION/MINI-DISSERATATION
FHS41

In addition to the General Rules the following specific shall apply

41.1 On the recommendation of the supervisor, and the Faculty concerned, the Executive Committee of Senate appoints an assessment panel consisting of the supervisor, the co-supervisor(s) (if any) as internal assessor(s), and at least two external assessors unless otherwise stated by the School. (A co-supervisor may not act as an external assessor.)

CONFERMENT OF THE MASTERS DEGREE
FHS42

The General Rules of the University shall apply as stipulated.

PUBLICATION OF A DISSERTATION/MINI-DISSERATATION
FHS43

The General Rules of the University shall apply as stipulated.

MASTERS DEGREE STUDY BY RESEARCH

DURATION OF STUDY
FHS44

The General Rules of the University shall apply as stipulated.

REQUIREMENTS FOR AWARDING A MASTERS DEGREE
FHS45

The General Rules of the University shall apply as stipulated.
SUBMISSION OF DISSERTATION
FHS46

The General Rules of the University shall apply as stipulated.

AWARDING OF MARKS
FHS47

47.1 The final mark achieved for the dissertation, is the average of the marks allocated by all assessors (internal and external).

47.2 If an assessor indicates in his/her examination report that he/she has to view the dissertation again after the corrections are effected, it may be done so once only.

47.3 Where an external assessor awards a mark below 50%, Senate may seek a second external opinion once only.

47.4 In order to pass the degree, a minimum of 50% should be allocated by all assessors (internal and external).

47.5 Cum laude is an average of 75%, unless otherwise stipulated by Schools.

CONVERSION OF A MASTERS DEGREE STUDY INTO A DOCTORAL DEGREE
FHS48

The General Rules of the University shall apply as stipulated.

MASTERS DEGREE STUDY BY COURSEWORK

DURATION OF STUDY
FHS49

The minimum duration of study is two years, and the maximum duration is seven years.

REQUIREMENTS FOR AWARDING A COURSEWORK MASTERS DEGREE
FHS50

In addition to the General Rules the following specific shall apply

50.1 A coursework masters degree is awarded on the grounds of

50.1.1 Completion of the required modules/courses.

50.1.2 Submission of a mini-dissertation, or research requirement as specified by the School.

SUBMISSION OF A MINI-DISSertation
FHS51

The General Rules of the University shall apply as stipulated.

AWARDING OF MARKS
FHS52

52.1 In order to pass the degree, a student shall obtain a pass mark of at least 50% in every module/course required for the degree.

52.2 The final mark should be proportional between the mark obtained for the mini-dissertation and all the required coursework components of the degree.
52.3 The final mark achieved for the mini-dissertation, is the average of the marks allocated by all assessors (internal and external).

52.4 In order to pass the degree, a minimum of 50% should be allocated for the mini-dissertation by all assessors (internal and external).

52.5 Where an external assessor awards a mark below 50%, Senate may seek a second external opinion once only.

52.6 If an assessor indicates in his/her examination report that he/she has to view the mini-dissertation again after the corrections are effected, it may be done so once only.

52.7 Awarding of Cum laude:

52.7.1 if there is distinction in the mini-dissertation, the candidate obtains the degree, “with a distinction in the mini-dissertation”.

52.7.2 If there is distinction in the course work, the candidate obtains the degree, “with a distinction in the course work”.

52.7.3 A degree is awarded with Cum Laude, if a distinction is obtained in both the coursework and mini-dissertation.

F. RULES FOR DOCTORAL DEGREE STUDY

ADMISSION FOR DOCTORAL STUDY
FHS53

The General Rules of the University shall apply as stipulated.

DURATION OF STUDY
FHS54

The General Rules of the University shall apply as stipulated.

REGISTRATION AND RENEWAL OF REGISTRATION
FHS55

55.1 Candidates for doctoral study are not subject to the registration date for bachelor’s degrees only for the first registration.

55.2 A candidate who has been registered for a doctoral degree must renew his/her registration each year before the closing date for academic registration and pay all prescribed fees until the candidate has complied with all the requirements for the degree. On renewal of registration, the student is required to pay the registration fee only.

55.3 If a student’s progress is not satisfactory as per School Rules, the student’s registration for doctoral study may be cancelled.

REQUIREMENTS FOR AWARDING A DOCTORAL DEGREE
FHS56

56.1 A doctoral degree is awarded on the grounds of a completed thesis and other specified requirements of the School.

56.2 Subject to Faculty Rules, the assessment panel may subject a candidate to a defence of the thesis.
THESIS
FHS57

The General Rules of the University shall apply as stipulated.

SUBMISSION OF THE THESIS
FHS58

The General Rules of the University shall apply as stipulated

ASSESSMENT OF THE THESIS
FHS59

The General Rules of the University shall apply as stipulated

CONFERMENT OF THE DEGREE
FHS60

The General Rules of the University shall apply as stipulated

PUBLICATION OF A THESIS
FHS61

The General Rules of the University shall apply as stipulated

AWARDING OF DEGREE honoris causa
FHS62

The General Rules of the University shall apply as stipulated

GUIDELINES FOR OUTSTANDING ACHIEVEMENT AND ENDEAVOURS
FHS63

The General Rules of the University shall apply as stipulated

PROCEDURE
FHS64

The General Rules of the University shall apply as stipulated

ADMISSION FOR DSc DEGREE PROGRAMME
FHS65

65.1 A person who wishes to be admitted as a candidate for this degree shall lodge an application with the Registrar submitting such evidence of his academic and general qualifications and such information as the rules of Senate may, from time to time, require. Registration will only be permitted once a person has been admitted to this degree.

65.2 A person who is not a member of the Convocation and who wishes to proceed to the degree shall not be admitted as a candidate unless Senate is satisfied, on the advice of the board of the Faculty, that there are sound reasons for such Admission.
65.3 Any one of the following may be admitted by Senate as a candidate:

(a) A person in possession of a Doctor of Philosophy or an MD degree of the University of at least four years standing;

(b) A graduate of any other University admitted under the Higher Education Act, the status Doctor of Philosophy or MD and who has held the qualification, by virtue of which such Admission has been granted, for a period of at least four years.

DURATION OF STUDY FOR DSc
FHS65.4

At least 12 months before the degree may be conferred
A. GENERAL RULES

RELATIONS TO OTHER RULES

SM1
General School Rules should be read in conjunction with the Faculty General Rules and except where otherwise laid down, expressly or by necessary implication, should hold for the individual academic Departments.

ADMISSION

SM2
2.1 A candidate for a degree, diploma and certificate in the Faculty must comply with the conditions and meet the selection criteria as determined by the concerned Departments or courses. The Council has the right to refuse admission to any student should it be considered to be in the interest of the University to do so. For practical reasons only a limited number of applicants can be admitted to the degree programme. General rule apply

2.2 As per Faculty Rules.

REGISTRATION

SM3
3.1 As per Faculty Rules.

3.2 The Curricula of the programmes are fixed.

3.3 A student shall not register for a full-time qualification on a part-time basis.

3.4 – 3.9 As per Faculty Rules.

ENROLMENT

SM4
The Faculty Rules shall apply as stipulated.

TIMETABLE

SM5
The General Rules of the University and Faculty Rules shall apply as stipulated.

PAYMENT OF FEES

SM6
The General Rules of the University and Faculty Rules shall apply as stipulated.

REGISTERING MODULES/COURSES FOR NON-DEGREE PURPOSES

SM7
As per Faculty Rules.
RECOGNITION AND EXEMPTION OF MODULES/COURSES

SM8
The General Rules of the University and Faculty Rules shall apply as stipulated, except where specific School Rules exist.

RETENTION/LOSS OF CREDITS

SM9
The General Rules of the University and Faculty Rules shall apply as stipulated, except where specific School Rules exist.

DURATION OF STUDY

SM10
The General Rules of the University and Faculty Rules shall apply as stipulated.

CHANGE OF PROGRAMMES AND SIMULTANEOUS REGISTRATION FOR TWO OR MORE PROGRAMMES

SM11
The General Rules of the University and Faculty Rules shall apply as stipulated, except where specific School Rules exist.

ASSESSMENT

SM12
12.2 In the School of Medicine a candidate should sit for both continuous/formative and summative assessments except when the student applied for an exemption from summative assessments and permission is granted by the Head of Department.

12.2 - 12.6 As per Faculty Rules

SUMMATIVE ASSESSMENT

SM13
13.1 - 13.6 As per University and Faculty General Rules.

RE-ASSESSMENT AND SUPPLEMENTARY ASSESSMENT (FOR UNDERGRADUATE STUDIES ONLY)

SM14
14.1 - 14.7 As per Faculty Rules.

SPECIAL SUMMATIVE ASSESSMENT

SM15
The General Rules of the University and Faculty Rules shall apply as stipulated.

DEVIATION FROM STANDARD ASSESSMENT PROCEDURE

SM16
The General Rules of the University and Faculty Rules shall apply as stipulated.

ASSESSMENT FRAUD

SM17
The General Rules of the University and Faculty Rules shall apply as stipulated.

ASSESSORS

SM18
The Faculty Rules shall apply as stipulated.
MINIMUM PASS AND DISTINCTION IN A MODULE/COURSE

SM19
The General Rules of the University and Faculty Rules shall apply as stipulated, except where specific School Rules exist.

FAILURE OF A MODULE/COURSE

SM20
The Faculty Rules shall apply as stipulated.

VIEWING AND REMARKING OF SCRIPTS

SM21
The Faculty Rules shall apply as stipulated.

STUDENT PROGRESS

SM22
22.1 The performance of a student is assessed throughout the year (continuous assessment) by way of tests (written or oral), practical work, assignments, group discussions, seminars and/or other suitable means of assessment. Students should be regularly provided with feedback on their progress.

22.2 The results of each formative assessment and/or continuous assessments are expressed quantitatively and are the determinants of the student’s formative mark that is his/her admission to summative assessment (refer to Rules G12 and G13).

AWARDING OF A QUALIFICATION

SM23
The General Rules of the University and Faculty Rules shall apply as stipulated.

B. RULES FOR UNDERGRADUATE STUDY

ADMISSION

SM24
The General Rules of the University and Faculty Rules shall apply as stipulated.

CREDIT FOR MODULES/COURSES PASSED / ADMISSION TO A SUBSEQUENT MODULE/COURSE

SM25
Limitation on enrolment for modules/courses at subsequent levels, unless otherwise determined by the various Departments:

25.2 Year level
In this school a student may not proceed to the next level unless the applicable pre-requisites have been met.

25.2.1 - 25.1.5 As per Faculty Rules

25.2 Year status

25.2.1 - 25.2.5 The Faculty Rules shall apply as stipulated, except where specific School Rules exist.

RENEWAL OF REGISTRATION

SM26
26.1 – 26.6 As per Faculty Rules.
STATUTORY REGISTRATION

SM27
The General Rules of the University and Faculty Rules shall apply as stipulated.

C. RULES FOR POSTGRADUATE STUDY

ADMISSION TO STUDIES

SM28
The General Rules of the University and Faculty Rules shall apply as stipulated.

EQUIVALENT STATUS

SM29
The General Rules of the University and Faculty Rules shall apply as stipulated.

D. RULES FOR HONOURS DEGREE STUDY

ADMISSION TO STUDY FOR AN HONOURS DEGREE

SM30
The General Rules of the University and Faculty Rules shall apply as stipulated.

DURATION OF STUDY

SM31
The General Rules of the University and Faculty Rules shall apply as stipulated.

REGISTRATION

SM32
The General Rules of the University and Faculty Rules shall apply as stipulated.

COMPOSITION OF A PROGRAMME

SM33
The programme is composed of a number of modules/courses as prescribed in the relevant Department Rules. For purposes of this Rule, Department Rules may prescribe papers, projects, extended essays, practicals, or combinations thereof, as modules/courses for the honours bachelor’s degree.

ASSESSMENT

SM34
The General Rules of the University and Faculty Rules shall apply as stipulated.

CONFERNMENT OF THE DEGREE

SM35
The General Rules of the University and Faculty Rules shall apply as stipulated.
E. RULES FOR MASTERS DEGREE STUDY

ADMISSION TO STUDY FOR MASTERS DEGREE
SM36
The General Rules of the University shall apply unless as stipulated by the School.

REGISTRATION AND RENEWAL OF REGISTRATION
SM37
The General Rules of the University and Faculty Rules shall apply as stipulated.

COMPOSITION OF A PROGRAMME
SM38
The Faculty Rules shall apply as stipulated.

DISSERTATION/MINI-DISSERTATION
SM39
The Faculty Rules shall apply as stipulated.

CLOSING DATES FOR SUBMISSION
SM40
The General Rules of the University and Faculty Rules shall apply as stipulated.

ASSESSMENT OF THE DISSERTATION/MINI-DISSERTATION
SM41
The General Rules of the University and the faculty rules shall apply unless specified otherwise by the relevant school and department.

CONFERMENT OF THE MASTERS DEGREE
SM42
The General Rules of the University and Faculty Rules shall apply as stipulated.

PUBLICATION OF A DISSERTATION/MINI-DISSERTATION
SM43
The General Rules of the University and Faculty Rules shall apply as stipulated.

MASTERS STUDY BY RESEARCH

DURATION OF STUDY
SM44
The Faculty Rules shall apply as stipulated.

REQUIREMENTS FOR AWARDING A MASTERS DEGREE
SM45
The General Rules of the University and Faculty Rules shall apply as stipulated.

SUBMISSION OF DISSERTATION
SM46
The General Rules of the University and Faculty Rules shall apply as stipulated.

AWARDING OF MARKS
SM47
The Faculty Rules shall apply as stipulated.

CONVERSION OF A MASTERS DEGREE STUDY INTO A DOCTORAL DEGREE

SM48
The General Rules of the University and Faculty Rules shall apply as stipulated.

MASTERS STUDY BY COURSEWORK

DURATION OF STUDY

SM49
The Faculty Rules shall apply as stipulated.

REQUIREMENTS FOR AWARDING A COURSEWORK MASTERS DEGREE

SM50
In addition to the General Rules the following specific shall apply

The Faculty Rules shall apply as stipulated.

SUBMISSION OF A MINI-DISSERTATION

SM51
The General Rules of the University and Faculty Rules shall apply as stipulated.

AWARDING OF MARKS

SM52
The Faculty Rules shall apply as stipulated.

F. RULES FOR DOCTORAL DEGREE STUDY

ADMISSION FOR DOCTORAL STUDY

SM53
The General Rules of the University and Faculty Rules shall apply as stipulated.

DURATION OF STUDY

SM54
The General Rules of the University and Faculty Rules shall apply as stipulated.

REGISTRATION AND RENEWAL OF REGISTRATION

SM55
The Faculty Rules shall apply as stipulated.

REQUIREMENTS FOR AWARDING A DOCTORAL DEGREE

SM56
The Faculty Rules shall apply as stipulated.

THESIS

SM57
The General Rules of the University and Faculty Rules shall apply as stipulated.
SUBMISSION OF THE THESIS

SM58
The General Rules of the University and Faculty Rules shall apply as stipulated

ASSESSMENT OF THE THESIS

SM59
The General Rules of the University and Faculty Rules shall apply as stipulated

CONFERMENT OF THE DEGREE

SM60
The General Rules of the University and Faculty Rules shall apply as stipulated

PUBLICATION OF A THESIS

SM61
The General Rules of the University and Faculty Rules shall apply as stipulated

AWARDING OF DEGREE honoris causa

SM62
The General Rules of the University and Faculty Rules shall apply as stipulated

GUIDELINES FOR OUTSTANDING ACHIEVEMENT AND ENDEAVOURS

SM63
The General Rules of the University and Faculty Rules shall apply as stipulated

PROCEDURE

SM64
The General Rules of the University and Faculty Rules shall apply as stipulated

ADMISSION FOR DSc DEGREE PROGRAMME

SM65
The Faculty Rules shall apply as stipulated

DURATION

SM66
The Faculty Rules shall apply as stipulated

G. UNDERGRADUATE PROGRAMMES

SMB: UNDERGRADUATE DEGREE PROGRAMMES

SMb1 MBChB DEGREE PROGRAMME (001)

SMb1.1 GENERAL INFORMATION

Students qualifying for admission to MBChB at the Medunsa Campus should obtain the necessary application forms from the Registrar. They are required to enclose the following with their completed application forms
Graduate students from other universities with acceptable academic performance will be considered for admission to MBChB I.

