Faculty of

Health Sciences

Nelson R Mandela School of Medicine

Durban

2003

UNIVERSITY OF NATAL
DURBAN, EDGEWOOD & PIETERMARITZBURG CAMPUSES
THE POWER TO SUCCEED

FACULTY
OF
HEALTH SCIENCES

HANDBOOK FOR 2003

DEAN
M B Kistnasamy *MB ChB MMed (Comm Health) (Natal)*

DEPUTY DEAN
M J Matjila *MB ChB MMed (Comm Health) (Natal)*

OPERATIONS MANAGER
Mrs P Coopoo *BA (Social Work) BA (Hons) (Psych) MMed Sc (Social Work)*

ADDRESSES AND TELEPHONE NUMBERS

THE REGISTRAR
UNIVERSITY OF NATAL

719 Umbilo Road
Durban 4001

Private Bag 7
Congella 4013

Telephone (031) 260-4111
Telefax (031) 260-4410

STAFF OF THE FACULTY OF HEALTH SCIENCES

Dean	**M B Kistnasamy** *MBChB MMed(CommHealth)(Natal)*
Deputy Dean	**M J Matjila** *MBChB MMed(CommHealth)(Natal)*
Operations Manager	**Mrs P Coopoo** *BA (Social Work) BA (Hons) (Psych) MMedSc (Social Work)*

ANAESTHETICS

SCHOOL OF CLINICAL SCIENCES

Professor *	**D A Rocke** *MBBCh(Wales) FRCP(Edin) FFA(SA) Fellow of the University of Natal*
Research Professor	**C C Rout** *MBBS(London) FFARCS(England)*
Deputy Head/Senior Lecturer	**R C Burrows** *BA MBBCh(Dublin) FFA(SA)*
Senior Lecturers	**C Daniel** *MBChB(Cape Town) DA(SA) MMed(Anaes)(Stell)*
	R Williamson *BSc(Hons) MBChB(Bristol) DA FFARCS(England)*
Lecturers	**I J S Osborn** *MBChB(Cape Town) MMed(Anaes)(Natal)*
	Y H Mahomedy *MBChB (Natal) BMedSc(Hons)Pharm(UDW) DARCP&S(Eng) FFARCS(Irel) FRCA(UK)*
	D Gopalan *MBChB(Natal) FCA(SA)Critical Care*
	U Singh *MBChB(Natal) FCA(SA)*
	P Muchandigona *MBChB(Zim) FCA(SA)*
	B Biccard *MBChB(Cape Town) DA(SA) FCA(SA)*
	A Joyalemi *MBChB(Al Mustansiriyah) FCA(SA)*
	L Cronje *MBChB(Cape Town) FCA(SA)*
	S Parson *MBChB (Witwatersrand) FCA(SA)*
	I T Opai-Tetteh *MBChB (Ghana) DA (SA) FCA (SA)*
	D Singh *MBChB (Medunsa) FCA (SA)*
	A G Hunter *MBChB (Witwatersrand) FCA (SA)*
Honorary Senior Lecturer	**T E Sommerville** *BSc(Med) MBChB(Cape Town) DA(SA) FFA(SA)*

Honorary Lecturers	**D H Barrett** *MBChB(Cape Town) DipObst(SA) FCA (SA)*
	R E Hodgson *MBChB(Cape Town) FCA(SA)Critical Care*

CARDIOTHORACIC SURGERY — **SCHOOL OF CLINICAL SCIENCES**

Professor	*Vacant*
Senior Lecturer	**D F Blyth** *MBChB(Cape Town) FRCS(Edinburgh)*
Lecturers *	**A Reddi** *MBChB(Natal) FCS(SA) FRCS(Edinburgh)*
Deputy Head	**N J Buckels** *MBBS (London) FRCS(Edinburgh) FRCS (England)*
	R Madansein *MBChB(Natal) FCS(SA)*
	R Sewsunker *MBChB(Natal) FCS(SA)*
	J D Winter *MBChB(Natal) FCS(SA)*

CHEMICAL PATHOLOGY — **SCHOOL OF PATHOLOGY & LABORATORY MEDICINE**

Professor	Vacant
Emeritus Professor	**S M Joubert** *MSc(Stell) MBChB FRCPath(Edinburgh)*
Associate Professor	**R J Pegoraro** *BScAgric PhD(Natal)*
Lecturers §	**E J Robertson** *MBChB MD Witwatersrand)*
	T Manickum *BSc (Chem) BSc (Hons) PhD (Chem)*
Honorary Lecturer	**N L Pillay** *MBChB (Natal) FFPath (SA)(Natal) MBA (UDW)*

COMMUNITY HEALTH — **SCHOOL OF FAMILY & PUBLIC HEALTH MEDICINE**

Professor * &	**C C Jinabhai** *BSc(UDW) MBChB(Cape Town) MMed(Natal) FFCH(SA) DOH(Witwatersrand)*
Senior Lecturer	**K Naidoo** *MBChB MMed (CommHealth)(Natal)*
Honorary Senior Lecturer	**E Gouws** *BSc(Hons)(Potchefstroom) MSc(Biostatistics)(Natal)*
Honorary Lecturer	**Ms J Kistnasamy** *BTech EnvHealth NDEnvHealth(Technikon Natal) BComm(UDW)*

EXPERIMENTAL & CLINICAL PHARMACOLOGY
SCHOOL OF CLINICAL SCIENCES

Professors *	**J H Botha** *BPharm PhD(Rhodes)*
	B Maharaj *MBChB FCP(SA) MD(Natal) PhD*
Senior Lecturer	**A L Gray** *BPharm MSc(Pharm)(Rhodes)*
Lecturers	**C S Harries** *BSc(Pharm) MMedSci(Pharm)(UDW)*
	M J Mathibe *BPharm(UIN)*
Honorary Associate	**M L McFadyen** *BScPharm(PUCHE)*

Professors	*MSc(Med)(Cape Town) PhD(UDW)*
	D M Raidoo *BSc MBChB PhD*
Honorary Lecturers	**K Kleinschmidt** *BSc(Witwatersrand) MSc(CompSci) MSc(MedStats)(London) PhD (Basle)*
	R N Nadar *MBChB(Natal) FCP(SA)*

FACULTY OF HEALTH SCIENCES

Victor Daitz Professor of HIV/AIDS Research	**H M Coovadia** *MBBS(Bombay) FCP(Paed)(SA) MSc(Imm) Birm) MD(Natal) Fellow of Univ. of Natal DSc(Hon)*

FAMILY MEDICINE	**SCHOOL OF FAMILY & PUBLIC HEALTH MEDICINE**
Servier : Head	Vacant
Senior Lecturer	**S S Naidoo** *MBChB(Natal) MFGP (SA) MFamMed(Natal)*
Honorary Lecturers	**M N Chetty** *MBChB MPrax Med(Natal) DOH MPH(USA) DHS&M DTM&H*
	P Jugnundan *BSc MBChB(Natal) MFGP(Natal) MPraxMed DMCOG (SA)*
	S Kissoon Singh *BSc(SA) MBBS(Mysore) MFGP(SA) MFam Med(Natal)*
	P N Govender *BA(SA) MBChB MPrax Med(Natal) MFGP(SA)*
	U Govind *MBChB(Natal) MFGP MPrax Med(Natal) DOH DTM&H DHSM*
	R S Pillay *MBChB(Natal) MFGP(SA) MFamMed(Natal)*
	A Suleman *BSc MBChB(Natal) MPrax Med(Natal*
	S M H Loot *LLM RCP LLM RCS(Ire) MFGP(SA) DIP PEC(SA) MFamMed(Natal)*

FORENSIC MEDICINE	**SCHOOL OF PATHOLOGY & LABORATORY MEDICINE**
Professor *	Vacant
Lecturer	**S M Aiyer** *MD FC ForPath(SA)*

Honorary Lecturer	**G Perumal** *BSc(UDW) MBChB(Natal) DipForMed (SA) MMed(ForPath) (Natal)*
	B Krysztofiak *DipinMed (Med Acad Gdansk) DipForMed (SA)*
Honorary Junior Lecturer	**G M Kirk** *MBBCh(Witwatersrand) DipForMed (SA)*

HAEMATOLOGY

SCHOOL OF PATHOLOGY & LABORATORY MEDICINE

Associate Professor *	**V B Jogessar** *MBChB MMed DHSM (Natal) MRCP(UK) MRCPath(London) FRCPath(London) FCPath (SA)*
Senior Lecturer	**V L Naicker** *MBChB MMed DHSM(Natal) FFPath (SA)*
Lecturer	**F C Bassa** *MBChB (Natal) FCPath(Haem)(SA) FCPath (Clin Haem)(SA)*
	N Rapiti *MBChB FCPath(SA)*
	D Moodley *MBChB FCPath(SA)*
Honorary Lecturer	**V P Poovalingam** *MBChB MMed(Natal)*

HUMAN ANATOMY

SCHOOL OF MEDICAL SCIENCES

Professor	Vacant
Associate Professor §	**G H M Vawda** *BSc(UDW) MBChB(Natal) PhD(Witwatersrand)*
Lecturers	**E C S Naidu** *MBChB(Natal) MMedSc(Clinical Pharmacology)(UDW)*
	J S Naidu *MBChB(Natal)*
Junior Lecturers	**Vacant**

MEDICAL EDUCATION DEVELOPMENT
SCHOOL OF UNDERGRADUATE EDUCATION (SUE)

Associate Professor (Director)	**P J Olmesdahl** *BScMed(Witwatersrand) PhD(Natal) PGDipMedEd(Dundee) PGDipTertiaryEduc (Natal)*
Associate Professor	**M McLean** *BSc(Hons) MSc(Natal) PhD(Natal) M Ed (Natal)*
Lecturers	**J M van Wyk** *BSc(UWC) BEd(Natal) MEd(Natal)*
	S Singaram *BMedSc(Hons) MMedSc(UDW)*
	N Sunderlall *MBChB(Natal)*

MEDICALLY APPLIED PSYCHOLOGY — **SCHOOL OF FAMILY & PUBLIC HEALTH MEDICINE**

Professor * — **L Schlebusch** *BA(Hons)(Unisa) MA(ClinPsych) MMedSc(Psych) PhD(Natal) NTD(DCT) DipBehavMed (IABMCP) DipMedPsychoth (USA) CPsychol(UK)*

Associate Professors — **B J Pillay** *BA(Hons) MA(ClinPsych)(UDW) PhD(Natal) DHSM(Natal) CPsychol (UK)*

A L Pillay *BA(Hons) MA(ClinPsych)(UDW) MSc(Maternal & Child Health)(Harvard) PhD(Natal)*

Lecturers — **B A Bosch** *BSocSc(Hons) MSocSc(Clin Psych)(Natal)*

N B Vawda *BA(Hons) MA(ClinPsych)(UDW)*

A J Hare *BSocSc(Hons) MSocSc(ClinPsych)(Natal)*

M B Ngcobo *BSocSc(Hons)(Natal) MA(Clin Psych)(UPE)*

S B Noor Mahomed *BA(Hons) MA(Clin Psych)(UDW)*

B Harvey *BA(Hons) MA(Clin Psych) (Rhodes)*

C A Makwakwa *BA(Hons) MA(Clin Psych)(UDW)*

T Naidu *BA(Hons) MA(Clin Psych)(UDW) PGDip (HRM)*

S Singh *BA(Law) HBA MA(Clin Psych) (UDW)*

S R Valjee *BA(Hons) MA(Clin Psych)(UDW)*

MEDICAL MICROBIOLOGY — **SCHOOL OF PATHOLOGY & LABORATORY MEDICINE**

Professor * — **A W Sturm** *MBBS MD PhD(Amsterdam)*

Associate Professor — **Y M Coovadia** *MBChB(Cape Town) FFPath(SA)*

Senior Lecturer — **A Bhamjee** *LRCP&S(Ireland) FRC(Path)(SA)*

Lecturers — **P Moodley** *MBChB (Natal) MMed(Micro)*

M A John *MBChB(Natal) DCH(Paeds) FCPath(Micro)(SA)*

Y Mahabeer *MBChB (Natal) FCPath(Micro)(SA)*

MEDICINE — **SCHOOL OF CLINICAL SCIENCES**

Professor — **U G Lalloo** *MBChB (Natal) FCP (SA) DOH (Wits) MD (Natal) FCCP FRCP (London)*

Deputy Head	**A A Motala** *MBChB MD(Natal) FRCP(London)*
(Aaron Beare Family Chair of Rheumatology)	**G M Mody** *MBChB(Natal) MD(Cape Town) FCP(SA) FRCP(London)*
(Infectious Diseases)	**V Gathiram** *MBChB MD(Natal) FCP(SA)*
Emeritus Professor	**Y K Seedat** *OMSS MD(NU Irel) HonPhD(MedSc)(UDW) HonFCM (SA) FRSSAF FRCP (London) FRCP(Irel) FACP FCP(SA) FACC FCCP FICA FICN FCPS (Pak) Fellow of University of Natal*
	E B Adams *BSc(SA) BSc(Oxon) MD(Witwatersrand) Hon MD(Natal) FRCP(London)*
	D J Pudifin *MBChB(Cape Town) FRCP(London) FCP(SA)*
Associate Professors	**A E Simjee** *MBChB(Natal) FRCP(UK) MRCP(UK) MACG(USA)*
(Head : Geriatric Medicine)	**B Cassim** *MBChB(Natal) FCP(SA) MD(Natal)*
Senior Lecturers	**A G H Assounga** *MD(Congo) CES(France) MScMaths PhD(USA)*
	M C Rajput *MBChB(Natal) FCP(SA) MRCP(UK)*
	Y P Moodley *MBChB(Natal) FCP(SA)*
	F J Pirie *MBChB(Cape Town) FCP(SA)*
Lecturers	**C G Jack** *MBChB(Natal) FCP(SA)*
	C Jozi *MBChB(Natal) FCP(SA)*
	M C Kamdar *MBBS(Nagpur) FCP(SA)*
	N Madala *MBChB(Natal) FCP(SA)*
	M Y S Moosa *MBChB(Natal) FCP (SA)*
	K T Naidoo *MBChB(Natal) FCP(SA)*
	K Nyamande *MBChB(Zim) FCP(SA)*
	G R M Dala *MBChB(Ahmadu Bello) FCP(SA)*
	T Han *MBBS(Yangon) FCP(SA)*
	N Patel *MBChB(Natal) FCP(SA)*
	M Ntambazi *MBChB(Uganda) FCP(SA)*
	R Bodasing *MBChB FCP (SA)*
	A B Maharaj *MB Bs (Banaras) FCP (SA)*
Honorary Associate Professor	**M A K Omar** *MBChB(Natal) FCP(SA) MRCP(UK) MD(Natal) FRCP(London)*
Honorary Research Associate Professor	**F G H Mayet** *BA(Rand) MBChB MD(Natal)*
Honorary Lecturer	**F J Muller** *MBChB(Cape Town) FRCP(Canada)*
	O Aboo *MBChB (Natal) FCP (SA)*
	E Ndabaneze *Doctor in Medicine/Surgery/Maternity Specialist Internal Medicine*

Specialist Gastroenterology (Belgium)
P Kocheleff *Doctor in Medicine Specialist Internal Medicine Specialist Cardiology (Brussels)*
A J Michowicz *Specialist Internal Medicine Diploma in Social Medicine (Poland)*
C A Pascu Cruceru *Doctor in Medicine (Bucharest)*
T Aung *MBBS (Rangon)*

Sub-Department of Cardiology

Professor *	**D P Naidoo** *MBChB(Natal) FCP(SA) MRCP(UK) DCH(SA) FRCP(London) MD(Natal)*
Emeritus Professor	**A S Mitha** *MCRP (UK) MRCP (Ireland) FCP (SA) FRCP(London) FRCP(Irel)*
Lecturers	**E Losman** *MBChB(Cape Town) FCP(Paed)(SA)*
	S Khan *MBChB(Natal) FCP(SA)*
	T M Mathivha *MBChB(Natal) FCP(SA)*
	A Z M S Haque *MBBS(Chittagong) DCH(Ireland) FCP(Paed)(SA)*

Sub-Department of Dermatology

Associate Professor *	**J Aboobaker** *MBChB (Natal) FFDerm(SA) FRCP (London)*
Lecturers	**C N Dlova** *MBChB (Natal) FFDerm (SA)*
	A Mosam *MBChB (Natal) FFDerm (SA)*
Honorary Lecturer	**P N Naidu** *MBChB (Natal) FFDerm (SA)*

Sub-Department of Neurology

Professors *	Vacant
	A I Bhigjee *MBChB(Natal) MMed(Neur)(Cape Town) FCP(SA) FRCP(UK) MD(Natal)*
Emeritus Professor	**P L A Bill** *MBBCh(Witwatersrand) FRCP(London) FCP(SA)*
Honorary Lecturer	**V Patel** *MBChB(Natal) FCP(SA) FCP(SA)Neurology MBC(UDW)*

MOLECULAR BIOLOGY RESEARCH FACILITY

Senior Lecturer *	**R Naidoo** *BSc(Hons)(Biochemistry)(UDW) MMedSc(Natal) PhD(Natal)*
Senior Lecturer	**P Kiepiela** *BSc(Agric) MSc PhD(Natal)*

NEUROSURGERY	**SCHOOL OF CLINICAL SCIENCES**
Professor	*Vacant*
Senior Lecturer	*Vacant*
Emeritus Professor	**J R van Dellen** *MBBCh(Witwatersrand) FRCS(Edinburgh) PhD(Med)(Witwatersrand)*
Lecturer §	**N Dasi** *MBChB(Witwatersrand) FCS(SA)*

OBSTETRICS AND GYNAECOLOGY	**SCHOOL OF CLINICAL SCIENCES**
Professors *	**J Moodley** *MD(Natal) FCOG(SA) FRCOG Fellow of the University of Natal*
Emeritus Professor	**S M Ross** *MBBS(London) DTM&H(Liverpool) FRCOG*
Honorary Professor	**R W Green-Thompson** *MBChB(Natal) DipCOG(SA) FCOG(SA) FRCOG*
Senior Lecturers	**J S Bagratee** *MBChB(Natal) FCOG(SA) MRCOG*
	S B Pitsoe *MBChB(Natal) FCOG(SA)*
Lecturers	**L Govender** *MBChB(Natal) FCOG(SA)*
	H C Maise *MBChB(Natal) FCOG(SA)*
	S R Ramphal *MBChB(Natal) FCOG(SA)*
	M Moodley *MBChB(Natal) FCOG (SA)*

Honorary Associate Professor	**K Sullivan** *BScPureMathematics(Westminister) MScNumericalAnalysis(Brunnel) FSS PhD(London)*

OPHTHALMOLOGY
SCHOOL OF CLINICAL SCIENCES

Professor *	**A L Peters** *MBChB(Cape Town) MMed(Ophth)(Natal) FC(Ophth)(SA)*
Lecturer/Deputy Head	**Y Jhavary** *LRCP LRCSI DO(London) FRCS(Ireland)*
Lecturer	**L Visser** *MBChB(Pret) MMed(Ophth)(Natal) FCS(Ophth)(SA)*
Honorary Lecturers	**P Blignaut** *MBChB(Cape Town) DA FCS(Ophth)(SA)*
	C D Cook *MBChB(Cape Town) FCS(Ophth)(SA) FRCOphth(UK)*
	F C Qoboshiyane *MBChB (Natal) DTM&H(Wits) FCSOphth(SA)*

OPTICS AND IMAGING CENTRE

Senior Lecturer (Manager)	**T Naicker** *BSc(UDW) TechRMS(UK) MMedSci(Natal) PhD (Natal)*

ORTHOPAEDIC SURGERY
SCHOOL OF CLINICAL SCIENCES

Professor *	**S Govender** *MBBS(Bombay) FRCS(Glasgow)*
Senior Lecturers	**I E Goga** *LLM RCS LLM RCP(Dublin) FRCS(Edinburgh) FCS(Orth)(SA)*
	M N Rasool *BSc(UDW) MBChB(Natal) FCS(Orth)(SA)*
Lecturers	**P R Chotai** *MBChB(Cape Town) FRCS(Glasgow) FRCS(Orth)(Glasgow)*
	M E Senoge *MBChB(Natal) FCS(Orth)(SA)*
	K P S Kumar *MBBS(Kerala) FCS(Orth)(SA)*
	D K Kodi *MBChB(Natal) FCS(Orth)(SA)*
	S Brijlall *MBBS(Manipal) FCS(Orth)(SA)*
Honorary Lecturer	**I D Lioma** *MBChB(Natal) FCS(Orth)(SA)*

OTORHINOLARYNGOLOGY SCHOOL OF CLINICAL SCIENCES

Professor *	**B Singh** *BSc(UDW) MBChB MMed(Otol)(Natal)*
Senior Lecturer	*Vacant*
Lecturer	**A Padayachee** *MBChB(Natal) MMed(Otol)(Natal)*