### SMb1.2 SELECTION AND ADMISSION REQUIREMENTS

#### 1.2.1 Selection

(i) For practical reasons only a limited number of applicants can be admitted to the degree programme. Students are therefore selected on merit by a Selection Committee and notified accordingly by the office of the Registrar. The selection criteria and the selection process is decided annually by a subcommittee of Council and Senate.

(ii) Students who have been excluded from University of Limpopo or from any other University may apply as part of the normal admission and selection processes.

#### 1.2.2 Admission requirements

(i) Applications for admission to MBChB I can be considered only from students who are in possession of/or about to receive a Matriculation or Matriculation Exemption Certificate with pass marks of a C (HG) or equivalent in Mathematics and Physical Science.

Note: If an applicant's matriculation certificate does not indicate a pass in Mathematics, a further certificate to the effect that an Assessment in Mathematics of a standard at least equivalent to that of the Matriculation Assessment has been passed, is required.

(ii) Whereas admission of a student is by selection, a request for change of course between faculties should only be handled by application to the other faculty for admission to the following year, via the normal application process.

(iii) From 2006, because of the implementation of the new curriculum, students will no longer be eligible for admission at MBChB II or higher.

(iv) No student shall be permitted to register for any course in the following year of study unless s/he has passed all required courses of the previous year.

(v) A student who has previously been excluded from the University of Limpopo or any other University for academic reasons, must prove academic competence by having successfully completed a relevant three (3) year degree before s/he may be considered for possible selection in terms of the normal selection procedure.

(vi) No student shall be permitted to renew his/her registration unless all outstanding debts have been paid in full or acceptable arrangements have been made with the Director: Finance.

(vii) A student is subject to the rules pertaining to all subjects/courses for that year of study.

(viii) Should a student fail a year of study, the student will then be subject to the rules, which are valid for his/her year of re-registration.

(ix) Any student admitted to MBChB I or promoted to MBChB II – IV, must commence attending the course no later than three weeks after the first lectures/practicals of that study year has commenced. A student who can only start the course, for whatever reason, after that time, will be admitted to that course only in the next academic year. Such students will have to apply to School Board for interruption of studies for the duration of the relevant academic year stating the reasons for this.
SMb1.3 DURATION

The minimum duration of the degree programme is six years, and the maximum duration is 8 years.

SMb1.4 REGISTRATION WITH THE HEALTH PROFESSIONS COUNCIL OF SOUTH AFRICA

Medical students admitted to the University of Limpopo for the first time (MBChB I) must register with the Health Professions Council of South Africa (HPCSA) on or before 28 February.

For registration with the HPCSA as a Medical Student the following is required:

(a) Birth Certificate or ID document
(b) Matriculation/Matriculation Exemption Certificate
(c) Certificate of having passed an Assessment in Mathematics at the required level (where applicable)
(d) Proof of having commenced professional study for the MBChB degree at University of Limpopo (supplied by University of Limpopo)
(e) A registration fee determined by the HPCSA

Students who have successfully completed the fifth year of study, are required to register with the HPCSA as Student Interns for the sixth year of study.

SMb1.5 CURRICULUM

1.5.1 MBChB I

ASSESSMENT COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLGY105</td>
<td>Biology I</td>
<td>22</td>
</tr>
<tr>
<td>BPHY105</td>
<td>Biophysics 1A</td>
<td>22</td>
</tr>
<tr>
<td>CHMY105</td>
<td>Chemistry 1A</td>
<td>22</td>
</tr>
<tr>
<td>HUSC105</td>
<td>Human Science</td>
<td>12</td>
</tr>
<tr>
<td>ENGS105</td>
<td>English Language</td>
<td>14</td>
</tr>
<tr>
<td>POME105</td>
<td>Practice of Medicine I (includes Primary Emergency Care)</td>
<td>28</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>120 Credits</strong></td>
</tr>
</tbody>
</table>

1.5.2 MBChB II

ASSESSMENT COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTM208</td>
<td>Anatomy IC</td>
<td>62</td>
</tr>
<tr>
<td>PHYL208</td>
<td>Physiology 1A</td>
<td>68</td>
</tr>
<tr>
<td>POME203</td>
<td>Practice of Medicine II</td>
<td>42</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>172 Credits</strong></td>
</tr>
</tbody>
</table>

1.5.3 MBChB III

ASSESSMENT COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANPA307</td>
<td>Anatomical Pathology</td>
<td>36</td>
</tr>
<tr>
<td>MICR307</td>
<td>Medical Microbiology</td>
<td>36</td>
</tr>
<tr>
<td>MEPS304</td>
<td>Medical Psychology</td>
<td>22</td>
</tr>
<tr>
<td>PHAR307</td>
<td>Pharmacology</td>
<td>30</td>
</tr>
<tr>
<td>POME302</td>
<td>Practice of Medicine III</td>
<td>44</td>
</tr>
<tr>
<td>SELE301</td>
<td>Selective I</td>
<td>16</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>184 Credits</strong></td>
</tr>
</tbody>
</table>
### ASSESSMENT COURSES

#### MBChB IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEPA403</td>
<td>Chemical Pathology</td>
<td>40</td>
</tr>
<tr>
<td>CPAR403</td>
<td>Clinical Pharmacology</td>
<td>16</td>
</tr>
<tr>
<td>COHE403</td>
<td>Public Health Medicine</td>
<td>32</td>
</tr>
<tr>
<td>FORM403</td>
<td>Forensic Medicine</td>
<td>16</td>
</tr>
<tr>
<td>POME405</td>
<td>Practice of Medicine IV</td>
<td>80</td>
</tr>
<tr>
<td>SELE402</td>
<td>Selective II</td>
<td>16</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>200</strong></td>
</tr>
</tbody>
</table>

#### MBChB V

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDI502</td>
<td>Internal Medicine</td>
<td>36</td>
</tr>
<tr>
<td>SURG502</td>
<td>General Surgery</td>
<td>36</td>
</tr>
<tr>
<td>OBGY502</td>
<td>Obstetrics and Gynaecology</td>
<td>36</td>
</tr>
<tr>
<td>PACH502</td>
<td>Paediatrics and Child Health</td>
<td>36</td>
</tr>
<tr>
<td>PSIC 504</td>
<td>Psychiatry</td>
<td>36</td>
</tr>
<tr>
<td>POME502</td>
<td>Practice of Medicine V</td>
<td>60</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>240</strong></td>
</tr>
</tbody>
</table>

#### MBChB VI

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDI601</td>
<td>Internal Medicine</td>
<td>40</td>
</tr>
<tr>
<td>SURG601</td>
<td>General Surgery</td>
<td>40</td>
</tr>
<tr>
<td>FAME601</td>
<td>Family Medicine</td>
<td>40</td>
</tr>
<tr>
<td>OBGY601</td>
<td>Obstetrics and Gynaecology</td>
<td>40</td>
</tr>
<tr>
<td>PACH601</td>
<td>Paediatrics and Child Health</td>
<td>40</td>
</tr>
<tr>
<td>PSIC601</td>
<td>Psychiatry</td>
<td>24</td>
</tr>
<tr>
<td>ORTH601</td>
<td>Orthopaedics</td>
<td>20</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>244</strong></td>
</tr>
</tbody>
</table>

### SMb1.6 RULES APPLICABLE TO THE MBChB DEGREE PROGRAMME

The following Rules pertaining to the MBChB degree programme in the Schools of Medicine and Pathology, supplement certain of the General Rules quoted in G1 to G29.

#### 1.6.1 Exemption / Assessment

(i) A student in the first, second or third year who repeats a year of study may be exempted from courses in accordance with General Rule G8.

(ii) No exemption can be granted for clinical work in the MBChB curriculum.

(iii) A student who repeats any of the Assessment courses of the fourth year of study must re-attend all the clinical blocks and do Practice of Medicine IV.

(iv) A student who has obtained a First Aid or Primary Emergency Care certificate, may not be exempted from the First Aid/Primary Emergency Care component of POME I or POME IV.

(v) MBChB V Repeaters

(a) A student who fails three or more of the six clinical courses, i.e. Internal Medicine; General Surgery; Obstetrics and Gynaecology; Paediatrics and Child Health; Psychiatry, Practice of Medicine will repeat the whole year. Such a student must repeat all the clinical blocks
• do all the End of Block Assessments
• write the theory Assessment only in those major clinical courses that have been failed

(b) A student who fails:
   (aa) two Assessment courses at MBChB V, or who fails POME V (even if this is the only course failed)
   • registers for MBChB V for six months
   • repeats only the courses failed, does the end of block assessments and writes the Assessments in June.
   (bb) A student who has not fulfilled the requirements as stated under (aa) by June is required to continue the courses and pass them at the end of year Assessments
   (cc) one Assessment course at MBChB V, with the exception of POME V (see (aa) above)
   • registers for MBChB V
   • repeats the MBChB V block failed, over the full duration of the clinical block and writes an Assessment in the course after the clinical block in order to commence MBChB VI study in the next clinical block.
   • the student registers for MBChB VI for those courses that he/she is able to complete before the 31st of December of that year of registration.
   • Should a student fail the Assessment, he/she may be examined in accordance with (aa) above.

(vi) A student who obtains a mark of 60% (or as stated in the individual departmental regulations) or higher in the year mark, has passed all tests (50% and above or as stated in the individual departmental regulations) and has completed all other stated clinical/practical requirements, may apply in writing to the department for exemption from the whole or parts of the final Assessment as specified by the specific department provided that these assessments have been quality assured in accordance with the General Rules.

1.6.2 Failing a year

A student who fails any Assessment course in any year fails the year.

Note that all MBChB courses are year courses. All year courses in the Faculty of Health Sciences must be examined as such, and not as semester or modularized courses.

1.6.3 Practice of Medicine

(i) Repeating students who previously passed POME I, II, III and IV

   Any student who fails any year, in which Practice of Medicine has been implemented, must also register for Practice of Medicine even if POME was passed in the previous year, because of its clinical component. Such a student may however be granted provisional exemption. This does not apply to POME V.

(ii) Students who interrupted studies or were previously excluded from MBChB studies

   (a) Any student who previously interrupted his/her studies or was excluded for academic reasons in any year prior to the implementation of Practice of Medicine, has to register for Practice of Medicine applicable to the year in which he/she is admitted.
   
   (b) The student does not have to do Practice of Medicine for the previous years, but the onus is on the student to obtain such skills from the previous years Practice of Medicine that may be required.

   (iii) (a) Internal Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry and Paediatrics are clinical components of POME IV in the 4th year.
(b) A clinical component requires that the student be assessed before promotion and in order to be promoted to 5th year a student must pass a clinical and/or a theory assessment in the above subject.

(c) The clinical assessment will take place at the end of the clinical block (EBA).

(d) The theoretical assessment can occur either at the completion of the scheduled lectures or on a continuous evaluation basis throughout the year.

(e) The pass mark for both clinical and theoretical assessment is 50%.

<table>
<thead>
<tr>
<th>1.6.4 Oral Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Oral Assessments will be adapted to suit the needs of the course concerned.</td>
</tr>
<tr>
<td>(ii) Heads of departments must inform all students at the beginning of the year in writing if an oral Assessment would form part of the evaluation process and if so, the contribution these marks would make to their final marks.</td>
</tr>
<tr>
<td>(iii) For practical purposes of validity and reliability, the examiners for oral Assessments should preferably prepare a list of parallel/equivalent questions.</td>
</tr>
<tr>
<td>(iv) Special provision and/or allowances will be made for students with speech impairments of any nature in oral Assessments.</td>
</tr>
<tr>
<td>(v) A permanent verifiable record of the response of the student should be recorded and kept by the department.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.6.5 Assessments/Re-Assessments and Tests: MBChB VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) The MBChB VI Assessment will be offered at the end of each clinical block, with External Examiners involved in the Assessment.</td>
</tr>
<tr>
<td>(ii) The Assessments will consist of an oral and/or clinical assessment in each of the Assessment courses, but written assessments may be included provided it was included in the end of block assessment and was indicated in the published teaching programme.</td>
</tr>
<tr>
<td>(iii) As Assessments are now offered at the end of each block, Exemptions are no longer relevant.</td>
</tr>
<tr>
<td>(iv) An average mark of 50% is a pass but a student must pass the clinical section of the final Assessment.</td>
</tr>
<tr>
<td>(v) Rules G13.1 and Mb1.6.6 (i) and (ii) applies to MBChB VI.</td>
</tr>
<tr>
<td>(vi) No mid-year Assessments are offered from 2008.</td>
</tr>
<tr>
<td>(vii) A student who fails any end-of-block or final Assessment will be allowed to write a re-Assessment in the failed course at the end of the year. Should the student fail the re-Assessment, he/she will have to repeat a block in the failed discipline in the following year.</td>
</tr>
<tr>
<td>(viii) A student who obtains between 70% and 74% in the end-of-block Assessment may apply in writing to the department to enter for the Assessment in that discipline in the year-end Assessment in order to improve the mark. If the student obtains a higher mark, it will replace the marks of the end-of-block Assessment on the academic record. If the student does not obtain a higher mark, the end-of-block mark will be retained.</td>
</tr>
</tbody>
</table>
| (ix) If by the year-end Assessment a student has failed not more than two courses, the student will repeat the one or two failed blocks. The minimum period of clinical exposure will be one final year block per discipline failed. The end of block Assessment will be handled by the department(s) concerned, but an external examiner must be involved. The student does not re-register as it is considered to be a re-Assessment and the student will be responsible for
his/her own accommodation off campus, or has to pay accommodation fees. However, if the student fails to complete the block/s before the third week of April, the student must re-register for MBChB VI in order to graduate the following year.

(x) If by the year-end Assessment a student has failed or has outstanding three or more courses, the student must re-register for MBChB VI½ and must repeat a clinical rotation in each of the courses failed and be examined during the end-of-block Assessment(s).

(xi) If a student has not completed all the requirements for graduation at the end of two complete years in MBChB VI, the student is excluded. If re-admitted he/she will be required to do a status Assessment for MBChB V, before repeating all six final year disciplines.

1.6.6 Clinical Attendance Requirements

(i) If a student does not comply with the attendance requirements for the relevant clinical block as detailed in the published teaching programme of the department, the Head of the Department may refuse permission for the student to enter for the next summative assessment in that discipline until he or she has met the attendance requirements.

(ii) Permission to take the summative assessment in a final year discipline is therefore dependent on satisfactory clinical attendance and performance during the formative assessment.

(iii) Specific departmental requirements must be approved by Medex on behalf of School Board of Medicine and must be brought to the attention of the students in writing at the beginning of the year.

(iv) Clinical students in MBChB V and VI are NOT exempted from clinical work on weekends, Public Holidays or University lecture free days.

1.6.7 Granting of Degrees

(i) The degree MBChB is awarded to a student who has passed all courses of the sixth year.

(ii) The degree with distinction is awarded to a student who obtains an average mark of 75% for the six final year courses and not less than 60% in any individual final year course, or a distinction in at least four courses and not less than 60% in the others.

1.6.8 Courses in advance/Carrying of subject

(i) No courses in advance are allowed in any of the years in the MBChB course.

(ii) No carrying of subjects is allowed in any of the years in the MBChB course.

(iii) Students who have a light academic load due to exemptions from a previous qualification are advised to register for subjects outside the MBChB curriculum for NDP. *(Non degree purposes)*

1.6.9 Applications for Interruption of Studies

Applications for interruption of studies should be submitted to the Office of the Executive Dean not later than the last day of the first semester, for ratification by the 2nd annual meeting of Senate. Only exceptional cases should come through to the 3rd annual meeting of Senate.

1.6.10 Interruption of Studies

(i) A student who for any reason should interrupt his/her studies with or without permission of School Board of Medicine for a period of three (3) years or longer will be required to successfully complete a status Assessment of the last completed year of his/her study, before being allowed to continue with his/her studies.

(ii) Status Assessment for the first 3 years of study entails a written Assessment of all courses; for courses from the 4th year onwards, this entails redoing of the whole course: theory as well as
attestation and EOB assessment. A re-Assessment of the status Assessment in the same Assessment period is allowed in each subject.

(iii) Rules Mb1.6.1 (ii) and Mb1.6.10 (i) shall apply to any student who is re-admitted to MBChB, after exclusion from the University or excluded from another faculty.

(iv) A student who fails a year twice or a course twice will be excluded from the course except in the 5th and 6th years. In the 5th and 6th year, a student who failed any course twice will be allowed one more opportunity to repeat the subject/s. This rule is to be read together with 1.6.1 (vi) for 5th year students, and with 1.6.5(xii) for 6th year students.