PAEDIATRIC SURGERY
SCHOOL OF CLINICAL SCIENCES

Professor *	**G P Hadley** *MBBCh(St Andrews) FRCS(Edinburgh)*
Emeritus Professor	**R E Mickel** *MBBCh(Witwatersrand) FRCS(Edinburgh)*
Senior Lecturer	**R Wiersma** *BSc(Zoology)(Natal) MBChB(Rhodesia) FRCS(Glasgow) MMedSc(Natal)*
Lecturer	**A S Shaik** *MBChB(Natal) FCS(SA)*

PAEDIATRICS AND CHILD HEALTH SCHOOL OF CLINICAL SCIENCES

Professor *	**M Adhikari** *MBChB(Cape Town) FCP(Paed)(SA) MD(Natal) Fellow of the University of Natal*
(Stella & Paul Lowenstein Professor of Maternal and Child Health)	**G C Solarsh** *MBBCh(Witwatersrand) DCH FCP(Paed)(SA)*
Emeritus Professor	**W E K Loening** *MBChB(Cape Town) FCP(Paed)(SA)*
	H M Coovadia *MBBS(Bombay) FCP(Paed)(SA) MSc(Imm)(Birm) MD(Natal) Fellow of University of Natal DSc(Hon)*
Associate Professor	**A Coutsoudis** *BSc(Hons); HED; PhD*
	R Bhimma *MBChB (Natal) DCH FCP(Paed)(SA) M Med*
	R A Bobat *MBChB(Natal) FCP(Paed)(SA) MD(Natal)*
	P Jeena *MBChB(Natal) FCP(Paed)(SA)*
Senior Lecturers	**H R Mackanjee** *MBChB(Natal) FCP(Natal) FRCP(Paed)(Canada)*
	R Thejpal *MBChB(Natal) FCP(Paed)(SA)*

Lecturers	**S Thula** *MBChB(Medunsa) FCP(Paed)(SA)*
	L Mubaiwa *MBChB(Zim) FCP(Paed)(SA) MA Child Development (Tufts, USA)*
	M K Chhagan *MBChB(Natal) DCH(SA)FCP(Paed)(SA)*
	A Moodley *MBChB(Cape Town) FCP(Paed)(SA)*
	N C Rollins *MBBCh BAO FRCPCh(UK) MD*
	K Chinniah *MBChB(Natal) FCP(Paeds)(SA)*
	V Govender *MBChB (Natal) DCH (SA) FCP (Paed) SA*
	E Thompson *MBChB (Natal) DCH (SA) FCP (Paed) SA*
Honorary Senior Lecturer	**W S Winship** *MBChB M Med(Paeds)*
Honorary Lecturer	**J C Kelly** *MBChB(Cape Town) DCH FCP(Paed)(SA)*

PATHOLOGY

SCHOOL OF PATHOLOGY & LABORATORY MEDICINE

Professor	Vacant
Associate Professors §	**D Govender** *MBChB(Natal) FFPath(SA) FRCPath(London) MMed(Natal)*
	V Chrystal *MBBCh(Witwatersrand) BA(Unisa) FFPath(SA) FRCPath(London)*
Senior Lecturer	**P K Ramdial** *MBChB(Natal) FFPath(SA) MMed (Natal) AdvDipAdEd(Natal)*
Lecturers	*Vacant*
Honorary Lecturer	**S V Pillay** *MBChB(Natal) FFPath(SA) MRCPath(London)*
	R M Sabaratnam *MBBS(Manipal) FCPath(SA)*

PHYSIOLOGY

SCHOOL OF MEDICAL SCIENCES

Professor § #	**M Mars** *MBChB (Cape Town) MD (Natal)*
Emeritus Professor/ Honorary Research Associate	**M F Dutton** *BSc(Tech)ARCTS PhD(Salford) DSc(Natal)*

Physiology

Senior Lecturers
S G Naidu *MSc PhD(Witwatersrand)*
S B Higgins-Opitz *BSc(Hons)(Cape Town) PhD(Natal)*
E M Futre *BA(Hons) STD(Stell) MScMed(Cape Town) PhD (Pretoria)*

Lecturers
M A Tufts *BSc(Hons) MSc(Stell)*

Biochemistry

Associate Professor
A A Chuturgoon *BSc(Hons) MSc(Natal)*

Senior Lecturer
N Gqaleni *BSc(Hons) MSc(Natal) PhD(Strathclyde)*

Lecturer
R S Myburg *BSc(Hons) MMedSc(Natal)*

Histology

Lecturers
A Marszalek *MBBS(Poland)*
S Bux *BSc(UDW) TechRMS(Royal MicroSoc) MMedSc(Natal)*

PSYCHIATRY
SCHOOL OF CLINICAL SCIENCES

Professor *
D L Mkize *MBChB MMed(Psych)(Natal) MFGP DCH DForMed(SA)*

Emeritus Professor
W H Wessels *MBChB(Pret) DPM(Witwatersrand) DM(UOVS)*

Senior Lecturers
J A Dunn *MSc MBBCh MMed(Path) (Witwatersrand) MMed(Psych)(Natal) MIBiol(London) FFPsych(SA)*
A E Gangat *LM LRCP LRCS (Ireland) DPM (Dublin) M Med (Psych)(Natal)*

Lecturers
O F I Habib *MBChB MMed(Psych)(Natal)*
F J Lichtigfeld *BSc(Med) MBBCh(Witwatersrand) FFPsych(SA)*
N V Raymond *MBChB(Zim) M Med(Psych)(Natal)*
S Saloojee *MBChB(Natal) FCPsych(SA)*
E B Karim *MBChB(Natal) FCPsych(SA)*
Z Kader *MBChB(Natal) FCPsych(SA)*
K Jhazbhay *MBChB(Natal) FCPsych(SA)*
P Miseer *MBChB(Natal) FCPsych(SA)*
S Ramlall *MBChB (Natal) FFPsych(SA)*
S Paruk *MBChB FCRad (D) (SA*

	H V King *MBChB (Natal FCPsych (SA)*
Honorary Associate Professors	**A J Lasich** *MBBCh DPM (Witwatersrand) FFPsych (SA)*
	M G Nair *MBChB MMed(Psych)(Natal) FFPsych(SA) MD(Natal)*
Honorary Senior Lecturer	**F A Randeree** *MBChB(Natal) MRCPsych*
Honorary Lecturers	**I Moola** *MBChB(Natal) FFPsych(SA) FRCP(C) DipChildPsych(Toronto)*
	M J Ndlovu *MBChB(Natal) Med(Psych)(SA)*

RADIOLOGY — **SCHOOL OF CLINICAL SCIENCES**

Professor *	**P D Corr** *MBChB(Zim) LRCP(Edinburgh) LRCS(Glasgow) FFRad(D)(SA) MMed(RadD) FRCR(UK) FHKAM(Hong Kong)*
Senior Lecturer	**J Maharajh** *MBChB MMed(Natal) FFRad(D)(SA)*
Lecturers	**D L Rubin** *MBBCh(Witwatersrand) DMRD RCP(London) RCS(England)*
	I J Movson *MBChB(Pret) DMRD(London)*
	M A Ndlovu *MBChB(Natal) FFRad(D)(SA)*
	F Vawda *MBChB(Natal) FCRad(D)(SA)*
	A Y Moosa *MBChB(Natal) FCRad(D)(SA)*
	F Lockhat *MBChB FCRad (D) (SA)*
	B D Ramsing *MBChB FCRad (D) (SA)*

RADIOTHERAPY AND ONCOLOGY — **SCHOOL OF CLINICAL SCIENCES**

Professor *	**J P Jordaan** *MBChB MMed(Stell) FFRT(SA)*
Lecturer	**W M Szpak** *Dip in Med (Med Acad, Warsaw) FCRad (SA)(ONC)*

Division of Surgery
GENERAL SURGERY
SCHOOL OF CLINICAL SCIENCES

Professors * &	**J V Robbs** *MBChB ChM(Cape Town) FRCS(Edinburgh) FRCPS(Glas) Fellow of the University of Natal*
	A A Haffejee *MBChB(Natal) FRCS(Edinburgh) Fellow of the University of Natal*
	S R Thomson *MBChB ChM(Aberdeen) FRCS(England)*
	T E Madiba *MBChB(Natal) MMed(Chir)(Natal) FCS(SA)*
Emeritus Professor	**L W Baker** *MBBCh(Witwatersrand) MSc(McGill) FRCS(Edinburgh) FRCS(England) Fellow of the University of Natal*
Associate Professors	**D J J Muckart** *MBChB(Dundee) FRCS(Glasgow) MMedSci(Natal)*
	B Singh *MBChB(Natal) FCS(SA)*
Senior Lecturer	**J Moodley** *MBChB(Natal) FCS(SA) MMedSci(Natal)*
Lecturers	**L Allopi** *MBChB (Natal) FFCS (SA)*
	F Anderson *MBChB(Natal) FCS(SA)*
	S H Bhaila *MBChB(Natal) FRCS (Glasgow)*
	D L Clarke *MBBCh(Witwatersrand) FCS(SA)*
	Y Desai *MBBS (Bombay) FRCS(Edinburgh) MMedSci (Natal)*
	M S Moodley *MBChB Natal) FCS(SA)*
	S Moodley *MBChB (Natal) FCS (SA)*
	T E Mulaudzi *MBChB (Natal) FCS (SA)*
	M L Naidoo *MBChB(Natal) FCS(SA)*
	N M Naidoo *MBChB(Natal) FCS(SA)*
	B Pillay *MBBCh(Wits) FCS(SA)*
	W R Pillay *MBChB(Natal) FCS(SA)*
	E Royeppen *MBChB(Natal) FCS(SA)*
	M H Sheik-Gafoor *MBChB(Natal) FCS (SA)*
	V M Wilson *MBChB(Natal) FCS(SA)*

PLASTIC AND RECONSTRUCTIVE SURGERY	**SCHOOL OF CLINICAL SCIENCES**
Professor *	**A Madaree** *MBChB MMed(Natal) FCS(SA) FRCS(Eng)*
Lecturer/Deputy Head	**M Daya** *MBChB(Natal) FCS(SA)*
UROLOGY	**SCHOOL OF CLINICAL SCIENCES**
Professor *	**Z B Bereczky** *MBChB MMed (Surg) MMed(Urol) FC Urol (SA)*
Emeritus Professor	**W W Marszalek** *MBChB(Wroclaw) MD(Poland)*
Senior Lecturer/Deputy Head	**T Fourie** *MBChB MMed(Urol)(Stell)*
Honorary Lecturers	**F Nel** *MBChB MMed(Urol)(Pret) FACS(USA)*
	H Patel *MBBCh (Wits) FC (Urol)(SA)*
	E H Abdel Goad *MBChB FC(Urol)(SA)*
	A Krysiuk *MD PhD(Poland)*
VIROLOGY	**SCHOOL OF PATHOLOGY & LABORATORY MEDICINE**
Professor * #	**A N Smith** *MBBCh(Witwatersrand) MMed(MicroBiol) MSc(Surrey) DTM&H DOH DPH(Witwatersrand)*
Senior Lecturer/Deputy Head	**D F York** *BSc BSc(Hons) MSc(Biochem) PhD(Natal)*

* Denotes Head of Department § Denotes Acting Head of Department
& Denotes Head of School # Denotes Acting Head of School

INFORMATION FOR STUDENTS

1. The Degree of MBChB

The University of Natal at present offers a 5-year course leading to the registerable basic medical qualification, the degrees of MBChB (Bachelor of Medicine and Surgery). The two degrees are taken concurrently. Subject to the Rules, an outline of the present course is as follows:

The course is composed of 30 themes, six in each of the 5 years. The duration of each theme is 6 weeks in years 1-4 and 7 weeks in year 5. Theme 0 in Year 1 is an orientation theme and as such, is of 3 weeks duration. In Year 1, specific periods of Enrichment (periods for special interests or needs) are built into each theme. In each of Years 2, 3 and 4 students will do a 4-week Elective Theme (a self-selected period of work or a project).

The undergraduate medical training programme is integrated, student-centred, self-directed and problem-based. The curricular content presented is covered as themes, generally with one theme per module. As the programme is designed in a spiral manner, content covered early in the course will be revisited, in various ways, in later years. Students will be exposed to clinical situations early in the programme and thus begin clinical skills training in Year One.

As curriculum development is an ongoing process, theme details and assessment formats or processes are regularly evaluated and consequently may be reviewed and amended from time to time.

The course is planned to ensure the highest possible standard of education and training by stimulating and encouraging understanding rather than rote learning. All medical undergraduate education will be administered and directed by the School of Undergraduate Medical Education (SUME) in the Faculty of Health Sciences and follows the requirements as laid down by the Health Professions Council of South Africa for the degrees of MBChB. After meeting the requirements as prescribed by the Health Professions Council of South Africa, graduates of the University of Natal will be entitled to registration as medical practitioners in terms of the Medical, Dental and Supplementary Health Service Professions Act 1974 (Act 56 of 1974).

2. Entrance Qualifications

Subject to the detailed provisions of the Rules, first year is the **single point of entry** to the MBChB programme.

Entry is possible:

For candidates who have matriculated or obtained matriculation exemption at a sufficiently high standard as defined by the Rules or for students who have shown success or potential for success at tertiary education in **any field**. Importantly, in addition, students are evaluated by additional factors as prescribed by the Senate and Council and which are constantly under review.

3. Selection of Students

There are many more qualified applicants than there are places available. Failure to comply with **any** of the following requirements will result in applications not being considered.

(i) **Instruction:** Detailed instructions and application forms are sent separately on request to applicants. The instructions and details must be honestly, promptly and precisely followed.

(ii) **Closing dates for application for Admission:** 30 June of the year before that for which admission is sought.

(iii) **Certificates:** Certified copies of the original matriculation or degree certificates and any transcripts of university records should be submitted with applications. Students about to write matriculation or degree examinations should not wait for results before applying.

Entrance Requirements

A. Introduction

1. The Nelson R Mandela School of Medicine is guided by the University of Natal's Mission Statement and its General Admissions policy, and aims to redress past inequalities in the production of doctors. The Faculty may set targets for different population groups as a measure designed to achieve the objectives of the University's said policy.
2. Students will be admitted to the First Year of study only and no credits will be transferred from any other post-secondary studies.
3. This policy is subject to any contractual agreements that the University has with other parties and to Government protocol.
4. The entrance policy and requirements are reviewed from time to time and are subject to change.

B. Matriculants

1. Only applicants who have obtained a full matriculation exemption or equivalent at first attempt will be considered.
2. Subject to A1 above, applicants are ranked for selection according to the average percentage mark of the six (6) highest scored matriculation subjects, after proportional adjustment for Higher and Standard Grades, plus bonus percentage points as per item B3, if applicable.
3. While there are no specific subject requirements for entry, additional graded bonus percentage points will be given for a maximum of 2 highest scored subjects from the following:

   Biology
   Chemistry
   Mathematics or Additional Mathematics
   Physiology
   Physical Science
   Physics

   The bonus percentage points will be added to the average percentage mark of the six (6) highest scored Matriculation subjects calculated as described in B2 above. Bonus percentage points will be allocated on a graded ranking system according to the matriculation marks adjusted for Higher and Standard Grades as set out below. These subjects need not be amongst the original six (6) highest scored subjects referred to in B2 above.

Bonus Percentage Points System

Matriculation Mark	HG	SG
90-100%	1	0.75
80-89%	0.8	0.60
70-79%	0.6	0.45
60-69%	0.4	0.30
50-59%	0.2	0.15

4. Every endeavour will be made to rank applicants with matriculation equivalent examinations within this system.
5. A post matriculation or equivalent applicant who has obtained matriculation or equivalent at the first attempt and has not undertaken any tertiary studies, will be considered on the

basis of matriculation or equivalent results. Such an application will be considered if made within two (2) years of completion of the matriculation or equivalent examination.

C. **APPLICANTS WITH POST-SECONDARY STUDIES**

1. Some places may be made available to applicants who have undertaken post-secondary studies.
2. This category of applicants includes medical students who are studying at other medical schools recognised by the HPCSA.
3. Subject to A1 above, selection of these applicants is based on the applicant's post-secondary academic record.
4. In order to be considered, these applicants will be required to submit full post-secondary academic records to the Faculty, and update these for the current study year as soon as possible after receipt of results.

4. Fees

(a) Minimum initial payment must be submitted on or before registration for each year of study.
(b) Final full payment must be made before 30 June*.

Note: Students who have not paid the required minimum initial payment of Academic and Residence Fees or produced evidence of receipt of a bursary/scholarship/loan will be excluded from attending course work at the University until satisfactory arrangements have been made with the Finance Division. Residence students will similarly be excluded from residence if accounts are not paid by the 30 June*. Students who are still in arrears at the end of the academic year will have their examination results, degrees or diplomas withheld.

* A date fixed by the University.

A schedule of applicable fees is supplied separately.

5. Bursaries, Scholarships and Loans

Apply for assistance and information to:
Financial Aid Officer, Faculty of Health Sciences, Private Bag 7, Congella, 4013 or personally at Mpala House, Glastonbury Place. **Closing date**: 30 June.

6. Prizes

(1) For final-year medical students

(i) School of Medicine Prize
(ii) Adcock Ingram Prize
(iii) Enid and Gordon Jacob Memorial Prize
(iv) Arthur Goldsmith Memorial Prize
(v) E B Adams Prize in Medicine
(vi) K M Seedat Prize in Medicine
(vii) Sammy Sacks Prize in Obstetrics and Gynaecology
(viii) Alan B Taylor Prize in Obstetrics and Gynaecology
(ix) Donald Luswazi Prize in Orthopaedics
(x) Orthopaedic Association Prize
(xi) Smith and Nephew Prize in Orthopaedics
(xii) A E Kolia Prize in Paediatrics
(xiii) Nestlé Prize in Paediatrics
(xiv) Professor Patrick Montrose Smythe Award for Excellence in Paediatrics and Child Health
(xv) R W S Cheetham Senior Memorial Prize in Psychiatry
(xvi) Society of Psychiatrists of South Africa Medal
(xvii) George and Margaret Chapman Memorial Prize in Surgery
(xviii) Department of Surgery Prize

(2) **For 5th year medical students**
- (i) Bayer Prize in Surgery
- (ii) Sanlam Prize
- (iii) RC Shepherd Memorial Prize in Psychiatry
- (iv) South African Society of Anaesthetists Medal

(3) **For 4th year medical students**
- (i) Drs NL Pillay, WF Mackintosh & Ptnrs Chemical Pathology Prize

(4) **For 3rd year medical students**
To be advised

(5) **For 2nd year medical students**
To be advised

(6) **For 1st year medical students**
To be advised

7. Teaching Centres

All education and training will take place primarily at the Nelson R. Mandela School of Medicine (Faculty of Health Sciences) campus of the University of Natal at 719 Umbilo Road and at various Hospitals, Clinics and General Practitioner consulting rooms in the city, and elsewhere, as determined by the School of Undergraduate Medical Education.

8. Residence

The University residences, situated on the main Durban campus, are approximately 3 kilometres from the Medical School. The St. Hillier residence is situated approximately half a kilometre from the Medical School. A municipal bus service provides easy access to both the City and the School.

The residence fee does not cover vacation periods. Students may be permitted to remain in residence during the short vacations at a set daily rate. Normally, the residences are closed during the long vacations, but in special cases, the Warden may give permission for a student to remain in residence at the daily rate.
Students who have to write supplementary examinations or do supplementary clinical blocks, have to make accommodation arrangements as such arrangements are not normally provided for.

9. Libraries

The main Medical Library is housed in the Health Sciences Faculty Building. Registered students of the University have access to the other sections of the Library in Pietermartizburg and in Durban, at the Howard College and Edgewood campuses.