(v) In the case of a student who suffers from a psychological or psychiatric ailment or from substance abuse of any kind that is professionally assessed to impair his/her function, such student will be deemed to have interrupted his/her studies. This interruption however, will only be effected if the duration of such illness exceeds more than three calendar months per two-year period or is significant enough to interrupt the academic programme.

(vi) For re-admission, such a student will need to submit evidence of an attack-free period of at least one year, furnished by two independent registered psychiatrists. Notwithstanding this requirement, the University reserves the right to request an independent psychiatric assessment from its own Psychiatrist.

(vii) In the event of a student who has been found during the course of his/her studies to be suffering from a psychological or psychiatric disorder or from substance abuse of any kind, the Faculty is obligated to inform the HPCSA about the student’s condition. The student concerned will be informed accordingly. The fitness to practice his/her profession in such a case will be decided upon by the HPCSA.

1.6.11 Assessment Fraud

Refer General Rule G17.

SMb1.7 DEPARTMENTAL RULES APPLICABLE TO THE MBChB DEGREE PROGRAMME

All departments should make available to students in writing the following information at the beginning of the academic year or the practical block in the final year:

(i) Dates and times of tests and other assessments.

(ii) Method by means of which year marks will be calculated.

(iii) Circumstances under which exemption could be granted from the final Assessment.

(iv) Method of assessment which would be used.

SMb1.8 HEPATITIS B VACCINE

It is the student’s responsibility to get vaccinated against Hepatitis B in the first year of MBChB. If a student has already been immunized, he/she should present a certificate as proof.

SMb2 B RAD (DIAGN) DEGREE PROGRAMME (006)

SMb2.1 SELECTION AND ADMISSION REQUIREMENTS

2.1.1 Selection

(i) For practical reasons only a limited number of applicants can be admitted to the degree programme. Candidates who fulfill the University admission requirements have to be interviewed before the final selection can be concluded.
(ii) Students who have been refused re-registration in a Faculty of Medicine at any other University shall not be admitted to this degree programme.

2.1.2 Admission requirements

Applicants must be at least 18 years of age and be in possession of a Matriculation/ Matriculation Exemption Certificate with pass marks in Mathematics and Physical Science, a combined Swedish Rating of 9 on higher/standard grade.

### SMb2.2 GENERAL

2.2.1 Registration with the Health Professions Council of South Africa

Students admitted for the first time must register with the Health Professions Council of South Africa on or before 28 February of the current year. The HPCSA requires the following before registration can be effected:

(a) Birth Certificate or ID document
(b) Matriculation/Matriculation Exemption Certificate
(c) Proof of having commenced professional study for the B Rad degree at University of Limpopo (supplied by University of Limpopo)
(d) A registration fee determined by the HPCSA

2.2.2 Clinical Education and Practice

Students receive clinical education and practice at accredited hospitals. This means that the students, apart from registering with University of Limpopo for the theoretical education, are appointed as honorary students by the Dr George Mukhari Hospital and Polokwane/Mankweng Complex. As such they fall under the jurisdiction of the relevant hospital rules and must comply with the Guidelines and Policy set by those Provincial hospital Services.

2.2.3 Duration

Minimum three (3) academic years and maximum 5 years full-time study.

### SMb2.3 CURRICULUM

2.3.1 B Rad (Diagn) I (006)

**ASSESSMENT COURSES**

<table>
<thead>
<tr>
<th>Clinical:</th>
<th>Non-Clinical:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATE101 Radiation Techniques I</td>
<td>ANTM113 Anatomy IA</td>
</tr>
<tr>
<td></td>
<td>IMRE101 Image Recording I</td>
</tr>
<tr>
<td></td>
<td>BPHY102 Biophysics IB</td>
</tr>
<tr>
<td></td>
<td>ENGS106 English Language</td>
</tr>
<tr>
<td></td>
<td>Total 120 Credits</td>
</tr>
</tbody>
</table>

2.3.2 B Rad (Diagn) II

**ASSESSMENT COURSES**

<table>
<thead>
<tr>
<th>Clinical:</th>
<th>Non-Clinical:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATE201 Radiation Techniques II</td>
<td>PHYL204 Physiology IB</td>
</tr>
<tr>
<td></td>
<td>IMRE201 Image Recording II</td>
</tr>
<tr>
<td></td>
<td>BPHY202 Biophysics IIB</td>
</tr>
<tr>
<td></td>
<td>BPHY203 Biophysics IIC (Radiation Physics)</td>
</tr>
<tr>
<td></td>
<td>Total 120 Credits</td>
</tr>
</tbody>
</table>
### 2.3.3 B Rad (Diagn) III

#### ASSESSMENT COURSES

<table>
<thead>
<tr>
<th>Clinical:</th>
<th>Non-Clinical:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATE301 Radiation Techniques III</td>
<td>34</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PAAN301 Pathology and Anatomy</td>
<td>34</td>
</tr>
<tr>
<td>IMRE301 Image Recording III</td>
<td>26</td>
</tr>
<tr>
<td>BPHY302 Biophysics IIIB</td>
<td>26</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 Credits</strong></td>
</tr>
</tbody>
</table>

### SMb2.4 RULES APPLICABLE TO THE B RAD (DIAGN) DEGREE PROGRAMME

#### 2.4.1 Assessment Mark

Final combined Assessment mark is calculated according to rule G8:8.3 for Radiation Techniques I, II & III a sub-minimum of 60% year mark is required for clinical part of the course and 50% for the theoretical part.

A student who fails to obtain one of the two year mark sub-minimums (60% clinical and 50% theory) will not be allowed to sit for the Radiation Techniques Assessment.

#### 2.4.2 Re-Assessments

(i) The General rule G10 applies

(ii) A student may be admitted to re-Assessment in all courses failed

(iii) A BRad III student who fails the standard Assessments as well as the re-Assessment has to repeat the year. Clinical practice appropriate to the course will also be repeated.

(iv) A final year student, who passes all the written Assessments and clinical assessments but fails to comply with the number of clinical hours as specified by the HPCSA, does not have to re-register except for accommodation and has to complete these hours before the end of March.

(v) However, if the student fails to complete the outstanding hours within the period specified, he/she must re-register for BRad III ½ to complete these clinical hours in order to graduate the following year.

(vi) During the periods of completing the outstanding clinical hours the student must perform the clinical radiographic techniques applicable to the final year of study to the satisfaction of the department.

(vii) A final year student who fails one oral in the re-Assessment, he/she must re-register for BRad III ½ to complete the programme.

(viii) The re-Assessment will be handled by the department and an external examiner will be involved. However, if a student fails 2 or more oral Assessments, he/she will repeat the year.

(ix) Should a student fail more than two courses he/she will the whole year.

(x) If a student fails first and second year twice, rule G13.3 (ii) will apply except in the final year where the rule G15 is applicable.

#### 2.4.3 Exemptions

(i) Provisional exemption is granted for Radiation Techniques I, II and III only for students who are repeating other subjects. Students must obtain at least 60% in the clinical part and 50% in theory part to obtain full exemption.
(ii) Full exemption in other courses is granted to students who have obtained at least 50% in the Assessment.

2.4.4 Professional Board


(ii) The minimum number of practical hours, which is required of a student over the three year course is 2500 hours.

(iii) Emergency duty should only be undertaken after 3 months of training and then only under the supervision of a fully qualified radiographer. Students should acquire emergency duty experience for a total of at least 240 hours per annum during their second and third year of training.

(iv) A certified record of practical experience is required for each student.

(v) Continuous clinical evaluation with due reference to the theoretical syllabi is carried out throughout the three years of training.

2.4.5 Granting of Degree

The Degree in Diagnostic Radiography is awarded to a student who has passed all courses of the third year and has complied with all the practical requirements of the programme.

2.4.6 Degree with Distinction

The degree with distinction is granted to a student who obtains an average of at least 75% for the third year Assessments courses with a sub-minimum of 65% in any one course.

H. POSTGRADUATE PROGRAMMES

SMH: HONOURS DEGREE PROGRAMMES

SMH1 BSc (MED) (HONS) DEGREE PROGRAMME

SMH1.1 SELECTION AND ADMISSION REQUIREMENTS

1.1.1 Selection

(i) For practical reasons only a limited number of applicants can be admitted to the degree programme. Students are therefore selected on merit by a Selection Committee and notified accordingly by the Office of the Registrar.

(ii) Students who have been refused re-registration in a Faculty of Medicine at any other University shall not be admitted to this Medical Faculty.

1.1.2 Admission requirements

(i) Students who hold the BSc (Med) degree from University of Limpopo or equivalent qualification from another South African university can register for the degree if selected (if the requirement of (c) below is met).
Students who hold similar qualifications may enquire from the heads of the various departments concerned what the requirements would be for them to obtain BSc (Med) Status at University of Limpopo. No person is, however, automatically entitled to BSc (Med) status regardless of the type and number of qualifications they hold.

Normally no student who obtained less than 60% for the course in question at the pre-graduate level will be allowed to do the Honours degree programme without having written a special Admission examination. The head of the department will determine the nature of such an Admission examination.

In certain circumstances students with non-degree qualifications can be admitted to this degree program after completion of a full BSc (Med) Status examination and upon recommendation by Senate.

A full BSc (Med) Status examination would consist of a BSc (Med) examination in two courses at third year level of which one would be the course in which the student intends to do their Honour’s degree programme. The two courses have to be written in the same examination. The examination will therefore not differ in any way from that of students for the BSc (Med) degree (except as for (vi)).

No re-examination will be allowed in a status examination but students will be allowed a second attempt to pass the examination.

As in the case of graduates, students in a status examination will have to obtain at least 60% in the course in which they intend to do an Honour's degree programme.

Only two attempts at passing the status examination will be allowed.

Should the student fail one course, both full examinations will have to be repeated at the end of the following year.

### SMH1.2 DURATION OF THE COURSE

The duration of the programme shall be a minimum of one academic year full-time or two successive academic years part-time, unless otherwise indicated by the respective department.

### SMH1.3 CURRICULUM

The degree may firstly be taken in any branch of a major course as mutually agreed upon in consultation with the head of the relevant department. The full curriculum to be covered, including possible additional requirements, will be submitted to Senate for approval.

The degree programme may be taken in any of the following disciplines:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>062</td>
<td>Anatomy</td>
<td>ANTM606</td>
<td>Anatomy</td>
</tr>
<tr>
<td>064</td>
<td>Medical Physics</td>
<td>MEPH606</td>
<td>Medical Physics</td>
</tr>
<tr>
<td>066</td>
<td>Human Genetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>070</td>
<td>Pharmacology</td>
<td>PHAR606</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>071</td>
<td>Physiology</td>
<td>PHYL606</td>
<td>Physiology</td>
</tr>
<tr>
<td>073</td>
<td>Environmental Health</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

It is considered that a BSc (Med) graduate has a sufficient grounding in the basic medical courses (Anatomy, Physiology) to qualify for post-graduate study in these fields. Moreover, wherever practicable students will be required to attend the normal lecture programme in the discipline concerned together with the relevant medical student group concurrently with their honours study. Admission to the honour's programme shall at all times be subject to the approval of the head of the relevant department and acceptance of the prescribed curriculum by the student.
An honour's degree programme may also be taken in Medical Physics. However, in this instance the Admission requirement is a BSc degree with Physics or Biophysics as a major course. Depending on the other courses of the student's BSc curriculum, the head of the department may require that he attends specified courses (e.g. Physiology) concurrently with his honour's study, or he may specify that a particular course is a prerequisite for Admission to BSc (Med) (Hons) in Medical Physics.

SMH2 BSc (MED) (HONS) IN MEDICAL PHYSICS DEGREE PROGRAMME (064)

SMH2.1 CURRICULA

(i) Medical Physics (MEPH606)

The degree programme consists of eight (8) modules and practical work

(a) Prerequisite
BSc with Physics as a major course

(b) Curriculum
The following modules are compulsory:
P1 Radiation Physics and Radiation Protection RPRP601
P2 Medical Physics in Radiology MPRL601
P3 Medical Physics in Nuclear Medicine MPNM601
P4 Medical Physics in Radiotherapy MPRT601
Four of the following five modules can be selected:
P5 Mathematical Methods in Medical Physics MMMP601
P6 Electronics for Medical Physics ELMP601
P7 Nuclear Physics NUPH601
P8 Statistical Mechanics STME601
P9 Electrodynamics ELDY601

Note: Any other substitute module may be taken after consultation and with approval of the Head of department of Medical Physics. The Assessment in each module will consist of one written paper. These modules are required by the HPCSA for registration purposes.

(c) Duration of programme
This degree programme extends over a minimum period of two years and a maximum period of four years. (Normally it is an in-service-training course).

(d) Registration with the HPCSA
After having obtained the BSc (Med) (Hons) degree in Medical Physics and having completed the required in-service-training programme in a recognized institution, a student may register with the Health Professions Council of South Africa (HPCSA), as a Medical Physicist

Note: A student in possession of a BSc (Hons) degree in Physics or a higher degree may enroll for the modules marked with an asterix (non-degree purposes) to qualify for registration

(ii) The curriculum for each discipline can be obtained from the respective head of department.

SMH2.2 TIME ALLOTMENT AND PROGRAMME PLANNING

Heads of department shall determine curricula according to individual circumstances and organise lectures and practicals at their discretion.
SMH2.3 SYLLABI

Syllabi for honour's study in all the above fields of study are available and will be presented to students on Admission to the programme.

SMH2.4 ADDITIONAL COURSES/PRESCRIBED WORK

(i) It is the prerogative of the head of the department to prescribe study of such additional courses, as he may deem necessary concurrently with the honour's study.

(ii) A course in Statistics is required.

(iii) Practical laboratory work may be undertaken on specific projects. The student may be required to submit written reports on his/her work.

SMH2.5 REGISTRATION WITH THE HEALTH PROFESSIONS COUNCIL OF SOUTH AFRICA

Students who do the BSc (Med) (Hons) in any discipline should request registration as a Medical Scientist in training at the Professional Board for Medical Sciences at the Health Professions Council of South Africa. After obtaining the degree, all successful students may register as Medical Scientists in the category Biological Sciences after having obtained the required practical experience in a laboratory registered for that purpose.

Note: To register in the category Clinical Biochemistry students will have to be in possession of an MSc (Med) in Medical Biochemistry and obtain the required experience in a laboratory registered for that purpose.

SMH3 BSc (MED) (HONS) ENVIRONMENTAL HEALTH DEGREE PROGRAMME (073)

SMH3.1 SELECTION AND ADMISSION REQUIREMENTS

3.1.1 Selection

For practical reasons only a limited number of applicants can be submitted to the degree programme. Students are therefore selected on merit by a Selection committee and notified accordingly by the Office of the Registrar.

3.1.2 Admission Requirements

Applicants must be in possession of a National Higher Diploma or B Tech in Public/Environmental Health or a BSc degree in Public Hygiene/Health, biological sciences, natural sciences or a National Diploma in Public/Environmental Health and a 3-year degree, or a National Higher Diploma or B Tech in Medical Technology.

SMH3.2 DURATION OF THE COURSE

3 years part-time on a block system.

SMH3.3 CURRICULUM

(i) This course addresses the ecology of humans within their environment, social as well as physical and embraces the health implications of industrial and agricultural activities together with the problems of waste generated by production and consumption.

(ii) All the subjects in the curriculum are examination subjects.

(iii) The annual sequence of examination courses may be varied at the discretion of the University.
The general examination rules for an Honours degree apply. A student who fails a subject in a particular year may be admitted for an examination on one further occasion in the same year.

A student who fails an examination twice applicable in a particular year shall re-register as a student for another annual training programme related to the subject before s/he writes the subject examination and rule 7.3(iv) is then also applicable.

<table>
<thead>
<tr>
<th>3.3.1</th>
<th>BSc (Med) (Hons) Environmental Health (073)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXAMINATION COURSES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>First year</strong></td>
<td></td>
</tr>
<tr>
<td>BIRM601 Biostatics and Research Methodology</td>
<td></td>
</tr>
<tr>
<td>EHMA601 Environmental Health Management I</td>
<td></td>
</tr>
<tr>
<td>EPID603 Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PHRM601 Personnel/Human Resources Management I</td>
<td></td>
</tr>
<tr>
<td><strong>Second year</strong></td>
<td></td>
</tr>
<tr>
<td>PHRM602 Personnel/Human Resources Management II</td>
<td></td>
</tr>
<tr>
<td>EHMA602 Environmental Health Management II</td>
<td></td>
</tr>
<tr>
<td>IHMA601 Industrial Health Management I</td>
<td></td>
</tr>
<tr>
<td><strong>Third year</strong></td>
<td></td>
</tr>
<tr>
<td>IHMA602 Industrial Health Management II</td>
<td></td>
</tr>
<tr>
<td>HEAD601 Health Administration Capita Selecta</td>
<td></td>
</tr>
<tr>
<td>COSC601 Communication Science Capita Selecta</td>
<td></td>
</tr>
</tbody>
</table>

SMH4 BSc (MED) (HONS) IN PHYSIOLOGY (071)

**SMH4.1 SELECTION AND ADMISSION REQUIREMENTS**

**SELECTION**

For practical reasons only a limited number of applicants can be admitted to the degree programme. Students are therefore selected on merit by a Selection Committee and notified accordingly by the Office of the Registrar.

**ADMISSION**

(i) Applicants must be in possession of a BSc degree with Physiology as a major course and Biochemistry as an ancillary subject.

(ii) Normally, no student who obtained less than 60% for Physiology at pre-graduate level will be allowed to do the honours degree programme without having written a special admission examination. The head of the department will determine the nature of such an admission examination.

**SMH4.2 DURATION OF THE COURSE**

1 academic year.

Only full-time students can be accommodated.

**SMH4.3 CURRICULUM**

The course will consist of the following:

General Physiology and Physiological Chemistry
4.3.1 Time allotment and Programme Planning

Available from the Head of the Department.

4.3.2 Year mark

Mark allocation available from the Head of Department.

Counts 60% towards the final combined mark.

4.3.3 Examinations

Consist of two 3-hour written papers and an oral examination with sub-minimums of 40%. Count 40% towards the final combined mark.

Paper 1   General Physiology, Physiological Chemistry and Capita Selecta on Advanced Physiology
Paper 2   Literature Reviews, Research Project(s), Techniques and Relevant Physiology
Oral      All the work
Research Methodology (REME801)
Bio-statistics (BIOZ701)

4.3.4 Granting of Degree

To qualify for the degree, candidates are required to obtain a final combined mark of 50% and pass marks in Research Methodology and Bio-statistics.

**SMM: MASTERS DEGREE PROGRAMMES**

**SMM1 GENERAL REGULATIONS FOR M MED DEGREE PROGRAMMES (EXCLUDING M MED FAM MED)**

The general rules apply in broad outline only.

**SMM1.1 SELECTION**

(i) Only a limited number of applicants can be admitted to the degree programme.

(ii) Applicants must meet the requirements for appointment to a post of Registrar.

(iii) Selection is on merit.

(iv) Applicants who have been refused re-registration in a Faculty of Health Sciences at any other University shall not be admitted to this Faculty.

(v) Unless otherwise decided by Senate and described in the Faculty or School rules for specific M Med degree courses, the following general regulations apply in all M Med degree courses.
SMM 1.2 ADMISSION AND DURATION

1.2.1 Admission

In order to be admitted to an M Med degree course a candidate must:

(i) be in possession of an MBChB or equivalent degree and be registered with the Health Professions Council of South Africa as a medical practitioner.

(ii) be appointed to a Registrar's post recognised by the HPCSA. This post must be occupied for the full duration of registration as required under these rules.

(iii) meet any other requirements that may be enunciated in the rules for the specific degree for which registration is requested.

1.2.2 Duration

The duration of M Med degrees will be a minimum of four years and maximum is six years, except for surgical disciplines (General Surgery, Plastic Surgery, Orthopaedics, Neurosurgery, Cardio-thoracic Surgery), which will be five years minimum and a maximum of seven years.

SMM 1.3 REGISTRATION AND REGISTRARSHIP

(i) A candidate who is appointed to a Registrar's post between:

(a) January and March will be registered as from January provided that the application with full supporting documentation is submitted to the University by 31st March. A late application will be handled as in MM1.3 (i) (b) and (c) below;

(b) April and August will be registered as from 1st July, provided the application with full supporting documentation is submitted to the University by 31st August. A late application will be handled as in MM1.3 (i) (c) below; and

(c) September and December will be registered as from 1st January of the following year, provided the application is submitted to the University before 31st March of the following year.

(ii) Registration must be renewed annually in January until completion of the course. A student who fails to register annually will not be granted retrospective recognition of the period for which s/he was not registered.

(iii) In general the minimum duration of registration before the degree can be awarded is four years, or longer as stipulated in the Faculty rules for specific M Med courses. The time requirement for granting the degree refers to both the time of registration, and the time of occupation of the registrar's post. The time required for the specific courses may be more than that required by the HPCSA for registration purposes.

(iv) In fulfilment of rule MM 1.3.(ii) above, Senate may on recommendation of the Head of Department and Faculty of Health Sciences recognize up to one year of previous postgraduate or other experience. Such time will be deemed to have been spent in the present Registrar's post when interpreting these rules. Senate is not compelled to recognize previous experience that may be recognized for registration purposes by the HPCSA.

(v) The primary, intermediate and final Assessments must be completed in the time period stipulated by the Faculty rules for the various M Med courses. Senate may on recommendation by the Head of Department, grant extension of this period. Unless Faculty rules specify the maximum period of extension, Senate may stipulate a time by which such Assessment(s) must be completed. The student must register with the university for any such period of extension.
If a student has not completed the required Assessments by the end of the period of registration determined by Faculty rules, or extensions to such time, the Registrar's post must be vacated and the candidate will be deemed excluded from the course.

The candidate has a right to continuation in the Registrar's post during any period of extension granted with respect to the time as defined in rule MM1.3 (ii). However, should a Medical Officer's post be available in the Department, the candidate's appointment may be translated to that of Medical Officer, provided the candidate has completed the required time for registration in the post.

Senate may allow a person occupying a Medical Officer's post in an academic department or a post of demonstrator in the department of Anatomy to register in order for the candidate to write the primary Assessment. The registration will be for non-degree purposes (NDP) but may be recognized for the degree should the candidate subsequently obtain a Registrar's post. Passing the primary Assessment does not guarantee that the candidate will be appointed to a Registrar's post in the department. Up to one year of the time spent in the medical officer post may be recognized for the purposes of rule MM 1.2. (ii).

A total period of one year may be recognized in terms of clauses (iv) and (viii).

If a candidate who is already in possession of a qualification of the SA College of Medicine wishes to register for the M Med degree at University of Limpopo for the first time she/he must be registered for the degree for a period of not less than two years and occupy or have occupied a Registrar's post on the Joint establishment for the same period. The dissertation must be completed within two years of registration unless School Board grants an extension.

A student who is found guilty of misconduct by either the University or employing authority may be de-registered by the University and must then vacate the Registrar's post. A student who de-registers for personal reasons must vacate the Registrar's post unless permission is granted for a specified time of interruption of studies.

**SMM 1.4 ASSESSMENTS AND EXEMPTIONS**

(i) Assessments may be taken in midyear and at the end of the academic year annually.

(ii) In order to pass an Assessment a mark of 50% is required. Sub-minima may be required in sub-divisions of the Assessment.

A candidate for M Med Primary Assessment in Anatomy has to achieve a sub-minimum of 45% in the written Assessment, in order to present him/herself for the oral Assessment in either of these subjects

(iii) Senate may grant a student exemption from a University of Limpopo primary, intermediate or final Assessment by virtue of having passed another Assessment of equivalent standard.

(iv) A student passes an Assessment course by obtaining an overall Assessment mark of 50%. Unless otherwise stated in departmental rules each component of the Assessment must be passed.

(v) An Assessment course is passed with distinction if an overall mark of 75% is obtained.

<table>
<thead>
<tr>
<th>1.4.1 Primary Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) The primary Assessments shall consist of the courses as specified in the specific rules and shall consist of an oral and a written component.</td>
</tr>
<tr>
<td>(ii) The courses may be written at different Assessment periods but all the prescribed courses must be completed within 18 months of taking up the post of Registrar. Senate may grant extension of 6 months on the recommendation by the Head of Department.</td>
</tr>
</tbody>
</table>
Senate may grant exemption from the primary Assessment by virtue of having passed an Assessment recognised by Senate as equivalent. However, foreign qualifications will not be considered for exemption. The primary Assessment of the College of Medicine of South Africa will not necessarily be recognised as equivalent for the purposes of this rule.

### 1.4.1.1 Assessment of M Med Primary Assessments in Physiology

(i) Candidates who obtain less than 45% in the written paper FAIL the Assessment.

(ii) Candidates who obtain 50% or more in the written paper PASS the Assessment.

(iii) Candidates who obtain a mark of 45-49% in the written paper will be invited to attend an oral Assessment. If they obtain a mark of 50% or more in the oral Assessment they PASS the Assessment with a mark of 50%.

(iv) Candidates who obtain a mark of 70-74% will also be invited to attend for an oral Assessment. If they obtain a mark of 75% in the oral Assessment they PASS the Assessment with a mark of 75%, i.e. with distinction.

### 1.4.2 Intermediate Assessments

(i) The courses for the intermediate Assessment (if any) will be prescribed in the Faculty Rules.

(ii) The Assessment may only be undertaken after completion of all the required courses for the primary Assessment and prescribed clinical rotations.

(iii) The intermediate Assessment must be completed at least 1 year before the final date of the final Assessment, but this period may be extended by specific departmental rules.

### 1.4.3 Final Assessments

(i) The courses for the final Assessment will be described in the Faculty Rules.

(ii) All students are required to submit a dissertation or satisfy research requirements prior to writing the final Assessment as specified by Rule MM1.4.4(i).

(iii) If a student has completed the required period of practical training in a registrar’s post, Faculty of Medicine may grant a student who has not written the final Assessment at the end of the prescribed period of six months extension (not more than twice) on written recommendation of the Head of Department. Such a student should vacate the registrar’s post and may write the Assessment in any other post in any Department, within or outside University of Limpopo.

(iv) Unless otherwise determined in the Faculty rules the final Assessment will consist of a written, oral, practical and/or clinical parts.

(v) The practical and/or clinical part of the Assessment may take any format as determined by the head of department (OSCE, OSPE etc) provided that the format of the Assessment was communicated in writing to students in advance.

(vi) No student would be considered to have passed the final M Med Assessment unless the practical and/or clinical part of the Assessment was passed.

(vii) The final M Med Assessment shall be done at University of Limpopo. To obtain the M Med degree such a student shall:
   (a) meet the requirements of rule MM1.4.4 (i), and
   (b) meet the requirement of registration and registrarship of the specific degree.

(viii) The Assessment shall be a University of Limpopo Assessment.

(ix) M Med candidates must submit their research proposals to be approved by REPC in their third year of studies in a 4 year degree programme and by the fourth year in a 5 year degree programme.
Candidates that have satisfied the research requirements as specified by Rule MM1.4.4 (i) and have passed the College Assessment will be exempted from the final M Med Assessment at the University of Limpopo.

1.4.4 Dissertation

(i) This requirement may be met in any ONE of the following ways. They are governed by general university and faculty rules regarding registration with REPC, with supervisors and external examiners as described under rule G24.4, prior to the final Assessment.

(a) Evidence of having presented two different studies of acceptable standard verbally or as posters at acceptable congresses as the primary author. A bound copy of the full text as presented at the congress, including an introduction and references must be submitted to the University by an external examiner appointed on recommendation by the head of department;

(b) Acceptance of a peer-reviewed research article in the form of scientific letter, case report, short communication, or full paper (excluding letters to Editor, opinion letters to Editor, and reviews) in the relevant discipline for publication in accredited journal as the primary author. A hard copy of the published article(s) or accepted article as submitted to journal, including certified copies of acceptance letters from the Journal Editor, must be submitted to the University before the degree will be awarded. External Examiners reports are not required.

(ii) (a) The examiners who are to mark the dissertation are required to return the examiners’ report within 8 weeks.

(b) Should they not return the report within that time the faculty office will remind the examiner(s) of the requirements and report the matter to the Head of Department and the Executive Dean.

(c) The supervisor who has to compile a single report reflecting the views of all the examiners, must return this single report within three weeks after receipt of the examiners report.

(d) Should the report not be returned on time, the Executive Dean will take up the matter.

(e) If the recommendation is that the degree be conferred after the revision of minor errors, then the Executive Dean may sign the HPCSA Form 19, enabling the student to become registered as a specialist. The University will however, only confer the degree after the three hard-covered properly bound copies have been submitted to the Office of the Registrar.

SMM1.5 GRANTING OF DEGREE

(i) The degree of M Med is granted to a student who has completed the stipulated period of registration and registrarship and who has passed all the required Assessments.

(ii) The degree is awarded with distinction to a student who obtains a minimum of 75% in the final Assessment and in the dissertation/research requirements.

SMM1.6 REGISTRATION FOR PhD OR MD FOLLOWING ON M MED

A candidate wishing to register for a PhD or MD following on an M Med must have submitted a dissertation for the M Med or provide other proof of research ability such as published research in an accredited journal.
**SMM2 M MED (ANAESTHESIOLOGY) DEGREE PROGRAMME (025)**

**SMM 2.1 CLINICAL EXPERIENCE REQUIRED**

Clinical experience must be obtained over a four-year period and a maximum of six years.

**SMM 2.2 CURRICULUM**

2.2.1 Primary Assessment courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPM701</td>
<td>General Physiology</td>
</tr>
<tr>
<td>PHAR701</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>AMPS701</td>
<td>Applied Medical Physics and Statistics</td>
</tr>
</tbody>
</table>

2.2.2 Final Assessment course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANEM761</td>
<td>Anaesthesiology, including:</td>
</tr>
<tr>
<td>HPPA701</td>
<td>History, Principles and Practice of Anaesthesiology</td>
</tr>
<tr>
<td>CMSA701</td>
<td>Clinical Medicine and Surgery related to the Practice of Anaesthesiology</td>
</tr>
<tr>
<td>AAPA701</td>
<td>Application of Anatomy and Pathology to the Practice of Anaesthesiology</td>
</tr>
</tbody>
</table>

2.2.3 Dissertation

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANA761</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

**SMM3 M MED (COMMUNITY HEALTH) DEGREE PROGRAMME (029)**

**SMM3.1 CURRICULUM**

3.1.1 Duration of Degree Programme

The duration of the degree programme in Community Health is four years and a maximum of six years.

3.1.2 Registrarship

Students will be rotated through and exposed to health services in various parts of the country and must be prepared to accept prolonged absences from their usual place of residence.

3.1.3 Primary Assessment courses

All primary Assessment courses must be completed within 30 months of registration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHRC701</td>
<td>Communicable and non-communicable health related conditions</td>
</tr>
<tr>
<td>ATHS701</td>
<td>Administrative theory and the health related social sciences</td>
</tr>
<tr>
<td>ETBD701</td>
<td>Epidemiologic theory, biostatistics and demography</td>
</tr>
</tbody>
</table>

3.1.4 Final Assessment course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COHE761</td>
<td>Community Health (Major)</td>
</tr>
</tbody>
</table>

3.1.5 Dissertation

A dissertation (DICH761) in strict accordance with General Rule G23.4 is required. The dissertation, in its final and corrected form, must be handed in to the Head of the Department not less than 30 days before commencement of the Assessment period during which the student intends to take the final Assessment.
### SMM3.2 ASSESSMENTS

#### 3.2.1 Primary Assessments

Only one re-Assessment shall be granted for each primary course provided that the total allowed period of 30 months shall not be exceeded.

#### 3.2.2 Final Assessment

(i) The final Assessment may not be taken within three years of enrolment.

(ii) The written Assessment consists of three separate papers as follows:

Health Services Administration  
Systematic and Interventional Epidemiology  
Environmental Health

(iii) The final combined mark is calculated in a ratio of 60:20:20 for the written, oral and practical parts respectively. A sub-minimum of 50% in the written Assessment and 40% in both the practical and oral Assessments is required.

(iv) A student who has passed the final Assessment of the College of Medicine of South Africa may be exempted from writing the final M Med Assessment, provided that a representative of the University is present at such an Assessment. In order to qualify for the Degree a dissertation in accordance with Rule MM7.1.5 is required. The dissertation in its final and corrected form must be handed in to the Head of the Department not less than 30 days before commencement of the Assessment period during which the student intends to take the final Assessment.

#### 3.2.3 Dissertation

The dissertation must be passed separately and independently and a sub-minimum of 50% is required.