10 Sessional Dates:

FACULTY OF HEALTH SCIENCES: SESSIONAL DATES: 2003

New Curriculum

1st Year	Registration	Monday	20 January (09h00)
	Opening Ceremony	Tuesday	21 January
	Course Starts	Tuesday	21 January
	1st Semester	Tuesday	21 January - 20 June (Friday)
	Easter Vacation	Saturday	12 April - 21 April (Monday)
	July Vacation	Monday	21 June - 13 July (Sunday)
	Second Semester	Monday	14 July - 22 November (Saturday)
2nd Year	Registration	Monday	13 January (09h00)
	Course Starts	Tuesday	14 January
	1st Semester	Tuesday	14 January - 20 June (Friday)
	Easter Vacation	Saturday	12 April - 21 April (Monday)
	July Vacation	Monday	21 June - 13 July (Sunday)
	Second Semester	Monday	14 July - 22 November (Saturday)
3rd Year	Registration	Tuesday	14 January (09h00)
	Course Starts	Wednesday	15 January
	1st Semester	Wednesday	15 January - 13 June (Friday)
	Easter Vacation	Saturday	12 April - 21 April (Monday)
	July Vacation	Thursday	19 June - 8 July (Tuesday)
	Second Semester	Wednesday	9 July - 28 November (Friday)

Old Curriculum

3rd Year	Registration	Friday	17 January (13h00)
	Course Starts	Monday	20 January
	1st Semester	Monday	20 January - 27 June (Friday)
	Easter Vacation	Saturday	12 April - 20 April (Sunday)
	July Vacation	Monday	28 June - 20 July (Sunday)
	Second Semester	Monday	21 July - 28 November (Friday)
4th Year	Registration	Friday	17 January (09h00)
	Course Starts	Monday	20 January
	1st Semester	Monday	20 January - 27 June (Friday)
	July Vacation	Saturday	28 June - 20 July (Sunday)
	Second Semester	Monday	21 July - 28 November (Friday)
	End of Blocks	Friday	10 October
5th Year	Registration	Thursday	16 January (09h00)
	Course Starts	Friday	17 January
	1st Semester	Friday	17 January - 27 June (Friday)
	July Vacation	Monday	28 June - 13 July (Sunday)
	Second Semester	Monday	14 July - 28 November (Friday)
	End of Blocks	Friday	03 October
6th Year	Registration	Wednesday	15 January (09h00)
	Course Starts	Thursday	16 January
	1st Semester	Thursday	16 January - 27 June (Friday)
	July Vacation	Monday	28 June - 20 July (Sunday)
	Second Semester	Monday	21 July - 28 November (Friday)
	End of Blocks	Friday	10 October

Medical School Opening Ceremony 1st Years	Tuesday	21 January
Graduation	Tuesday	9 December
Non-Teaching Time Student Forum:	Every Thursday 12h00 - 13h00	
Days of Condoned Absence		
Eid-ul-Adha	Thursday	13 February
Rosh Hashanna	Saturday / Sunday	27 - 28 September
Yom Kippur	Monday	6 October
Diwali	Saturday	25 October
Eid-ul-Fitr	Wednesday	26 November
Faculty Research Day	Wednesday	3 September
Clinical Conference	Wednesday	14 May
Student Cultural Day (from 12h00)	Friday	30 May
Annual General Meeting (from 12h00)	Thursday	5 June
Examinations and tests will not be held on days of condoned absence		
Public Holidays		
New Year's Day	Wednesday	1 January
Human Rights Day	Friday	21 March
Good Friday	Friday	18 April
Family Day	Monday	21 April
Freedom Day	Sunday	27 April
Public Holiday	Monday	28 April
Worker's Day	Thursday	1 May
Youth Day	Monday	16 June
National Women's Day	Saturday	9 August
Heritage Day	Wednesday	24 September
Day of Reconciliation	Tuesday	16 December
Christmas Day	Thursday	25 December
Day of Goodwill	Friday	26 December

10.1 Progress Examination

All medical students on the new curriculum write 3 Progress Examinations during the course of the year, i.e.:

1st Progress Test	Saturday	10th May 2003
2nd Progress Test	Saturday	23rd August 2003
3rd Progress Test	Saturday	22nd November 2003

10.2 Objective Structural Clinical Examination (OSCE)

All medical students in the new curriculum write an OSCE towards the end of each year.

1st Year	Monday 17th November – Friday 21st November 2003
2nd Year	Tuesday 18 November – Wednesday 19 November 2003
3rd Year	Thursday 27th November – Friday 28th November 2003

11. Student Societies

Students in the Faculty of Health Sciences are eligible for membership of the Medical Students' Representative Council and are entitled to vote in elections of this body, which is recognised as the official student organisation of the Faculty of Health Sciences. Medical students are also entitled to join the Sports Union and subsidiary clubs and to vote in the elections of relevant University committees.

12. Rural Attachments

During the duration of the MBChB course, all students will be required to spend training time at rural hospitals or clinics for specified periods as determined by the School of Undergraduate Medical Education.

13. Vaccination: Hepatitis B

All students registering for the degree should be successfully vaccinated against Hepatitis B or will be as soon as possible thereafter.

14. Health Professions Council of South Africa

All medical students are required to register with the Medical and Dental Professions Board (MDPB) of the Health Professions Council of South Africa (HPCSA) upon admission to the MBChB degree course and are bound by the regulations of Health Professions Council of South Africa. The fee charged is R50.00.

15. Social Considerations

No smoking is allowed within any of the University buildings.

16. Common Rules

Students shall acquaint themselves and comply with the University Code of Conduct, the Rules relating to Examinations, the Common Rules for degrees, diplomas and certificates, the Rules of the Faculty concerned with the degree, diploma or certificate for which they are registered and such rules as are prescribed and published in writing from time to time by the University Libraries, Finance Division, Information Technology Division, Residences, Students Representative Councils and the Joint Sports Union Council.

RULES FOR DEGREES AND DIPLOMAS

DEGREES AND DIPLOMAS OFFERED

M1 (a) The following degrees are conferred and diplomas awarded:

Bachelor of Medicine and Bachelor of Surgery	MBChB
Bachelor of Medical Science	BMedSc
Bachelor of Medical Science Hons	BMedSc (Hons)
Master of Medicine	MMed
Master of Medical Science	MMedSc
Master of Medical Science (Medical Microbiology)	MMedSc (MM)
Master of Medical Science (Environmental Health)	MMedSc (EH)
Master of Medical Science (Occupational Hygiene)	MMedSc (Ohyg)
Master of Medical Science (Occupational and Environmental Medicine)	MMedSc (OEM)
Master of Medical Science (Ergonomics)	MMedSci (Ergo)
Master of Medical Science (Medical Informatics)	MMSCMI
Master of Medical Science (Telemedicine)	MMSCTM
Master of Medical Science (Sports Medicine)	MMedSci (Sports Med)
Master of Clinical Pharmacology	MClinPharm
Master of Family Medicine	MFamMed
Master of Public Health - Esati	MPH Esati
Doctor of Medicine	MD
Doctor of Philosophy	PhD
Postgraduate Diploma in Sports Medicine	PGDipSpMed
Postgraduate Diploma in Medical Informatics	PGDipMedInfo
Postgraduate Diploma in Occupational Health	PGDipOccHealth
Postgraduate Diploma in Public Health	PGDipPubHealth
Postgraduate Diploma in Telemedicine	PGDipTelemed

(b) The common rules of the University shall, where applicable, also apply to degrees and diplomas offered in this Faculty.

(c) Except with the permission of Senate, all of the following rules for degrees and diplomas offered in the Faculty shall apply.

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY
(NEW CURRICULUM. Started January 2001)

The different disciplines, which form the basis for the medical curriculum, are integrated within themes in 30 modules covering 5 years of study. The methodology of the programme is student-centred, self-directed and occurs primarily within the format of problem-based learning within small groups.

Students are introduced to the programme and the educational processes followed therein during a 3 week Orientation module, Theme 0. Personal interests and needs of students are catered for by means of Enrichment periods in Year 1 and Elective Modules in Years 2 to 4.

Admission

M2(n) No candidate shall be permitted to register for the degrees unless they have previously obtained a full matriculation exemption or equivalent at first attempt.

Curriculum

M3(n)(a): Modules : Promotion criteria for the new curriculum as outlined in Rule M5(n)

OUTLINE OF MODULES FOR THE MBCHB FIRST, SECOND AND THIRD YEARS OF STUDY FOR THE ACADEMIC YEAR 2003

Year of study	Module Number	Module description	Module code	Credits
1	1.1	Progress Exam 1	MUM1PE1	32
	1.2	Progress Exam 2	MUM1PEY	32
	1.3	Progress Exam 3	MUM1PE2	32
	1.4	OSCE 1	MUM1OSY	32
	1.5	Ambulance Course	MUM1TEY	16
Full Credits for Study Year 1				**144**
2	2.1	Progress Exam 1	MUM2PE1	32
	2.2	Progress Exam 2	MUM2PEY	32
	2.3	Progress Exam 3	MUM2PE2	32
	2.4	OSCE 2	MUM2OSY	48
	2.5	Elective 1	MUM2ELY	16
Full Credits for Study Year 2				**160**
3	3.1	Progress Exam 1	MUM3PE1	32
	3.2	Progress Exam 2	MUM3PEY	32
	3.3	Progress Exam 3	MUM3PE2	32
	3.4	OSCE 3	MUM3OSY	48
	3.5	Elective 2	MUM3ELY	16
Full Credits for Study Year 3				**160**
Modules for 4th and 5th years of study will be brought into effect in 2004 and 2005 respectively				

(b) The themes of years 1 - 5 are as follows

	THEME	*THEME*	*THEME*	*THEME*	*THEME*	*THEME*
YR 1	Diabetes Mellitus 1.1	Nutrition 1.2	Growth & Development 1.3	Infection / Inflammation 1.4	Reproductive Health I 1.5	Trauma & Emergency Care 1.6
YR 2	Cardio-respiratory Disorders 2.1	Uro-genital Disorders 2.2	Digestion / Absorption 2.3	"People & Bugs" 2.4	Central Function 2.5	Body in Motion I 2.6
YR 3	Body in Motion II 3.1	Hormonal Orchestration 3.2	Cell Dysfunction 3.3	Fever 3.4	Abdominal Complaints 3.5	Reproductive Health II 3.6
YR 4	Sight & Sound 4.1	Higher Mental Function 4.2	Jaundice 4.3	Lifestyles 4.4	Man/ Environment/ Health 4.5	Practice Management/ Therapeutics/ Other Topics 4.6
YR 5	Students will rotate through the six, 7-week clinical modules covering Family Medicine, Medicine, Obstetrics and Gynaecology, Paediatrics, Psychiatry and Surgery.					

(c) A candidate shall subscribe to the following declaration prior to the commencement of the MBChB degrees:

AS A STUDENT of Medicine at the University of Natal

I do solemnly declare that I will keep silent about those things that I have seen or heard whilst dealing with the sick and that in my relations with patients and colleagues I will conduct myself according to the ethics of the medical profession. I will not knowingly or intentionally do anything to any person which may harm them for any consideration whatsoever and I will exercise my profession to the best of my knowledge and ability for the good of all persons whose health may be entrusted to me.

I do hereby acknowledge and accept that by virtue of the practice, and therefore teaching, in the profession of medicine, various aspects of my medical studies and training in the Bachelor of Medicine and Bachelor of Surgery degree may be scheduled to take place on any day of the week.

I hereby <u>accept</u> that all teaching programmes and activities scheduled by the Faculty of medicine are essential to my medical studies and training.