### SMM4 M MED (DERMATOLOGY) DEGREE PROGRAMME (030)

#### SMM4.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

#### SMM4.2 CURRICULUM

4.2.1 Primary Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>APAM702</td>
<td>Applied Anatomy and Micro-anatomy</td>
</tr>
<tr>
<td>APPM701</td>
<td>General Physiology</td>
</tr>
</tbody>
</table>

4.2.2 Final Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DERM761</td>
<td>Dermatology (Major) including</td>
</tr>
<tr>
<td>DEPA701</td>
<td>Dermopathology (Ancillary)</td>
</tr>
</tbody>
</table>

4.2.3 Dissertation

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIDE761</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>
SMM5.1 ADMISSION FOR M MED (FAM MED)

See Item 5.2.

SMM5.2 CLINICAL EXPERIENCE REQUIRED

(i) For M Med (Family Medicine) degree, a candidate must actively practise in an approved primary health care post; physicians in private general practice are also eligible.

(ii) The programme has a minimum training period of 4 years and a maximum of six years.

(iii) The candidate must produce evidence of being in possession of an MBChB degree or equivalent qualification for at least 2 (two) years. Such doctors must be fully registered with the Health Professions Council of South Africa.

(iv) Foreign Medical Graduates:
University of Limpopo is committed to helping the development of primary health care services in other parts of Africa. As with South African doctors, foreign graduates need to have had the MBChB degree or equivalent for at least 2(two) years. Under this scheme, such doctors may continue to work in their own primary health care environments while receiving training for University of Limpopo M Med degree in Family Medicine. Such doctors must be fully registered with their own Medical Councils for University of Limpopo to be in a position to enrol them in the distance-learning programme. GP’s in private practice may also register. Prior to registration, all foreign training sites will need to be approved by The Department of Family Medicine & PHC.

(v) It is envisaged that the programme will include a rotation / or experience in any three of the following specialities over a period of three months for each speciality:

- Obstetrics & Gynaecology
- Paediatrics
- Psychiatry
- Internal Medicine
- Orthopaedics / Accident & Emergency

SMM5.3 REQUIREMENTS FOR THE MMED (FAM MED) DEGREE PROGRAMME (FORMERLY M FAM MED)

5.3.1 To be awarded the M Med (Family Medicine) degree the candidate must:

(i) Successfully complete the curriculum for M Med (Family Medicine).

(ii) Complete all assignments, a dissertation (non negotiable), satisfactory attendance at Central and Provincial academic sessions and pass the final Assessment (FAME761). Throughout the course, no form of any plagiarism is tolerated. Any candidate found guilty of plagiarism will be told to withdraw from the course.

(iii) Structure of the course:
A unique feature of this course is that it is not based at one main centre. Distance learning is one of its main features, thereby increasing higher medical education accessibility to family practitioners in rural, semi-rural and urban districts of South Africa and Africa.
5.3.2 To qualify for entrance to the Assessment candidates must satisfy the following requirements:

(i) Eight accepted assignments with a minimum of 6 patient studies. The last assignment must be submitted by the 30\textsuperscript{th} April of each year. Combined mark for assignments to be submitted to Assessments Department. (CBMD761).

(ii) An approved Research Protocol by the Research, Ethics and Publications Committee of the Faculty of Health Sciences, University of Limpopo.

(iii) Attendance credit points as stipulated.

(iv) Recommendation by local facilitator / provincial head of department in terms of Assessment readiness and ability to apply the principles of Family Medicine in practice.

(v) Complies with University’s Assessment regulations.

(vi) The full fees for the degree have been paid.

5.3.3 Duration of the course and Structure

(i) The minimum duration of the course is 4 years and a maximum of six years.

(ii) Students on the course sit their written Assessment at the end of the third year. As regards the course structure, there are four academic sessions each year. In February of each year all students registered for M Med degree in Family Medicine participate in academic sessions and planning in the Central department at University of Limpopo. The remaining academic sessions take place in each of the following provinces:

Gauteng and North West, Mpumalanga (joint), Limpopo Province and African Countries i.e. DRC etc. Students who are in other provinces other than Gauteng, North West, Mpumalanga & Limpopo need to make special arrangements with the department.

(iii) In view of the fact that there is uniformity for all the provinces at the beginning of each academic year this practice will be expected to continue for all the provinces during the rest of the academic year.

In order to simplify the terminology, the academic sessions mentioned above will be referred to as terms i.e. each year has four Academic Terms.

During Terms 1, 2 & 3, students are advised to set aside time for:

(a) Reading (you need to be erudite to receive the degree)
(b) Writing Social Science essays (not copying)
(c) Writing patient studies – not copying chapters from texts
(d) Writing research protocols / or proceeding with research dissertation

During the 1\textsuperscript{st} to 3\textsuperscript{rd} years the programme will be as follows:

**TERM 1** January – February – March
Principles and Practice of Family Medicine
The Consultation & Doctor Patient Relationship
Research Methods
Applied Social Science
Evidence Based Medicine
Critical Reading
Clinical Skills
The Process of learning
The Scientific Method
Medical Ethics
Therapeutics
TERM 2  April – May - June
The Consultation & Doctor Patient Relationship
Applied Social Science
The Process of Learning
Research Methods and topics
Medical Ethics
Evidence Based Medicine
Critical Reading (Journal Club)
Therapeutics
Family, Culture and Community

TERM 3  July – August – September
Principles of Practice of Family Medicine
The Consultation & Doctor Patient Relationship
Applied Social Science
Research Methods
Evidence Based Medicine
The Scientific Method
Critical Reading (Journal Club)
Therapeutics
Family, Culture and Community

3rd year students will be offered participation in a MOCK Assessment and revision course approximately 3 months before the final Assessment.

TERM 4  October – November - December
Principles and Practice of Family Medicine
The Consultation & Doctor Patient Relationship
Applied Social Science
Research Methods
Evidence Based Medicine
Critical Reading (Journal Club)
The Process of Learning
Therapeutics
Family, Culture and Community

4th Year of Study
During the course of the 4th year, students will devote their time to research projects, remaining assignments and skills training. The Masters Degree in Family Medicine will not be awarded to any student who has not satisfactorily completed his/her:

Research dissertation. (Subject Code DIFM761),
Exam (Subject Code FAME761) and
Assignments (Subject Code CBMD761)

(iv) Students who do not pass the final Assessment may repeat the Assessment once. Thereafter special approval of Faculty is required, PROVIDED that no student shall be permitted to continue after 6 years, except with special permission by Higher Degree Committee (HDC) and Senate.

5.3.4  Dissertation

DIFM761  Dissertation

SMM6  M MED (INTERNAL MEDICINE) DEGREE PROGRAMME (034)

SMM6.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.
### SMM6.2 CURRICULUM

#### 6.2.1 Primary Assessment courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPS701</td>
<td>Applied Medical Physics and Statistics</td>
</tr>
<tr>
<td>APPM701</td>
<td>General Physiology</td>
</tr>
<tr>
<td>APAM701</td>
<td>Applied Anatomy</td>
</tr>
</tbody>
</table>

#### 6.2.2 Intermediate Assessment course

**ACBS721** Applied Clinical Basic Sciences, including anatomical pathology, chemical pathology, pharmacology, haematology, ontological pathology, basic radiology and microbiology

The Assessment shall be written and oral.

#### 6.2.3 Final Assessment courses

(i) Admission to the final Assessment shall depend on satisfactory continuous demonstration of clinical competence.

(ii) Students shall have completed and presented a written project prescribed by the Head of the Department or presented a paper at a conference/congress so recognised by the Head of the Department (including MEDUNSA academic day) or published at least one paper in an accredited journal before sitting for the final Assessment.

The final Assessment shall be written, oral and clinical

**INME761** Internal Medicine (Major) including the

**PPPM706** Pathology and Pathophysiological Principles (Ancillary)

**PHAR702** Applied and Clinical Pharmacology (Ancillary)

**Note:** The primary and intermediate Assessment should be completed within 24 months after being reregistered for the M Med course in Internal Medicine.

#### 6.2.4 Dissertation

**DIIM761** Dissertation

### SMM7 M MED (NEUROLOGY) DEGREE PROGRAMME (037)

#### SMM7.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

#### SMM7.2 CURRICULUM

#### 7.2.1 Primary Assessment course

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEAN701</td>
<td>Neuro-anatomy</td>
</tr>
<tr>
<td>NPHY801</td>
<td>Applied Physiology</td>
</tr>
</tbody>
</table>

#### 7.2.2 Final Assessment courses

**CLNE761** Clinical Neurology (Major) including:

**NEPA701** Neuropathology (Ancillary)

#### 7.2.3 Dissertation

**DINE761** Dissertation
**SMM8 M MED (NEUR SURG) DEGREE PROGRAMME (038)**

**SMM8.1 CLINICAL EXPERIENCE REQUIRED**

The minimum clinical experience required is five years and a maximum of seven years.

**SMM8.2 CURRICULUM**

8.2.1 Primary Assessment courses

APAM701 Applied Anatomy
APPM701 General Physiology

8.2.2 Intermediate Assessment course

GPSM724 General Principles of Surgery with emphasis on Intensive Care.

8.2.3 Final Assessment courses

NESU761 Neurological Surgery (Major) including:
NEPA702 Neuropathology (Ancillary)

8.2.4 Dissertation

DINS761 Dissertation

**SMM9 M MED (NUCLEAR MEDICINE) DEGREE PROGRAMME (094)**

**SMM9.1 CLINICAL EXPERIENCE REQUIRED**

Clinical experience must be obtained over a four-year period and a maximum of six years.

**SMM9.2 CURRICULUM**

9.2.1 Primary Assessment courses

APAM701 Applied Anatomy
MEPH701 Medical Physics
APPM701 General Physiology

**Note:** The Assessment will be in the format of 3 x 3-hours written papers and two oral Assessments.

9.2.2 Final Assessment course

NUME761 Nuclear Medicine (Major)

**Note:** This Assessment will be in the format of 2 x 3-hours written papers, one oral Assessment and one practical/clinical Assessment.

9.2.3 Dissertation

DINM761 Dissertation
SMM10 M MED (OBSTETRICS & GYNAECOLOGY) DEGREE PROGRAMME (039)

SMM10.1 CLINICAL EXPERIENCE REQUIRED

(i) Clinical experience must be obtained over a four year period.
(ii) A log book must be filled.
(iii) Rotation in all subspecialities including ICU and Polokwane/Mankweng campus x 3 months.

SMM10.2 CURRICULUM

10.2.1 Primary Assessment courses:

Candidates are expected to write the FCOG Part I within 18 months of joining the department. The syllabus follows that of the College of Medicine of South Africa (O&G) and is available from Head of Department and College website. Candidates should attend General Physiology and Applied Anatomy lecturers/sessions. Please note the syllabus for Part I covers more material than offered by the two subjects. Microbiology, Pharmacology, Pathology and Medical Statistics are required.

10.2.2 Final Assessment courses

(i) Obstetrics and Gynaecology (Part II) in OSPE format and/or Clinical cases OSCE
(ii) prior to examination, a candidate must submit a dissertation DIOG761 of acceptable standard based on original research work or evidence of having published two original articles in an accredited journal.
(iii) A log book must be completed according to College of Medicine (O&G) rules. Registrars are required to have attended 80% of academic meetings in the department viz. Morbidity & Mortality, Academic topic presentations, Journal Club and Clinical case presentations/OSPE sessions. Clinical competence as evaluated by Head of Department will be a requirement prior to sitting for final examination.

SMM11 M MED (OCCUPATIONAL MEDICINE) DEGREE PROGRAMME

SMM 11.1 CURRICULUM

11.1.1 Duration of Degree Programme

The duration of the degree programme in occupational medicine is 4 (four) years.

11.1.2 Registrarship

Students will be rotated through and exposed to health services related to occupational health in various parts of the country and must be prepared to accept prolonged absence from their usual place of residence.

11.1.3 Primary Examination Courses

All primary examination courses must be completed within 24 (twenty-four) months of registration and are similar to the M Med (Community Health) degree programme.

CHRC701 Communicable and non-communicable health-related conditions
ATHS701 Administrative theory and the health-related social sciences
ETBD701 Epidemiologic theory biostatistics and demography
11.1.4 Final examination course

The written part of the final examination consists of separate papers as follows:
- Occupational Hygiene, and
- Occupational and Environmental Medicine.

The practical and oral part of the final examination is a discourse evaluation on a specific field or topic. The final combined mark is calculated in a ratio of 50:50 for the written and oral parts respectively.

11.1.5 Dissertation

A dissertation (DICH761) in strict accordance with general rule G23.4 is required. The dissertation, in its final and corrected form, must be handed in to the Head of the Department not less than 30 (thirty days) before commencement of the examination period during which the student intends to take the final examination.

SMM 11.2 EXAMINATIONS

11.2.1 Primary examinations

Only 1 (one) re-examination shall be granted for each primary course provided that the total allowed period of 30 (thirty) months shall not be exceeded.

11.2.2 Final examinations

(i) The final examination may not be taken within 3 (three) years of enrolment.
(ii) The written examination consists of 2 (two) separate papers as follows: Occupational Hygiene, Occupational and Environmental Medicine.
(iii) The final combined mark is calculated in a ratio of 50:50 for the written and oral parts respectively. A sub-minimum of 50% in the written examination and 50% in the oral examination is required.
(iv) A student who has passed the final examination of the College of Medicine of South Africa may be exempted from writing the final M Med examination, provided that a representative of the University is present at such an examination.

11.2.3 Dissertation

The dissertation in its final and corrected form is part of the final examination. The dissertation must be passed separately and independently and a sub-minimum of 50% is required.

SMM12 M MED (OPHTHALOLOGY) DEGREE PROGRAMME (040)

SMM12.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

SMM12.2 CURRICULUM

12.2.1 Primary Assessment courses

APAM701 Applied Anatomy
APPM701 Applied Physiology
12.2.2 Final Assessment courses

OPHT761 Ophthalmology (Major) including:
OPPA701 Ophthalmic Pathology (Ancillary)

12.2.3 Dissertation

DIOP761 Dissertation

SMM13 M MED (ORTHOPAEDICS) DEGREE PROGRAMME (041)

SMM 13.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a five-year period and a maximum of seven years.

SMM 13.2 CURRICULUM

13.2.1 Primary Assessment courses

APAM701 Applied Anatomy
GPAM701 General Pathology
APPM701 General Physiology

13.2.2 Intermediate Assessment course


13.2.3 Final Assessment course

ORTP761 Orthopaedics (Major)

13.2.4 Dissertation

DIOR761 Dissertation

SMM 13.3 RULES

13.3.1 Intermediate Assessment

This Assessment will be taken after a student has rotated through the relevant and related surgical specialities.

SMM14 M MED (OTORHINOLARYNGOLOGY) DEGREE PROGRAMME (042)

SMM 14.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period.

SMM 14.2 CURRICULUM

14.2.1 Primary Assessment Courses

APAM701 Applied Anatomy
APPM701 General Physiology

14.2.2 Intermediate Assessment Courses

GPSM701 General Principles of Surgery (Ancillary)
PTLG702 Pathology (Ancillary)

14.2.3 Final Assessment Courses

OTOR761 Otorhinolaryngology (Major)

14.2.4 Dissertation

DIOT761 Dissertation

SMM 14.3 DURATION OF TRAINING

4 year full-time specialist training.

SMM 14.4 ASSESSMENTS

These should be staged through and correctly integrated into training period. Their preparation should be appropriately supervised, and clinical and surgical exposure towards them suitably quantified.

SMM15 M MED (PAEDICATRICS & CHILD HEALTH) DEGREE PROGRAMME (043)

SMM 15.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

SMM 15.2 CURRICULUM

15.2.1 Primary Assessment courses

APPM701 General Physiology
PACH701 Paediatrics and Child Health (Part I)
The syllabus follows that of the College of Medicine of South Africa and is available from the Head of Department

Note: The Assessment consists of three written papers. There will be no oral Assessment.

15.2.2 Final Assessment courses

PACH761 Paediatrics and Child Health (Major) (including Community Paediatrics) AND a dissertation (DIPA761) of acceptable standard based on original research work

SMM16 M MED (PLASTIC SURGERY) DEGREE PROGRAMME (045)

SMM 16.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a five-year period and a maximum of seven years.
SMM 16.2 CURRICULUM

16.2.1 Primary Assessment courses

APAM701  Applied Anatomy
APPM701  General Physiology
GPAM701  General Pathology

16.2.2 Intermediate Assessment course

GPSM721  General Principles of Surgery

16.2.3 Final Assessment course

PLRS761  Plastic and Reconstructive Surgery (Major)

16.2.4 Dissertation

DIPL761  Dissertation

SMM 16.3 RULES

16.3.1 Intermediate Assessment

This Assessment will be taken after a student has rotated through the relevant and related surgical specialities.