I further acknowledge that the scheduling of activities on Saturdays/Sundays/Public and Religious Holidays is due to timetable constraints and especially due to essential clinical teaching of a broad nature.

(d) Candidates shall not be promoted to the subsequent year unless they have met all the promotion criteria of the Faculty in the examinations and/or clinical assessments as stipulated in Act No 56 of 1974 (Government Gazette No R652 of 5 May 1995).

Examinations
M4 *(n)*

Students are promoted on the results of their Summative Assessments. These consist primarily of:
(i) Objective Structured Clinical Examinations (OSCE) and (ii) Progress Examinations (PE).

OSCE: This examination assesses the candidate's competency in clinical skills as well as his/her ability to carry out procedures.

PE: There are 3 PEs in any year of the programme. The philosophy of the PE is to assess the candidate's progress towards attaining the knowledge expected of a graduate of this Medical School. PE aims at acknowledging and rewarding the candidate's additional effort and knowledge gained beyond what he/she has been taught. Each is therefore composed of a range of questions that samples the full domain of knowledge that a medical graduate should master. Each PE in years 1-3 will therefore consist of questions drawn from themes or parts of themes that have been covered in the syllabus at that level in the programme (i.e. material already covered - MAC) and others drawn from themes or parts thereof that have not yet been covered in the syllabus at that stage (material not already covered - MNAC).

There is differential weighting for MAC and MNAC. Candidates in years 1-3 will write the same PE. However, their assessments will differ according to their levels in the programme. In addition, the domain of MAC in the third PE in any level of the programme will include those of the 1st and the 2nd PEs at that level, as well as those covered at lower level(s).

Definitions
M4*(n)*

The timing and the format of the examination shall be determined by the Board of the Faculty on the recommendations of the Head of the School of Undergraduate Education having due regard to the requirements laid down by the Health Professions Council of South Africa.

(a) **Summative Assessment:** Assessments that determine whether a candidate may advance to the next year of the programme. It is used to certify mastery of a specific set of objectives. In general, such an assessment shall be:

(i) Progress Examinations, undertaken three times a year in all five years of study. Progress Examinations are examinations written by candidates at all levels of the programme, which sample the full domain of knowledge that a medical graduate should master. The Progress Examination (PE) mark is a composite score derived from the material already covered (MAC) and material not already covered (MNAC). The entire examination will have negative marking.

Years 1, 2, and 3:

1 **MAC 0-50**: The MAC will be expressed as a percentage.

1.1 **MAC 0**-50: If the mark of the MAC is 0 to 50% for the MAC, then this mark is carried over unchanged to the PE mark.

1.2 A candidate whose mark for the MAC exceeds 50% will receive the maximum of 50 against this part of the mark and the remainder will be dealt with as in 2.

2 **MAC 51-70**: The remaining 50% for the MAC (cf 1.2. above) is converted to a mark out of 20. Thus, a candidate who obtains 73% for the MAC, will have 50 carried over to the PE mark and the remaining 23% converted by applying to it a constant factor (20/50) [i.e. 20/50 x 23 = 9.2]. The mark thus obtained is then added to the original 50 already obtained to give a MAC mark for the PE of 59.2.

3 **MNAC 71-100**: To derive the MNAC mark, the three highest raw scores of MNAC for students in that year of study, will be averaged to obtain the highest reference raw score, which when converted will be equivalent to 30. The highest converted mark for MNAC will be 30. The lowest will be zero. A negative score of the MNAC will be converted to zero. Thus, if the three highest raw MNAC scores are 103, 97 and 94, then the average of the three scores [(103+97+94)/ 3= 98], will constitute the highest reference mark, which when converted, is equivalent to 30. The 3 highest marks will be assigned a mark of 30 each. The conversion factor that will be applied to the individual candidate's raw MNAC score will be 28.5/98. A candidate who has an MNAC score of Z will get a converted MNAC mark of (Z x 30/98). This converted MNAC mark will then be added to the MAC mark to give the candidate's total Progress Examination mark.

(ii) An Objective Structured Clinical Examination (OSCE) (in years 1-3) - a multi-station examination assessing different aspects of clinical medicine, clinical skills and procedures, history-taking and communication, laboratory investigations and practical issue.

(iii) The satisfactory completion of the Elective modules.

(iv) Clinical Module examinations in each of the 6 clinical disciplines in Year 5.

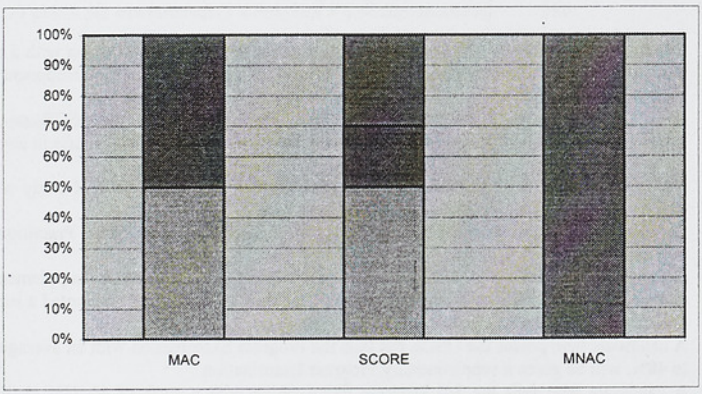
The satisfactory performance and completion of elective modules and any other additional modules within years 1-3 will be monitored and addressed by the School of Undergraduate Education.

(b) Formative Assessment: These are aimed at providing feedback to the candidate to enable him/her to monitor his/her progress. In Years 1-3 such assessment shall include:

(i) end of theme assessments; and
(ii) facilitator appraisal of student progress.

It is in the interests of a candidate that he/she undertakes all 6 End-of-Theme assessments

PROGRESS EXAMINATION SCALING



MAC = MATERIAL ALREADY COVERED
SCORE= NEW DERIVED PROGRESS EXAMINATION COMPOSITE MARK
MNAC = MATERIAL NOT ALREADY COVERED

The Progress Examination (PE) mark is a composite score derived from the material already covered (MAC) and the material not already covered (MNAC). The MAC constitutes a total of 70% (50% +20%) and the MNAC constitutes 30% of the PE mark.

Promotion
M5*(n)*

The pass mark for an OSCE or Progress Examination is 50%.

(a) The OSCE and the Progress Examinations will be considered separately

(b) Candidates in year 1 to 4 of the programme shall not be promoted to the next year of study unless they fulfil all of the following criteria:
  (i) obtain an average of 50% for the 3 Progress Examinations for that year of study,
  (iii) pass the OSCE,
  (iii) pass the third Progress Examination.

(c) A candidate in year 1 of the programme who fails the Basic Emergency Care Practitioners' module may be allowed to proceed to the second year of study and to write it at the end of the second year of the programme. Should the candidate fail this module again at the end of year 2, the student will have to repeat the second year of the programme.

(d) A candidate in year 5 of the programme shall be required to pass the Progress Examination, as in (b)(i) above, and each of the 6 discipline-based clinical assessments to qualify for the Degree

(e) A candidate who passes the OSCE but fails the Progress Examination and has to repeat the year is required to obtain, during the repeat year, an average mark of not less than 50% in the components of the OSCE up to the last Progress Examination

(f) A candidate who passes the Progress Examination but fails the OSCE and has to repeat the year is required to obtain a mark of 50% in any 4 of the 6 End-of-Theme tests.

(g) A candidate in Year 5 of study who fails to obtain credit for any Clinical Module shall be required to repeat the relevant Clinical Module.

(h) A candidate who has written one or more supplementary examinations, shall fail the year if (i) the supplementary OSCE is failed or (ii) both the third Progress Examination and the supplementary Progress Examination are failed or (iii) the average mark of the three highest scored (of the four) Progress Examinations, including the supplementary PE, is less than 50%.

(i) A candidate who has not been promoted will repeat the year by attending all the components of the summative assessments for that year of study.

Supplementary examination
M6(n)

(a) Candidates who have failed the Progress Examination or OSCE examination with a mark of less than 40 shall not be permitted to write a supplementary examination of the component failed.

(b) Years 1 to 4
  (i) Supplementary Examinations in the Progress Examinations, the OSCE, or both will be granted to qualifying candidates who fail to meet the promotion criteria in any of one year of study,
  (ii) Unsatisfactory completion of the elective block in any one year of study will require a repeat of that elective in December/January.

(c) Supplementary examinations will be granted for the Basic Emergency Care Practitioners' Course in Year 1 or 2.

(d) A candidate who fails the OSCE with a mark of 40-48% will be granted a supplementary OSCE. A candidate who obtains a mark less than 40% for the OSCE will not be granted a supplementary OSCE and will repeat the year.

(e) A candidate who passes the OSCE but fails the Progress Examination with an average mark of 40 to 48%, will be given a supplementary Progress Examination.

(f) A candidate who fails the 3rd Progress Examination with a mark of 40-48% shall be given a supplementary Progress Examination.

(g) Year 5
  (i) A supplementary Progress Examination may be granted should a candidate fail the PE.

(ii) A candidate who fails discipline-based clinical assessment(s) shall repeat the clinical module(s) failed.

Exclusions
M7(n)

(a) A candidate in Year 1 to 4 who fails a particular year of study for the second time shall be refused readmission except on the instruction of Senate.
(b) Candidates who, on health grounds or grounds of substance abuse, are deemed impaired and unable to continue their studies after due consideration and assessment by an *ad hoc* committee of the Board, shall have their registration suspended or be refused re-admission

This rule M7 (new) will apply for the current year 1 candidates and subsequent cohorts only and not for those in year 2 in 2002.

Award of Degree Cum Laude
M8*(n)*

The degrees of Bachelor of Medicine and Bachelor of Surgery will be awarded *cum laude* if a candidate obtains 240 points provided a minimum of 180 points is obtained in year 5 and the candidate has not failed any examination for the programme. The degree of Bachelor of Medicine and Bachelor of Surgery will be awarded *summa cum laude* if a candidate obtains 300 points, provided that the candidate accumulated a minimum of 64 points in years 1, 2 and 3, and a minimum of 236 points in years 4 and 5 allocated according to the formula shown below and has not failed any examination for the programme.

The Senate, on recommendation of the Board, may award the degree *cum laude* or *summa cum laude* to candidates who have not satisfied these conditions.
The points apply to a mark of 75-80%. A candidate who obtains 70-74% shall earn 2/3 of the points as indicated and a candidate whose mark exceeds 80% shall earn 4/3 of the points indicated.