16.3.2 Final Assessment

The final Assessment may not be taken within four years of enrolment

SMM17 M MED (PSYCHIATRY) DEGREE PROGRAMME (046)

SMM 17.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

SMM 17.2 CURRICULUM

17.2.1 Primary Assessment courses

NEAN701  Neuro-anatomy
NPHY801  Applied Physiology
PSRP701  Psychology, relevant to Psychiatry

17.2.2 Final Assessment course

NRPS701  Neurology, relevant to Psychiatry
PSIC761  Psychiatry (Major)

17.2.3 Dissertation

DIPS761  Dissertation
SMM18 MED (PSYCHIATRY) (CHILD PSYCH) DEGREE PROGRAMME (060)

SMM 18.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period as Psychiatry Registrar. Thereafter two years in Child Psychiatry is needed before registration in this sub-speciality is possible with the HPCSA.

SMM 18.2 CURRICULUM

18.2.1 Primary Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEAN701</td>
<td>Neuro-anatomy</td>
</tr>
<tr>
<td>NPHY801</td>
<td>Applied Physiology</td>
</tr>
<tr>
<td>PSRP701</td>
<td>Psychology, relevant to Psychiatry</td>
</tr>
</tbody>
</table>

18.2.2 Final Assessment course

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRP701</td>
<td>Neurology, relevant to Psychiatry</td>
</tr>
<tr>
<td>PSIC761</td>
<td>Psychiatry (Major)</td>
</tr>
</tbody>
</table>

18.2.3 Further 2 years: Final Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANE721</td>
<td>Paediatric Neurology</td>
</tr>
<tr>
<td>GPAE712</td>
<td>General Paediatrics</td>
</tr>
<tr>
<td>PSCP761</td>
<td>Child Psychology</td>
</tr>
</tbody>
</table>

18.2.4 Dissertation

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIPC761</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

SMM19 M MED (RADIO DIAGNOSTICS) DEGREE PROGRAMME (047)

SMM 19.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a four-year period and a maximum of six years.

SMM 19.2 CURRICULUM

19.2.1 Primary Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>APAM701</td>
<td>Applied Anatomy</td>
</tr>
<tr>
<td>APMP701</td>
<td>Applied Medical Physics</td>
</tr>
</tbody>
</table>

19.2.2 Final Assessment courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD761</td>
<td>Radio Diagnostics and Imaging (Major)</td>
</tr>
</tbody>
</table>

19.2.3 Dissertation

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRD761</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>
SMM20  M MED (RADIOThERAPY) DEGREE PROGRAMME (048)

This degree has temporarily been discontinued.

SMM21  M MED (SURGERY) (GENERAL) DEGREE PROGRAMME (049)

SMM 21.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a five-year period and a maximum of seven years.

SMM 21.2 CURRICULUM

21.2.1  Primary Assessment courses

APAM703  Applied Anatomy (Including Embriology) Primary
GPAM701  General Pathology
APPM701  General Physiology

21.2.2  Intermediate Assessment course

GPSM723  General Principles of Surgery

21.2.3  Final Assessment course

GESM761  General Surgery (Major)

21.2.4  Dissertation

DIGE761  Surgery Dissertation

SMM 21.3 RULES

21.3.1  Intermediate Assessment

This Assessment will be taken after a student has rotated through the relevant and related surgical specialities.

21.3.2  Final Assessment

The final Assessment may not be taken within three years of enrolment.

SMM22  M MED (THORACIC SURGERY) DEGREE PROGRAMME (050)

SMM 22.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a five-year period and a maximum of seven years.
### SMM 22.2 CURRICULUM

**22.2.1 Primary Assessment courses**

- APAM703  Applied Anatomy including Embryology
- APPM701  General Physiology
- GPAM701  General Pathology

**22.2.2 Intermediate Assessment course**

- GPSM724  General Principles of Surgery with emphasis on Intensive Care

**22.2.3 Final Assessment course**

- THOS761  Thoracic Surgery (Major)

**22.2.4 Dissertation**

- DITH761  Dissertation

### SMM 22.3 RULES

**22.3.1 Intermediate Assessment**

This Assessment will be taken after a student has rotated through the relevant and related surgical specialities.

### SMM23 M MED (UROLOGY) DEGREE PROGRAMME (051)

### SMM 23.1 CLINICAL EXPERIENCE REQUIRED

Clinical experience must be obtained over a five-year period and a maximum of seven years.

### SMM 23.2 CURRICULUM

**23.2.1 Primary Assessment courses**

- APAM703  Applied Anatomy including Embryology
- APPM701  General Physiology
- GPAM701  General Pathology

**23.2.2 Intermediate Assessment course**

- GPSM724  General Principles of Surgery with emphasis on Intensive Care

**23.2.3 Final Assessment course**

- UROL761  Urology (Major)

**23.2.4 Dissertation**

- DIUR761  Dissertation
SMM23.3 RULES

23.3.1 Intermediate Assessment

This Assessment will be taken after a student has rotated through the relevant and related surgical specialties.

23.3.2 Final Assessment

The final Assessment may not be taken within four years of enrolment and a maximum of six years.

SMM24 MSc (MED) DEGREE PROGRAMME

SMM 24.1 SELECTION AND ADMISSION REQUIREMENTS

24.1.1 Selection

For practical reasons only a limited number of applicants can be admitted to the degree programme. Students are therefore selected on merit by a Selection Committee in the relevant departments and notified accordingly by the Office of the Registrar.

(i) Students who have been refused re-registration in a Faculty of Medicine at any other University shall not be admitted to this Medical Faculty.

24.1.2 Admission requirements

(i) This course is open to students who are in possession of BSc (Med) (Hons) degree or who have received BSc (Med) (Hons) status. MSc (Med) studies may be continued in the respective fields in accordance with University of Limpopo General rules for postgraduate studies.

(ii) An MBChB graduate may be admitted directly to MSc (Med) studies provided that the duration of the study period for the MSc (Med) course is extended by one year.

(iii) Any candidate accepted for MSc (Med) Physiology who has not done a course in Biostatistics will be required to do Biostatistics (BIOZ 701) as part of the MSc (Med) degree.

SMM24.2 CURRICULUM

A candidate for the degree of MSc (Med) shall execute during not less than one academic year advanced study or research, or both, under the guidance of a supervisor appointed by Senate. The students shall in the first year, enrol for and pass the courses:

REME801 Research Methodology, and
PROD801 Protocol Development

The research may take place in the University or in an institution deemed by the Senate to be part of the University for this purpose.

The candidate shall submit a dissertation at the completion of his/her studies, to the relevant department, or discipline within a department, as follows:

426 Anaesthesiology ANEM808
082 Anatomy ANTM808
427 Cardiology CARD808
428 Community Health COHE808
429 Dermatology DERM808
SMM 24.3 RULES

24.3.1 Appointment of Supervisors and Examiners

(i) For each student qualifying according to the faculty rules for admission, a supervisor shall be appointed who shall have at least the same qualification.

(ii) In all cases two external examiners from outside the University staff establishment having at least the same equivalent qualification will be appointed on recommendation by the School Board.

SMD: DOCTORS DEGREE PROGRAMMES

SMD1 PhD DEGREE PROGRAMME

SMD 1.1 ADMISSION REQUIREMENTS

Unless otherwise indicated, the General Rules for postgraduate students apply.

A candidate for the degree of PhD shall execute during not less than two academic years advanced research under the guidance of a supervisor appointed by Senate. The student shall in the first year, enrol for and pass the courses:

REME801 Research Methodology, and
PROD801 Protocol Development, unless he/she can provide proof of having passed these courses within the previous five years.

The research may take place in the University or in an institution deemed by the Senate to be part of the University for this purpose.
SMD 1.2 CURRICULUM: Thesis

<table>
<thead>
<tr>
<th></th>
<th>Anaesthesiology</th>
<th>ANEM909</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Anatomy</td>
<td>ANTM909</td>
</tr>
<tr>
<td>103</td>
<td>Cardiology</td>
<td>CARD909</td>
</tr>
<tr>
<td>105</td>
<td>Community Health</td>
<td>COHE909</td>
</tr>
<tr>
<td>108</td>
<td>Dermatology</td>
<td>DERM909</td>
</tr>
<tr>
<td>111</td>
<td>Diagnostic Radiography</td>
<td>DRAD909</td>
</tr>
<tr>
<td>110</td>
<td>Diagnostic Radiology</td>
<td>DIRA909</td>
</tr>
<tr>
<td>113</td>
<td>Family Medicine</td>
<td>FAME909</td>
</tr>
<tr>
<td>122</td>
<td>Hand &amp; Microsurgery</td>
<td>HASU909</td>
</tr>
<tr>
<td>116</td>
<td>Internal Medicine</td>
<td>INME909</td>
</tr>
<tr>
<td>118</td>
<td>Medical Physics</td>
<td>MEPH909</td>
</tr>
<tr>
<td>121</td>
<td>Neurology</td>
<td>NEUR909</td>
</tr>
<tr>
<td>123</td>
<td>Neurosurgery</td>
<td>NESU808</td>
</tr>
<tr>
<td>125</td>
<td>Nuclear Medicine</td>
<td>NUME909</td>
</tr>
<tr>
<td>127</td>
<td>Obstetrics and Gynaecology</td>
<td>OBGY909</td>
</tr>
<tr>
<td>129</td>
<td>Ophthalmology</td>
<td>OPHT909</td>
</tr>
<tr>
<td>130</td>
<td>Orthopaedics</td>
<td>ORTP909</td>
</tr>
<tr>
<td>131</td>
<td>Paediatrics &amp; Child Health</td>
<td>PACH909</td>
</tr>
<tr>
<td>132</td>
<td>Pharmacology</td>
<td>PHAR909</td>
</tr>
<tr>
<td>134</td>
<td>Physiology</td>
<td>PHYL909</td>
</tr>
<tr>
<td>136</td>
<td>Psychiatry</td>
<td>PSIC909</td>
</tr>
<tr>
<td>139</td>
<td>Urology</td>
<td>UROL909</td>
</tr>
</tbody>
</table>

SMD 1.3 RULES

1.3.1 Appointment of Supervisors and Examiners

(i) For each student qualifying according to the faculty rules for Admission, a supervisor shall be appointed who shall have at least the same qualification, failing which a co-supervisor with the required qualification shall be appointed.

(ii) In all cases two external examiners from outside the University staff establishment having at least an equivalent qualification will be appointed on recommendation of School Board.

SMD2 MD DEGREE PROGRAMME

The General Rules for post-graduate students apply.

SMD 2.1 SCHOOL RULES

2.1.1 Appointment of Supervisors and Examiners

(i) For each student qualifying according to the faculty rules for Admission, a supervisor shall be appointed who shall have at least the same qualification, failing which a co-supervisor with the required qualification shall be appointed.

(ii) In all cases two external examiners having at least the same qualification will be appointed on recommendation by the School Board.
SMD 3.1 ADMISSION

(i) A person who wishes to be admitted as a candidate for this degree shall lodge an application with the Registrar submitting such evidence of his academic and general qualifications and such information as the rules or as Senate may, from time to time, require. Registration will only be permitted once a person has been admitted to this degree.

(ii) A person who is not a member of the Convocation and who wishes to proceed to the degree shall not be admitted as a candidate unless Senate is satisfied, on the advice of the board of the Faculty, that there are sound reasons for such Admission.

(iii) Any one of the following may be admitted by Senate as a candidate:

(a) A person in possession of a Doctor of Philosophy or an MD degree of the University of at least four years standing;

(b) A graduate of any other university admitted under section 26(b) of the Universities Act, No 61 of 1955 to the status Doctor of Philosophy or MD and who has held the qualification, by virtue of which such Admission has been granted, for a period of at least four years.
SMD 3.2 DURATION

At least 12 months before the degree may be conferred.

SMD 3.3 ASSESSMENTS

A candidate shall give at least six months notice in writing to the Registrar of his intention to submit his work for Assessment.

(i) Senate shall appoint on recommendation of the Faculty Board, four examiners of whom at least one internal examiner and two shall be external examiners (of whom at least one shall be an international external examiner who are recognized authorities in the field of the submitted publications.

(ii) The candidate shall submit, initially, four unbound copies of the set of publications to be examined. If accepted by the panel of examiners, three bound copies shall be submitted to the Registrar prior to the degree being conferred.

(iii) Should the candidate be the co-author of one or more of the submitted publications, he will be required to state his contribution towards such publication(s) in a statement to be submitted to the Registrar together with the submission of his publications.

(iv) Definition of “Set of Publications”

(a) At least six publications (research articles) should together form one coherent theme. The candidate should be the first author of at least four of the articles. Published abstracts are not permissible.

(b) An introduction that encompasses the set of publications as well as one final conclusion should be added.

SMD 3.4 CONDITIONS FOR THE AWARD OF THE DEGREE

(i) A candidate for the degree of Doctor of Medical Science shall submit for approval by Senate

(a) Work of exceptional standard and a record of original and independent research in a field approved by Senate.

(a) Work which has been published and has constituted or shall constitute a distinguished contribution to the advancement of knowledge in that field.

(ii) Work which has been accepted by any other university for the purpose of having a degree conferred will not be acceptable and the candidate will be required to submit to the Registrar a statement to this effect.

(iii) A candidate for the degree shall be a registered student of the University for at least twelve months before the degree may be conferred.
SMDip: Postgraduate Diploma Programmes

SMDip1 GENERAL RULES APPLICABLE TO POST GRADUATE DIPLOMA PROGRAMMES

1.1 Admission of Diplomates to Honours Studies

In the case of diplomate students, Senate may, on the recommendation of Faculty Board:

(i) grant to a non-university diplomate direct Admission to honours studies subject to such a diplomate passing a full Assessment in all the final year courses of the relevant bachelor's degree programme;

(ii) grant to a university diplomate direct Admission to honours studies provided that he/she has sufficient experience in his/her respective field and passes an entrance Assessment.

1.2 General Policy Regarding Admission of Diplomates to Post-Graduate Studies

(i) In the case of diplomate students, Senate may, on the recommendation of a Faculty Board grant to a non-university diplomate direct Admission to honours studies subject to such a diplomate passing a full Assessment in all the final year courses of the relevant bachelor's degree programme.

(ii) Grant to a university diplomate direct Admission to honour's studies provided that he/she has sufficient experience in his/her respective field and passes an entrance Assessment.

(iii) Grant to a student holding a National Diploma in Occupational Therapy or Physiotherapy direct Admission to honour's degree programme, provided that he/she has sufficient experience in his/her respective field and passes an entrance Assessment equivalent to the final year bachelor's degree Assessment.

SMDip2 DIP IN MEDICAL PHYSICS DIPLOMA PROGRAMME (155)

Information can be obtained from the Head of the Department of Medical Physics.

SMDip3 DIP MATERNAL & CHILD HEALTH DIPLOMA PROGRAMME (148)

SMDip 3.1 ADMISSION REQUIREMENTS

A prospective candidate shall be admitted to the course only if

(i) he/she has held a bachelor’s degree in medicine and surgery or equivalent from a recognised university for a period of not less than 2 years;

(ii) he/she is registered as a Medical Practitioner with the Health Professions Board of South Africa;

(iii) candidates from foreign countries must provide proof of registration as a medical practitioner from their own professional boards. The Diploma, to date, is only registerable with the HPCSA as an additional qualification;

(iv) he/she holds an acceptable position in a comprehensive mother and child health service;
Admission is not automatic and all Admissions are subject to selection by a multidisciplinary selection committee;

The diploma will not necessarily be offered every year.

### SMDip 3.2 DURATION OF THE COURSE

2 Years part-time study. With special permission of Senate, a student who enrolls full-time for Part II, may, in accordance with rule General Rule G26, apply to do Part II and the MSc in Maternal and Child Health concurrently.

### SMDip 3.3 CURRICULUM

<table>
<thead>
<tr>
<th>Part I</th>
<th>MOCH601</th>
<th>Maternal and Child Health I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part II</td>
<td>MOCH602</td>
<td>Maternal and Child Health II</td>
</tr>
</tbody>
</table>

Projects: Each student must complete prescribed project/assignments for both Part I and Part II, the protocol of which must be approved by the relevant Head of Department.

### SMDip 3.4 ASSESSMENTS

Practical, Written, Objective Structured Clinical Assessments (OSCE), clinical and/or oral Assessments, in any combination, as determined by the relevant Head of Department will be held for each subject at the end of the semester or the end of the relevant year.

3.4.1 Re-Assessments

(i) A re-Assessment may be granted in each of the 2 Assessment subjects provided that the candidate has obtained a mark of 40% or more.