1st Year: 4 points for Basic Emergency Care Practitioners' module		4
2nd Year: 4 points per examination (3 x Progress + OSCE) + 4 points for Electives		20
3rd Year: 8 points per examination (3 x Progress + OSCE) + 8 points for Electives		40
4th Year: 12 points per examination (3 x Progress + OSCE) + 8 points for Electives		56
5th Year: 20 points per examination (3 x Progress + 6 clinical modules)	180	
Total	300	

Table: *cum laude points* - *[attached hereto]*

Table: *Cum laude* points

	70-74% (2/3 of the points 0.667)	75-79% (3/3 of the points)	80%+ (4/3 of the points 1.333)
Year 1			
3 Progress Examinations	0	0	0
OSCE	0	0	0
Ambulance % Basic Emergency Care Practitioners' course	2.667	4	5.333
Subtotal	**2.667**	**4**	**5.333**
Year 2			
3 Progress Exams (4 points per PE)	8	12	16
OSCE (4 points)	2.667	4	5.333
Elective/Selective Module (4 points)	2.667	4	5.333
Subtotal	**13.333**	**20**	**26.667**
Year 3			
3 Progress Exams (8 points per PE)	**16**	24	32
OSCE (8 points)	5.333	8	10.667
Elective/Selective Module (8 points)	5.333	8	10.667
Subtotal	**26.667**	**40**	**53.333**
Year 4			
3 Progress Exams (12 points per PE)	24	36	48
OSCE (12 points)	8	12	16
Elective/Selective Module (8 points)	5.333	8	**10.667**
Subtotal	**37.333**	**56**	**74.667**
Year 5			
Progress Exams (20 points per PE)	40	**60**	80
6 x Discipline-based Clinical Module Exams (20 points per exam)	80	120	160
Subtotal	**120**	**180**	**240**
Total Cumulative points	**200**	**300**	**400**

Duly Performed Requirements (DP)
M9(n)

Duly Performed requirements are attendance at 80% of small group meetings, skills training sessions, and programmed visits to various health care facilities. Failure to achieve these requirements will result in a student being barred from writing the next summative examination (Progress Examinations and/or Objective Structured Clinical Examination – OSCE).

Candidates who are unable to attend any of the above meetings for reasons of ill-health need to present an acceptable medical certificate, within one week of their absence, to the Head of the School of Undergraduate Education (SUE). If they are unable to attend such a meeting for any other reason, such a reason must be acceptable to the Faculty and has to be presented to the Head of SUE within three days of their absence.

SYLLABUSES

All syllabus requirements are approved and directed by the Board of the Faculty of Health Sciences and as needs arise may, from time to time, be amended as determined by the Board.

Theme 0 ORIENTATION

The aim is to introduce the 1st year medical students to the process and operation of self-directed, student-centred, problem-based learning and student support courses (*e.g., Isizulu for non-Zulu speakers, English for second language English speakers, Computer skills development, HIV/Aids thread running through the year etc.).*

Theme 1.1 DIABETES MELLITUS

Communication skills. Computer skills. Student responsibilities - holistic approaches to health care using Diabetes Mellitus as a health problem. Skills and concept course. Primary health care concepts. Diabetes: Anatomy and Physiology Histology of pancreas. Aetiology. Common clinical presentation in adults and children. Complications: visual, peripheral nerves and vascular. Management. Family implications. Epidemiology.

Theme 1.2 NUTRITION

The aim is to understand types of foods, balanced diet, metabolic processes and problems related to nutrition.

Normal requirements. Cellular metabolism. Protein malnutrition. Vitamin deficiency. Nutritional anaemia. Physiology of blood. Obesity. Rickets. Osteomalacia.

Theme 1.3 GROWTH & DEVELOPMENT

The aim is to understand the process of growth, from new-born to old age from a bio-psycho-social perspective.

Newborn - appropriate for gestation, small for dates, large for dates. Development of central nervous system. Embryology, Anatomy and Physiology. Histology; Basic genetics. Development: normal and deviation in early childhood, later childhood. Adolescence - psycho-social problems. Substance abuse. Acne - Histology of skin. Old age - related ethical issues. Management of severe physical and mental handicap in children.

Theme 1.4 INFECTION / INFLAMMATION

The aim is to understand aspects of infection, and the inflammatory process, using upper respiratory infection and pulmonary tuberculosis as a vehicle.

Anatomy, Physiology and Histology of the respiratory system. Patho-physiology of infection, inflammation. Upper respiratory infection - otitis media and externa. Tonsillitis, rhinitis, influenza, asthma and allergy. Clinical presentation and management. Basic epidemiology and biostatistics. Preventions.

Tuberculosis - biological and socio-economic aspects. Investigations and management. Problems of compliance, drug resistance and contact tracing. Prevention. Epidemiology of tuberculosis. Tuberculosis control programme.

Theme 1.5 REPRODUCTIVE HEALTH I

The aim is to introduce students to sexology - the consequences and the management of sexual behaviour. To understand diseases related to sexual behaviour, their diagnosis, management and treatment.

Anatomy of reproductive tract - revise. Fertility-regulation and contraception. Normal pregnancy and delivery. Antenatal care. Consequences of sexual behaviour. Sexually transmitted diseases, abortions, sexual abuse and rape. Obstetric emergencies and management.

Theme 1.6 TRAUMA & EMERGENCY CARE

The aim is to explore normal homeostasis in terms of fluid and electrolyte balance and then to understand trauma and the body's response in terms of homeostasis and neurological response to pain.

Normal fluid and electrolyte balance. Blood circulation - Physiology. Measurements. Trauma - mechanisms, body responses, healing. Assessment of trauma patients. Management of general airways, shock, blood transfusion and anaphylaxsis. Pharmacological management of pain. Minor wounds. Cardiopulmonary resuscitation 1.

Theme 2.1 CARDIO-RESPIRATORY DISORDERS

The aim is to introduce students to the anatomy and physiology of the cardiovascular system and the major disorders arising from its dysfunction. The clinical manifestation and management of such disorders will also be studied.

Anatomy of cardiovascular system and physiology of circulation. Cardiovascular system - structural heart disease - myocardial infarction. Hypertension: aetiology, clinical manifestations and management. Prevention: lifestyle and cardiovascular disorders. Respiratory conditions. Chronic obstructive airways disease (COAD). Health promotion. Paediatric cardiology. Cardiopulmonary resuscitation.

Theme 2.2 URO/GENITAL DISORDERS

The aim is to address the common medical and surgical urinary tract conditions in adults and children, their aetiology, clinical manifestations and management.

Anatomy, Physiology and Histology of the renal tract. Congenital malformations. Urinary tract infection. Acute and chronic causes of renal failure. Management. Patho-physiology of renal conditions. Renal obstructive uropathy. Disorders of the prostate, impotence, enureses. Urinary incontinence. Uro-genital trauma and circumcision.

Theme 2.3 DIGESTION & ABSORPTION

The aim is to understand the anatomy and patho-physiology of the upper gastro-intestinal tract. The clinical manifestations of abnormalities, both structural and functional in all age groups and their management.

Upper gastro-intestinal tract - oral cavity, salivary glands, stomach, oesophagus and small intestine. Physiology and Anatomy. Disturbances of upper gastro-intestinal tract. Diarrhoea, enteral and parenteral nutrition. Eating disorders such as Bulimia, Anorexia Nervosa.

Theme 2.4 "PEOPLE AND BUGS"

The aim is to understand clinical presentations, management and prevention of common infections/infestations from neonates to adult.

Common childhood and adult infections and infestation such as viral, bacterial, fungal and parasitic. Infectious disease control. Prevention - immunisation, lifestyles, environment and socio/economic conditions. Skin infection: Bacterial including leprosy. Viral - warts, herpes, molloscum contagiosum. Parasitic and fungal infections.

Theme 2.5 CENTRAL FUNCTION

The aim is to understand the Anatomy and Physiology of the central nervous system, the clinical manifestations associated with dysfunction of the central nervous system resulting in disabilities, and those disabilities associated with disorders of the special senses of hearing and vision.

Central nervous system: Anatomy and Physiology with emphasis on cerebral blood flow, cerebrospinal fluid, cranial nerves, cerebellum and brain stem. Central nervous system dysfunction from childhood to adulthood - infective, vascular and convulsions. Congenital and acquired dysfunction related to vision and hearing. Aetiology, diagnosis and management of cerebral palsy.

Theme 2.6 BODY IN MOTION I

The aim is to understand the Anatomy and Physiology of the locomotor system and the clinical manifestations of the dysfunction of the system using sports medicine as a vehicle.

Anatomy and Physiology of muscles, bones and joints. Sports medicine. Orthopaedics - common disorders including fractures.

Theme 3.1 BODY IN MOTION II

The aim is to gain knowledge of the anatomy and physiology of limbs and spine with emphasis on peripheral nerves and vascular systems, and the common disorders associated with it, their clinical manifestations and management.

Anatomical disorders of peripheral nerves and muscles including myopathies. Anatomy of spinal cord. Physiology of nerve conduction. Neck and lower back - clinical conditions, presentation and management. Painful joints - abnormal gait. Regional and local anaesthetic.

Theme 3.2 HORMONAL ORCHESTRA

The aim is to understand the normal structure and functioning of the endocrine system and disorders and the clinical and metabolic manifestation thereof. Attention will be given to psycho-social impact of disorders and their management.

Endocrine system - thyroid, pituitary, adrenal, pancreas, parathyroid, gonads. Anatomy, Physiology, disorders and management including in-born errors. Psycho-social aspects of the disorders. Physiology of puberty.

Theme 3.3 CELL DYSFUNCTION

A. The aim will be to understand the features of non-neoplastic growth disturbances and neoplasia. To explore clinico-pathological features, principles of management and ethical issues.
B. To gain knowledge of the skin manifestations of systemic disease.

General principles of tumours in terms of pathology, aetiology and epidemiology. Malignancies of skin, blood, organs and head and neck. Collagen and vascular conditions. Skin manifestation of systemic disorders include auto immune conditions.

Theme 3.4 FEVER

The aim is to understand the pathogenesis, etiology and management of fever from a neonate to adulthood.

Acute and chronic causes of chest infections, non-respiratory tuberculosis, tropical diseases such as malaria and typhoid, viral infections. Approach to pyrexia of unknown origin, clinical presentations and management. Infectious disease control.

Theme 3.5 ABDOMINAL COMPLAINTS

The aim is to introduce the student to the 'Acute Abdomen'. The normal anatomy and physiology of the large bowel and chronic disorders affecting the large bowel including ano-rectal conditions. Students will also be introduced to trauma of the abdomen. The principles of general anaesthesia will be discussed.