(ii) A re-Assessment may only be taken after a period of 6 months has elapsed after sitting for the original Assessment.

### SMDip 3.5 DIPLOMA WITH DISTINCTION

The diploma is awarded with distinction if the average percentage for all the subjects is 75% or more.

### I. SYLLABUS

**Anatomical Pathology (MBChB III & BSc(Med) II)** (ANPA107)

**General Pathology**

Including cell damage; inflammation, healing and hypertrophy; the immune response; immunopathology; infections; host parasite relationships; disturbances of circulation. Miscellaneous degeneration and deposits; tumours; origin, nature and causation; epithelial and other tumours.

**Systems Pathology**

Cardiovascular system; respiratory system; nervous system; reproductive system, male and female; gastrointestinal system; liver biliary tract and exocrine pancreas; urinary system; musculo-skeletal system; skin; endocrine system; blood and bone marrow; lymphoreticular system.

Assessment: 1 written paper, a practical and an oral

**Anatomy IC (MBChB II)** (ANTM108)

The course consists of both gross, microscopic anatomy and embryology. The gross anatomy is taught by formal lectures but mainly by regional dissection. The embryology teaching is co-ordinated
as far as possible with the dissection programme, and entails mainly systematic embryology since introductory and general embryology is completed in the first year as part of the Biology course. Those aspects of anatomy directly related to clinical applications e.g. Topographical Anatomy. Radiological Anatomy is emphasised throughout the course. The remaining portion of the microscopical anatomy not covered in the first year is covered in the second year. This entails formal lectures as well as practical light microscopy of the four primary tissues of the human body, followed by histology lectures of systems and organs supplemented by microscopic study of the different tissues. Learners are evaluated by means of theory tests and practicals. At the end of the year, if a student has written all the tests and has achieved at least 50% in each test, obtained an average mark of 60% or more, s/he may apply to the head of department to be exempted from the final Assessment in Anatomy.

Assessment: Consists of 1 written paper and 2 practical Assessments in Gross Anatomy and Histology

Anatomy (B Rad I) (ANTM113)

This course is similar to that of Anatomy (Nursing). It entails the teaching of systematic human anatomy and surface anatomy for all relevant structures with emphasis on those sections of specific radiological importance.

This is done by means of problem–based lectures, traditional lectures, practicals, demonstrations and tutorials using human material as well as radiographic images. Evaluation is done by means of written theory tests, practicals and assignments.

The same exemption rule as for MBChB II is applied.

Assessment: 1 x 3-hours written paper

Anatomy (B Rad III)

The course includes systematic anatomy as well as sectional anatomy. Systematic anatomy focuses largely on neuro-anatomy, the respiratory and cardiovascular systems as well as the gastrointestinal, genito-urinary systems, with emphasis on radiological important structures. Sectional anatomy focuses on relations of radiological important structures at various anatomically important levels of the human body and is accompanied by practical sessions with both CT/scan/rontgen images and sectional specimens.

Teaching is largely based on problem based learning (PBL), but includes formal lectures, practical sessions, assignments and self study. The same exemption rule as for MBChB II is applied.

Assessment includes one 3 hours paper and an oral Assessment for borderline cases.

Applied Medical Biochemistry

Matter; energy changes; gases; electrolytes and minerals; symbols; reactions; water (pH, dissolution and reaction, osmosis and properties of liquids); energy (production in chemical reactions, conservation, heat production). Biochemistry (composition of carbohydrates, fats and proteins); nutrients (digestion and absorption); cellular metabolism; conservation; synthesis, transmutation and transportation of nutrients; excretion of waste products from the body; biochemical control (enzymes, hormone); fluid balance (buffers, ion-exchange, gas exchange and selective excretion through kidneys, acids, bases, salts, estimation of levels and treatment of imbalance); electrolyte balance; neuro-muscular transmission (disturbances at neuro-muscular level, transmission of impulses in miocardium); principles of drug action, periodic tables; elements; important compounds; detergents and disinfectants.

Theoretical instruction: 60 x 40-minute periods.

Practical instruction: 30 periods

Biology I (BSc(Med) I; M8ChB I) (BLGY105)

Introduction; evolution; taxonomy and systematics; cytology and genetics; tissues and systems; embryology; medically important parasites; medically important carriers; medically important poisonous/venomous animals; medically important plants; ecology and environmental health; animal and plant foods; definitions.

Practical.
Assessment: 2 x 2-hours written papers
Total course Credits: 24

**Biology II**

Advanced cytology - plant and animal cells, fine structure and function of cell organelles. Invertebrates; systematics and life cycle of selected groups with special reference to structure and function. Botany; systematics and life cycle of selected groups; plant structure and function as well as plant physiology and reproduction. The teaching programme comprises five formal lectures and two 3-hour practicals per week.

Assessment: 1 written paper

**Biology III**

Vertebrates; systematics and life cycle of selected groups; fine structure and function; comparative morphology. Genetics and reproduction. Animal physiology; adaptations to various environments by both vertebrates and invertebrates. General ecology. Evolution. The teaching programme comprises five formal lectures and two 3-hours practicals per week.

Assessment: 1 written paper

**Biophysics IA (MBChB I)**

Motion; force and motion; statistics; work and power; elastic properties of materials; heat; gas dynamics; liquids/fluids; static electricity; direct currents; electromagnetism; induced currents; waves; sound; light; mirrors and lenses; nuclear physics; ionising radiation. (This course deals with the application of Physics in biological systems). The teaching program comprises three formal lectures per week and one 2-hour practical and one 2-hour tutorial every alternating week.

Assessment: 1 x 3-hours written paper

**Biophysics IB (B Rad(Diagn) I)**

Mathematics review; vectors; kinematics; dynamics; hydrostatics; fluid flow; general gas law; heat; optics; electrostatics; current electricity; electro magnetism; alternating current; radioactivity; x-rays. The teaching program comprises five formal lectures per week and one 3-hour practical every alternative week.

Assessment: 1 x 3-hours written paper

**Biophysics IIB (Equipment) (B Rad(Diagn) II)**

Review of electricity: current, voltage, resistance, DC, AC transformers, capacitor, mains voltage, three phase supply, power. Basic electronics: diodes, transistors, SCR, operational amplifier, digital systems, and computer. X-ray equipment; mains supply; x-ray tubes; x-ray tables and tubestands; high tension control circuits and stabilising equipment; transformers; exposure switching and exposure timers; circuit protection; meters; circuit diagrams; mobile portable and conventional dental units; control of scattered radiation; care and maintenance of equipment

Assessment: 1 x 3-hours written paper

**Biophysics IIC (Radiation Physics) (B Rad(Diagn) II)**

Matter and energy; atomic structure; nuclear structure; radiation and spectra; electromagnetic radiation; radioactivity; production of x-rays; interaction of x-rays with matter; effects of x-rays; measurement of x-ray quantity; dosimetry; filters and filtration; radiation quality; properties of x-ray film; radiographic image; radiation protection.

Assessment: 1 x 3-hours written paper
Biophysics IIIB (Specialised equipment) (B Rad(Diagn) III) (BPHY302)

Special x-ray tubes; mammography units; mass miniature radiographic units; video tape recording apparatus; photo and ionization timers; rapid sequence film changers and roll film apparatus; digital vascular imaging; tomographic equipment; computerisation of data; computer assisted tomography; magnetic resonance equipment; ultrasound; xerography; thermography; fluoroscopic equipment; cine photofluorographic attachments.

Assessment: 1 x 3-hours written paper

Biostatistics and Research Methodology (Environmental Health) (BIRM601)

The collection, collation, depiction, analysis and interpretation of data pertaining to health-related conditions.

Chemical Pathology (MBChB IV) (CEPA103)

Introductory, including methodological and physiological interferences in laboratory tests. The kidneys; sodium and water metabolism; potassium metabolism; hydrogen ion homeostasis and blood gases; pituitary and gonads; hormones of the adrenal cortex; thyroid hormones; carbohydrates; plasma lipids; calcium; phosphorus and magnesium metabolism; intestinal absorption; gastric and pancreatic function; liver diseases and gallstones; plasma proteins and immunoglobulins; proteinuria; plasma enzymes; cardiac biomarkers; inborn errors of metabolism; purine and uric acid metabolism; iron metabolism; porphyrins; vitamins; pregnancy and oral contraceptives; biochemical effects of tumours; cerebrospinal fluid.

Practical: 2 practicals
Assessment: 1 written paper and an oral

Chemistry IA (BSc(Med) I; MBChB I) (CHMY105)

Introduction to general chemistry; atoms, ions, and molecules; chemical laws; bonding; stoichiometry; the three states of aggregation; solutions and mixtures; structure and reactivity; principles of equilibrium; free energy and spontaneity of reactions; electrochemistry; rates and mechanisms of reactions; radioactivity; stereoisomerism; systematic nomenclature of organic compounds according to functional groups; reactions of classes of organic compounds; chemistry of physiologically important compounds

5 lectures and 1 practical per week
Assessment: 2 x 2½-hours written papers

Clinical Pharmacology (MBChB IV) (CPAR103)

Disease orientated, clinical pharmacology, based on prevalence of disease in the local and national community. Alternative and cost-effective medication is emphasised. Special precautions, prescription writing and legal aspects. Contents: General aspects, drugs used for: infections, respiratory, cardiovascular, gastro-intestinal, genito-urinary, central nervous system, haematological, dermatological ophthalmological, otorhinolaryngological, endocrine, metabolic and musculoskeletal disorders. Drugs used for sexually transmitted diseases, parasitic infections, acute poisoning and vitamins. (No formal lectures, only case presentations; cases cover the mentioned topics).

Assessment: Clinical cases and tests
Assessment: 1 x 3-hours written paper and oral where applicable

Clinical Psychology for MSc

Advanced course in psychodiagnosics; medical and neuropsychology; psychopathology; personality theory; psychotherapy and development psychology. Practical work as well as an internship at an institution recognised for this purpose by the Health Professions Council of South Africa.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication Science: Capita selecta</strong> <em>(Environmental Health)</em></td>
<td></td>
</tr>
<tr>
<td>Practical and theoretical training in communication skills in the private</td>
<td></td>
</tr>
<tr>
<td>and public sectors at all levels of government or management. Pedagogic</td>
<td></td>
</tr>
<tr>
<td>skills. Methods of Health Education.</td>
<td></td>
</tr>
<tr>
<td>A series of lectures as set out per topic below.</td>
<td></td>
</tr>
<tr>
<td>Anatomical Pathology (40 lectures), Internal Medicine (40 lectures),</td>
<td></td>
</tr>
<tr>
<td>Pharmacology (20 lectures.)</td>
<td></td>
</tr>
<tr>
<td><strong>Community Health</strong> <em>(MBChB IV)</em> <em>(COHE103)</em></td>
<td></td>
</tr>
<tr>
<td>Basic ecology, Basic biostatistics, demography and epidemiologic theory.</td>
<td></td>
</tr>
<tr>
<td>The epidemiology and intervention of the important health related</td>
<td></td>
</tr>
<tr>
<td>conditions of Southern Africa. Environmental health and occupational</td>
<td></td>
</tr>
<tr>
<td>health. The structure and functions of health delivery organisations in</td>
<td></td>
</tr>
<tr>
<td>South Africa. Basic health legislation. Basic health management</td>
<td></td>
</tr>
<tr>
<td>strategies. Students may be required to perform their own approved study</td>
<td></td>
</tr>
<tr>
<td>project.</td>
<td></td>
</tr>
<tr>
<td>Assessment: 1 written paper</td>
<td></td>
</tr>
<tr>
<td><strong>Curriculum Design and Evaluation</strong> <em>(CDEV201)</em></td>
<td></td>
</tr>
<tr>
<td>Curriculum design levels in SA, The role of an educator in curriculum</td>
<td></td>
</tr>
<tr>
<td>development, the process of curriculum development following the SAQA &amp;</td>
<td></td>
</tr>
<tr>
<td>NOF format; application of higher educational outcomes according to SAQA</td>
<td></td>
</tr>
<tr>
<td>to programmes, elements for curriculum development, application of the</td>
<td></td>
</tr>
<tr>
<td>major philosophies underpinning OBE curriculum. Submission of curriculum</td>
<td></td>
</tr>
<tr>
<td>to SANC</td>
<td></td>
</tr>
<tr>
<td>Curriculum implementation. Comprehensive curriculum and course/programme</td>
<td></td>
</tr>
<tr>
<td>evaluation. Maintaining course/programme accreditation; role of providers,</td>
<td></td>
</tr>
<tr>
<td>role of ETQAs. The responsibility of the educator with regard to</td>
<td></td>
</tr>
<tr>
<td>curriculum review; the multicultural curriculum. Submission of</td>
<td></td>
</tr>
<tr>
<td>qualifications to SAQA (format).</td>
<td></td>
</tr>
<tr>
<td><strong>Dermatology</strong> <em>(DERM302)</em></td>
<td></td>
</tr>
<tr>
<td>Introduction to the study of skin diseases; structure, function and</td>
<td></td>
</tr>
<tr>
<td>physiology of the skin; skin diseases which occur commonly or are</td>
<td></td>
</tr>
<tr>
<td>otherwise of importance; contact dermatitis; industrial dermatoses and</td>
<td></td>
</tr>
<tr>
<td>other cutaneous hazards; cutaneous malignancy.</td>
<td></td>
</tr>
<tr>
<td><strong>English Language</strong> <em>(ENGS105)</em></td>
<td></td>
</tr>
<tr>
<td>Academic Language Skills:</td>
<td></td>
</tr>
<tr>
<td>Reading Skills: text organization (structure), how grammar carries</td>
<td></td>
</tr>
<tr>
<td>meaning, vocabulary development, the importance of purposeful reading,</td>
<td></td>
</tr>
<tr>
<td>reading and interpreting graphic information, reading and using different</td>
<td></td>
</tr>
<tr>
<td>types of sources, critical reading.</td>
<td></td>
</tr>
<tr>
<td>Academic reading</td>
<td></td>
</tr>
<tr>
<td>Writing skills: understanding the writing process, effective writing</td>
<td></td>
</tr>
<tr>
<td>strategies at sentence, paragraph and essay levels, writing and</td>
<td></td>
</tr>
<tr>
<td>assessment, referencing techniques, journaling techniques (for practical</td>
<td></td>
</tr>
<tr>
<td>and clinical).</td>
<td></td>
</tr>
<tr>
<td>Oral presentation of written and research work.</td>
<td></td>
</tr>
<tr>
<td>Total course Credits: 16</td>
<td></td>
</tr>
<tr>
<td><strong>Environmental Health Management I and II</strong> <em>(Environmental Health)</em></td>
<td></td>
</tr>
<tr>
<td>Technical principles to manage the pollution of air, water and soil in</td>
<td></td>
</tr>
<tr>
<td>the environment and to include all man's interrelationships with his</td>
<td></td>
</tr>
<tr>
<td>environment as well as the problems of waste generated by production and</td>
<td></td>
</tr>
<tr>
<td>consumption.</td>
<td></td>
</tr>
<tr>
<td><strong>Epidemiology</strong> <em>(Environmental Health)</em></td>
<td></td>
</tr>
<tr>
<td>Epidemiologic theory. The epidemiology and intervention of the</td>
<td></td>
</tr>
<tr>
<td>important health-related conditions of Southern Africa.</td>
<td></td>
</tr>
</tbody>
</table>
### Family Medicine & Primary Health Care (Undergraduate training)

The course aims to give students an understanding of what Family Medicine and Primary Health Care is, including its development and the need for such a discipline; its principles and core content to give students the opportunity to put the above into practice and begin to learn the skills involved especially interviewing, clinical process and decision making. The bulk of the teaching takes place as clinical tuition. Ongoing evaluation takes place throughout the course. The course is offered at MBChB II, III, IV and VI levels.

### Forensic Medicine (MBChB IV)

Signs of death, post mortem changes and time of death; identification of human remains; blood stains and grouping; types of wounds and injuries; fire arm wounds; injury by blunt instruments; effects of injury; asphyxia; suspicious neonatal death; abortion; sexual offences; the medico legal autopsy; legal considerations. Toxicology: General facts, Carbon Monoxide, Cyanide, Arsenic, Paraffin, Methyl Alcohol, Agricultural Poisons.

**Assessment:** 1 written paper and an oral

### Health Administration: Capita selecta (BSc (Med) (Hons) Environment Health)

Leadership, policy-making, organisation, legislation, methods, control, financing and human resources management in comprehensive health services in Southern Africa.

### Human Anatomy IA

The module provides an introduction to the anatomical structures of the human body including the following systems: musculo-skeletal, respiratory, cardiovascular, neurological, digestive, endocrine, skin etc., for allied health professionals. It will also include embryology and the sensory organs.

### Human Physiology (MBChB II)

It is a comprehensive study of the functioning of the body systems that includes references to the related pathophysiology involved with each system. The course is done in blocks that follow the Anatomy and Histology of a particular system. The interrelationship between all the systems in the maintenance of homeostasis is highlighted throughout the course. If at the end of the year a student has written ALL the tests and has obtained an average mark of 60% or more in the tests, s/he may apply to the head of department to be exempted from the final Assessment in Physiology.

**Assessment:** 2 papers

### Human Science (MBChB I)

Introduction to psychology, medical sociology and anthropology; science and views of man; psychology as a science; principles of learning; intelligence and memory; motivation; psychology and children (development psychology); theories of personality; the self-concept; social psychology; normality; physiological psychology; psychopathology; man as a unity; assessment and therapy; nutrition and behaviour; community health; family and culture; cultural conceptions of health; therapy; society and social structure; family pathology; practical work in medical sociology; practical work in psychology.

**Assessment:** 1 written paper

**Total course Credits:** 22
**Image Recording I** (B Rad (Diagn) I) (IMRE101)

Applied Chemistry, principles of photography, sensitometry, film materials, film holders and cassettes, luminescence; intensifying screens, chemical processing of photographic materials, radiographic image, identification and presentation, exposure charts.

Assessment: 1 written paper, a practical and an oral

**Image Recording II** (B Rad (Diagn) II) (IMRE201)

Sensitometry, luminescence; cassettes and film holders; processing; silver recovery and conservation; optics and cameras; specialised photographic procedures; radiographic image; exposure factors.

Assessment: 1 written paper, a practical and an oral

**Image Recording III** (B Rad (Diagn) III) (IMRE301)

Specialised radiographic recording; stock control; cameras and projectors; cassettes, film holders and cameras; photofluorography; processing; identification and presentation of radiographs; image quality and image quality control, viewing of the radiographic image.

Assessment: 1 written paper, practical and an oral

**Industrial Health Management I and II** (BSc (Med) (Hons) (Environment Health))

Technical principles to manage the recognition, evaluation, prevention and control of industrial hazards, diseases and accidents. Industrial relations and health.

**Internal Medicine** (MBChB III, IV, V and VI)

A practical course in Clinical Methods is introduced in the third year. Whole class lectures are also introduced in the third year and continue through until the end of the fifth year. A course in the principles and practice of Medicine continues throughout the fourth and the fifth year during which students rotate through Medicine blocks. At the end of each practical block the students are assessed by means of a practical case Assessment. At the end of the fifth year a final theoretical multiple choice and short question Assessment paper is set which included questions on Neurology.

The sixth year is a practical year and the medicine block comprises an eight-week period. Student interns in the sixth year are expected to be on call, clerk and follow up patients as part of their ward duties. The final Assessments at the end of the sixth year consist of a clinical and an oral Assessment

**Media resource and Information Technology** (MRIT201)

Application of contemporary media resources and information technology within an educational context; Teaching aids.

**Medical Ethics**

The course deals with the basis of ethics and how ethical behaviour is learnt. The concepts of the medical fraternity as an essentially self-regulatory body; etiquette and legal requirements for Doctors and Interns are discussed. Daily ethical issues including, confidentiality, patient autonomy and consent; the Health Professions Council of South Africa’s Rules for disciplinary steps and major ethical problems such as those around conception, death and distributive justice are studied. Some actual disciplinary past hearings of the HPCSA are discussed during the course.

**Medical Psychology** (MBChB III) (MEPS104)

This course is given by the Department of Clinical Psychology and includes psychoneurology, doctor-patient relationship, pain, stress/anxiety/depression, disease of lifestyle, applications of clinical health psychology, aspects of death and dying.
Medical Microbiology (MBChB III) (MICR107)

Basic microbiology; bacterial genetics; disinfection and sterilisation; antibiotics and antibiotic resistance; systematic and clinical bacteriology; systematic virology; parasitology; immunology; mycology; practicals.

Assessment: 1 written paper, a practical Assessment and an oral

Medicine’s Management (PHMM601)

Manage supply and use of medicines so that medicines are efficient, safe, suitable and available.

Microbiology Molecular Biology (BSc (Med) (Hons))

Molecular Biology; bacteriology; immunology; mycology; parasitology. Practical work.

Assessment: 3 written papers and an oral Assessment

Obstetrics and Gynaecology (MBChB III, IV, V and VI)

The course in Obstetrics and Gynaecology covers the principles and practice of the discipline. Instruction extends over the third, fourth, fifth and sixth years and includes lectures, demonstrations, case discussions, tutorials and ward rounds. Practical experience is gained in the block period in the fourth, fifth and sixth years. Assessments are carried out at the end of each block.

The final written Assessment is held at the end of the year for each class. The final clinical Assessment takes place at the end of the year:

(i) Third Year - POME III curriculum is done in Obstetrics only
(ii) Fourth Year - Obstetrics
   The syllabus consists of a series of 40 lectures covering reproduction genetics and obstetrics. A practical block of 4 weeks. This block includes 40 labour ward, antenatal clinic and ward demonstrations and normal deliveries 2 class tests are written per year with one in each half of the year (20% each). An end of block assessment is conducted at the end of each block and accounts for 20%. The continuous assessment counts for 60% of the assessment mark. The final exam is written at the end of the year and accounts for 40%.
(iii) Fifth Year - Gynaecology
   The syllabus consists of a series of 10 lectures. A practical block of 5 weeks. This block includes 18 tutorials, appropriate ward rounds and clinical demonstrations. A class test is written on completion of the block (counts 20%). The second class test consist of MCQ and counts for 20%. The end of block assessment (clinical case done at the end of block) and accounts for 20% of the final mark and is made up as follows: Continuous assessment accounts for 60%. At the end of the year the written Assessments accounting for 40% of the total mark will be held.
(iv) Sixth Year - Obstetrics and Gynaecology
   The syllabus consists of a student internship of 7 weeks (3 1/2 weeks obstetrics and 3 1/2 gynaecology). Daily tutorial/seminar (Monday - Friday) are held with assistance of private specialists. Clinical duties in both obs and gynae are allocated to students including calls. Students are expected to present at labour ward rounds and at grand rounds to Consultants/Registrars.

All groups shall have EBA as full Assessment in the presence of external examiners; this EBA will comprise of clinical cases which counts 60%. All students will have done OSCE and Slide show with a minimum of 50% in each. Students who pass EBA with 60% will have passed O&G. Students who fail EBA, OSCE and Slide show will have full Assessment during mid-year exam or end of the year Assessment, Note: All groups before mid-year exams have a second opportunity. All groups in second semester have their second opportunity during the end of year Assessment. All students failing mid-year or end of year Assessments will repeat the full block the following year.
The syllabus for undergraduate paediatrics extends from the 4th to the 6th year. Training consists of lectures on paediatric topics, whole class seminars, small group tutorials and clinical ward rounds. MBChB IV students attend 30 morning sessions of clinical teaching. Three weeks of this time is devoted to Community Paediatrics. The MBChB IV students perform the attachment to Paediatrics as part of POME IV.

The MBChB V students attend five weeks of teaching. They also attend the Paediatric Outpatient Department to learn ambulatory Paediatrics. MBChB VI students spend a 7 week block period in the wards. They rotate through general Paediatric medical wards, neonatology and a peripheral hospital. The final Assessments in Paediatrics are taken at the end of the 5th year (written) and end of the 6th year (clinical Assessment).

Pathology and Anatomy (B Rad III) (PAAN101)

Module I - General Pathology
Cell damage; inflammation; healing and hypertrophy; the immune response; immunopathology, disturbances of circulation. Miscellaneous degeneration and deposits; tumours, origin, nature and causation; epithelial and other tumours. Instruction: 32 x 40-min periods.

Module II - Systemic Pathology
Cardiovascular system; respiratory system; nervous system; reproductive system, male and female; gastrointestinal system; liver biliary tract and exocrine pancreas; urinary system; musculo-skeletal system; endocrine system; blood and bone marrow; lymphoreticular system. Instruction: 88 x 40-min periods

Module III - Radiological Pathology
Relevant pathological conditions and related anatomy as demonstrated radiographically are covered in this course. Theoretical instruction is highlighted with the practical use of radiographic images to aid in the recognition of the pathological conditions in the different anatomical systems. Instructions: 24 x 40-min periods.

Module IV - Cross-sectional Anatomy
Cross-sectional anatomy of the head, trunk and limbs is covered in this course by means of formal lectures, practicals and demonstration using human material as well as radiographic images. Instruction: 36 x 40-min periods
Total instruction (Modules I-IV): minimum of 120 hrs.

Assessment: 1 x 3-hours paper and an oral

Personnel Management A & B (BSc) (Med) (Hons) (Environmental Health)

A course over two years aimed at the management and administration of Environmental Health Services in the public and private sectors based on general principles.

Pharmacology (Basic) (MBChB III) (PHAR107)

Principles of pharmacokinetics and pharmacodynamics, systematic pharmacology based on chemical classification, receptor systems, tissue or organ systems and disease. Each drug group is discussed under: kinetics - (routes of administration, absorption, distribution, metabolism, and excretion), dynamics (mechanism of action, pharmacological effects, indications, side effects, adverse effects, contra-indications, drug interactions) and toxicology.
Theoretical instruction: 120 x 40-minute lectures plus 20 practicals/seminars, tutorials

Assessment: 3-hours paper
Comprehensive study of the functioning of the following body systems: metabolic system, including digestion, metabolism, nutrition and body temperature; nervous system, including nerve and muscle physiology and special senses; body fluid system, including renal physiology, haematology and acid-base physiology; respiratory system: cardiovascular system; endocrinology and reproduction. If at the end of the year a student has written ALL the tests and has obtained at least 50% in each test, and an average mark of 60% or more in the tests, he/she will obtain a final mark of 60^, irrespective of the actual year mark. An exempted student has the option of writing the final Assessment in Physiology.

Assessment: 2 written papers

Basic principles of the following body systems: digestion and control of body temperature: nervous system, including nerve and muscle physiology and special senses; body fluid system, including renal physiology, haematology and acid-base balance; respiratory system; cardiovascular system: endocrinology and reproduction. Instruction: Theoretical: 180 x 40 min periods; Practical: 45 periods (minimum 120 hours). If at the end of the year a student has written ALL the tests and has obtained at least 50% in each test, and an average mark of 60% or more in the tests, s/he may apply to the head of department to be exempted from the final Assessment in Physiology.

Assessment: 2 x 3-hours written papers

This course is offered at MBChB I level and serves as an introduction to Communications in the health context, the Language of Ethics, Biostatistics, Health Systems in South Africa and the legal system as related to Health. The students will have a chance to acquire the skills of understanding the patient's agenda, taking a patient's vital signs, acquiring principles of Primary Emergency Care and the prospect of beginning a learning portfolio on a patient with hypertension.

This course is offered at MBChB II level and serves to offer the students the opportunity to learn about the Consultation, Principles of Bio-ethics, Principles of Epidemiology and Integrated Management of Childhood Illnesses. It will also provide them with the opportunity to acquire skills of History taking, Assessment of peripheral signs and the eyes and ears. They will develop portfolios on patients who have anaemia or jaundice.

This course is offered at MBChB III level and will offer the students the opportunity to learn about the Diagnostic Process. It will also give them the chance to acquire the skills of keeping Medical records, routine Assessment, obstetric Assessment and normal vertex delivery and the prospect of continuing to build learning portfolios on patients with diabetes mellitus and oedema.

This course is offered at MBChB IV level and will offer the students the opportunity to rotate for 6 weeks in Medicine, Surgery (including Orthopaedics one morning a week), Obstetrics and Gynaecology, Paediatrics and Psychiatry. There will be weekly lectures in Internal Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, Psychiatry and other disciplines including Orthopaedics, Radiology, Nutrition and Family Medicine. The focus will be on the identification of common clinical signs and an understanding of the underlying pathophysiology. Portfolio learning will continue.
### Practice of Medicine V (POME502)

This course is offered at MBChB V level and will offer the students practical experience and theoretical institution in Anaesthesiology, Ophthalmology, Otorhinolaryngology and Orthopaedics. Pathophysiology and Pathology within the wider context of integrated medicine will be offered as Problem-Based Learning, focussing on the themes of Congestive Cardiac Failure, Peptic Ulcer, The Severely Traumatised Patient and Thyroid Disease. The student will be expected to continue with Portfolio building.

### Psychiatry Courses (MBChB III – IV)

(i) MBChB III and IV
Medical psychology, offered in the MBChB III course by the Department of Clinical Psychology, serves as an introduction to Psychopathology, offered by the Department of Psychiatry, in the MBChB IV course. These two courses include the following topics: Personality stress in health and illness; Psychosomatic disorders and pain; Clinical Psychology and medicine.

(ii) MBChB V and VI
In the MBChB V and VI year courses the students do clinical psychiatry working in the wards and attending case conferences and are evaluated in accordance with their clinical progress.

### Psychology and Mental Health Care

Physiological basis of psychology: the human personality; motivation of conduct; frustration and conflict; defence mechanisms; emotion; attitudes; group morale, leadership; communication; human relations; the child; the adolescent; the adult and the aged person as a patient. Mental health care, psychosomatic and psychopathological conditions; broad concept of the management of patients with mental disturbances in hospitals and the community. Theoretical instruction: 60 x 40-minute periods.

### Psychology I (BSc(Med) I) (PCLY101)


Practicals
Assessment: 1 written paper

### Psychology II (BSc(Med) II) (PCLY201)

Research methodology (Selected topics) and descriptive statistics. Introduction to assessment and diagnostics. Introduction to interviewing, counselling and psychotherapy. Personality theories. Developmental Psychology, with emphasis on infancy, youth and adolescence; learning problems. Industrial Psychology. Introduction to Medical Psychology. Social, Environmental and Community Psychology (selected topics).

Practicals
Assessment: 2 written papers

### Psychology III (PCLY301)

The module shall include (selected topics) and inferential statistics. Cultural and cross-cultural psychology. Social and community psychology (selected topics). Psychoneurology. Psychopharmacology. Psychophysiology. Interviewing: basic skills. Systematic Psychology.

Practicals
Assessment: 2 written papers
**Psychology (Hons)**


Practicals
Assessment: 5 x 3-hours written papers

**Radiation Techniques I (B Rad (Diagn) I) (RATE101)**

Patient and the radiographer, administration-hospital and department organisation, practical nursing procedures, first aid, general patient care, hygiene in X-ray department, sterilisation, drugs in the X-ray department. Radiation hazard, ward radiography, theatre radiography, fundamentals of diagnostic radiography, radiographic Assessments and techniques: skeletal system, abdomen, respiratory system.

Assessment: 1 written paper, a practical and an oral

**Radiation Techniques II (B Rad (Diagn) II) (RATE201)**

Protection, radiographic Assessment of skeletal system, abdomen, alimentary system; biliary, genito-urinary system; obstetrics & gynaecology; cardio-vascular system; respiratory system, fluoroscopy; high-voltage technique, foreign bodies, multiple radiography; macrocardiography; contrast media.

Assessment: 1 written paper, a practical and an oral

**Radiation Techniques III (B Rad (Diagn) III) (RATE301)**

Skull, tomography, biliary system; genito-urinary system; obstetrics and gynaecology; cardio-vascular system; lymphatic system; respiratory system; central nervous system; salivary glands; anthography; discography; sinography; lachrymal system; ductless glands; stereography; domiciliary radiography; operating theatre procedures; ward radiography; paediatric radiography; soft tissue differentiation; administration; ultrasound; computed tomography; nuclear magnetic resonance; contemporary diagnostic radiation techniques; fundamental of nuclear medicine; fundamentals of radiotherapy.

Assessment: 1 written paper, a practical and an oral

**Undergraduate Research Project (UGRP401)**

After completion of research design module I, students attend departmental research workshops conducted by the research coordinator on identifying a research topic as well as how to develop a research proposal. Each student shall select a research topic from the following fields of study: Respiratory, Neurological Rehabilitation, Community and Orthopaedics. The topic gets peer reviewed and accepted by the department. The proposals will be submitted to the Research ethics committee (MREC) for approval by the University, students will be allowed to execute their research projects thereafter.

Final evaluation: Submission of two copies of a printed and one bound research report and oral presentation of the research findings.

TOTAL COURSE CREDITS: 12 credits

OoO