Causes of acute abdomen in adults and children - acute gastro-enteritis, hernias, ectopic pregnancy. Chronic causes - inflammatory conditions, irritable bowel and anal rectal conditions. Anaesthesia - preparation and problems. Chronic pelvic pain. Approaches to abdominal masses in adults and children. Differential diagnosis and management.

Theme 3.6 REPRODUCTIVE HEALTH II

The aim is to gain knowledge of the purpose of screening for gynaecological malignancies, the problems around menstrual disorders and the menopause; the causes of infertility and when to refer. Risk factors for predicting abnormal obstetric conditions and appropriate referral. The basic principles of audit will also be discussed.

Primary and secondary causes of infertility and its management. Screening, pathology, presentation and management of malignancy. Menopause and issues - osteoporosis, cardiovascular risks and prolapse. Patho-physiology, clinical presentation and management of menstrual disorders. Risk factors and management of abnormal obstetric conditions. Medical audit.

Theme 4.1 SIGHT AND SOUND

The aim is to understand the structure and function of the end organs for sight and sound, their neural pathways, dysfunction and disease.

The eye. Physics of refraction. Neural pathways. Common problems of the eye including acute red eye, abnormal appearance. Diagnosis and management of: visual impairments. The eye in systemic diseases. Traumatised eye. Legal requirements of visual acuity.

The ear. Physics of sound. Neural pathway of hearing. Causes, diagnosis and management of hearing loss.

Theme 4.2 HIGHER MENTAL FUNCTION

The aim is to explore and understand the disturbance of higher mental function. Attention will be devoted to relevant neuro-anatomy, neuro-physiology, history taking, clinical manifestations and management of these disorders.

Neuro-anatomy and neuro-physiology in relation to higher-mental function. Physiology and Biochemistry of neuro-transmitter function. Approach to diagnosis and management of headaches. Abnormalities of cognitive function, consciousness and psychotic disorders.

Theme 4.3 JAUNDICE

The aim is to deal with the clinical recognition and understand the significance of jaundice.

Anatomy, embryology, Physiology and Histology of the liver and biliary system. Haemolytic and obstructive causes of jaundice from neonates to adulthood. Alcohol abuse and the hepato-portal hypertension, liver failure and liver and drug metabolism.

Theme 4.4 LIFESTYLES

The aim is to understand health and disease as reflections of the social/cultural/environmental/political/ economic circumstances and lifestyles.

Definition and multi-factorial causes of stress. Coping with stress - Adaptive: exercise and meditation, Maladaptive: substance and alcohol abuse. Smoking and related conditions. Other psycho-social responses. The impact of such on personal health, the family, and society - especially domestic violence and child abuse, post-traumatic stress. Conditions related to specific lifestyles - sexually transmitted diseases, HIV, cancer of the skin, obesity and loneliness in the aged. Management. Holistic approach to management. Health promotion.

Theme 4.5 MAN/ENVIRONMENT/HEALTH

The aim is to understand the relationship between health, the workplace and the environment and their impact on health.

Legislation in relation to occupational and environmental health. Management and rehabilitation of occupational diseases and injuries. Concepts in relation to hazards. Environment and health - housing, pollution, water supply and sanitation. Inter-sectoral collaboration in addressing these issues. International disasters - international perspectives and policies. Public health issues in relation to environmental health.

Theme 4.6 PRACTICE MANAGEMENT/THERAPEUTICS/OTHER TOPICS

The aim is to understand medicine in the different areas and the social settings in which it is practised.

1. GP attachment – practice management, projects, case studies, common dermatoses seen in general practice.
2. Pharmacology/Therapeutics.
3. Legal/Ethical aspects of medical practice.

further in-depth study of some topics including Bleeding, Coagulation Disorders, Health Information System, Health Economics.

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (OLD CURRICULUM)

Admission

M2 Except with the special permission of Senate, no candidate shall be permitted to register for the degrees unless they have previously obtained a full matriculation exemption or equivalent at first attempt.

Curriculum

M3 (a) Candidates shall meet the promotion criteria for the following courses.

OLD CURRICULUM

THIRD YEAR

MMI3MIY	Microbiology
MPR3PHY	Pharmacology
MAP3ANY	Anatomical Pathology
MBH3BE1	Behavioural and Social Science 2
MME3ICY	Introduction to Clinical Methods

FOURTH YEAR

MCH4COY	Community Health 2
MCP4CHY	Chemical Pathology
MFO4FMY	Forensic Medicine
MME4MEY	Medicine 1
MSU4SUY	Surgery 1
MOG4OBY	Obstetrics and Gynaecology 1
MPS4PSY	Psychiatry 1

FIFTH YEAR

MFO5MLY	Medical Law & Ethics
MME5THY/5CLY	Medicine 2
MSU5THY/5CLY	Surgery 2
MOG5THY/5CLY	Obstetrics and Gynaecology 2
MPD5THY/5CLY	Paediatrics 2
MPS5THY/5CLY	Psychiatry 2

SIXTH YEAR

MME6THY/6CLY	Medicine 3
MSU6THY/6CLY	Surgery 3
MOG6THY/6CLY	Obstetrics and Gynaecology 3
MPD6THY/6CLY	Paediatrics 3
MPS6THY/6CLY	Psychiatry 3
MFM6THY/6CLY	Family Medicine

(b) Candidates shall not be promoted to the subsequent year unless they have met all the promotion criteria of the Faculty in the examinations and/or clinical assessments as stipulated in Act No 56 of 1974 (Government Gazette No R652 of 5 May 1995).

Note:
Obstetrics and Gynaecology, Family Medicine and Paediatrics Clinical, Vivas and OSCE examinations will be held at the end of each block.

There will be no re-examination in Obstetrics, Gynaecology, Family Medicine and Paediatrics. The end of block examination is the final examination.

Supplementary Examinations

M4 Supplementary examinations or clinical assessments may be granted in all courses failed with a mark of between 40-48 per cent at the previous ordinary examination.

Promotion and Refusal of Readmission

M5 (a) Candidates in any year of study shall not be promoted to the next year unless they have obtained credit for all subjects prescribed for a particular year.

(b) Candidates who have not completed all the prescribed courses for any one year of study within two years shall be refused readmission.

(c) Candidates who have not completed all the prescribed first, second and third year courses within five years shall be refused re-admission.

(d) Candidates in first or second year who obtain an overall aggregate total of less than 30 per cent for all courses in either first or second year shall be refused readmission in that year.

(e) Candidates who, on Psychiatric grounds or grounds of substance abuse, are deemed impaired and unable to continue their studies after due consideration and assessment by an *ad hoc* committee of the Board, shall have their registration suspended or be refused readmission.

Award of Degree *Cum Laude*

M6 The degrees of Bachelor of Medicine and Bachelor of Surgery will be awarded *cum laude* if a candidate: obtains a total of 210 points *and summa cum laude* if a candidate obtains a total of 225 points to be allocated according to the following formula.

2nd Year	**70-74%**	**75-80%**	**80%+**
Anatomy 2	10	15	20
Physiology 2	10	15	20

3rd Year	**70-74%**	**75-80%**	**80%+**
Pathology	10	15	20
Pharmacology	10	15	20
Microbiology	10	15	20
Behavioural & Soc Science	4	6	8

4th Year	**70-74%**	**75-80%**	**80%+**
Chemical Pathology	10	15	20
Community Health	10	15	20
Forensic Medicine	3	5	7

5th Year	**70-74%**	**75-80%**	**80%+**
Medical Law and Ethics	2	4	6

6th Year	**70-74%**	**75-80%**	**80%+**
Medicine 3	20	30	40
Surgery 3	20	30	40
0bstetrics & Gynaecology 3	20	30	40
Paediatrics 3	40	30	40
Psychiatry 3	20	30	40
Family Medicine	20	30	40

BACHELOR OF MEDICAL SCIENCE HONOURS

Admission

M7 No candidate shall be permitted to register for the degree unless they have been previously awarded the degree of Bachelor of Medical Science of the University or been admitted to the status thereof.

Curriculum

M8 Candidates for the degree shall be required to pursue an approved course of study and research on a subject selected in consultation with the relevant Head of Department and shall attend the University for at least two semesters (full-time) or four semesters (part-time) after admission to the course.

M9 The subject of the Honours course shall consist of a core program plus a specialisation appropriate to that taken by the candidates in their majors.

M10 Candidates may be refused admission to the Honours course should the course be inappropriate or previous results be of an unacceptable standard (i.e. less than 60% in the first degree majors).

Examinations

M11 Candidates for the Honours degree shall be required to present themselves for all parts of the final examination (written, oral and practical at the discretion of the appropriate Heads of the Department) in the first two semesters of registration, except where the course is taken part-time in which case candidates must present themselves for examination at the end of four semesters.

No candidates for the degree may present themselves for the final examination more than once.

Award of the Degree *Cum Laude*

M12 The Degree of Bachelor of Medical Science (Honours) shall be awarded *cum laude* if a candidate obtains a weighted average mark of at least 75% in the core and major subjects.

BACHELOR OF MEDICAL SCIENCE HONOURS (MEDICAL MICROBIOLOGY)

Admission

M13 No candidate shall be permitted to register for the degree unless they have been previously awarded the degree of Bachelor of Medical Science, or Bachelor of Science with majors in cell biology and one of the following subjects, microbiology, immunology, biochemistry, or Bachelor of Veterinary Science, or a Professional Pharmacy degree; or been admitted to the status thereof.

Curriculum

M14 Candidates for the degree shall be required to pursue an approved course of study which shall consist of a core program plus an appropriate specialisation and research on a subject selected in consultation with the Head of Department.

Duration

M15 The course shall run for four semesters of full time study.

Examinations

M16 Candidates for the Honours degree shall be required to present themselves for all parts of the final examination (written, oral and practical at the discretion of the appropriate Head of the Department) in the last year of registration. A commentary on a topic as approved by the Head of Department will be submitted at the end of the fourth semester.

No candidates for the degree may present themselves for the final examination more than once.

Award of the Degree *Cum Laude*

M17 The Degree of Bachelor of Medical Science Honours (Medical Microbiology) shall be awarded *cum laude* if a candidate obtains a weighted average mark of at least 75% in the core and major subjects.

MASTER OF MEDICINE

M18 **Abbreviation:** The degree of Master of Medicine will be denoted by the abbreviation MMed. The designated speciality subject in which the degree was obtained will be indicated in parentheses.

M19 **Admissions:** Candidates shall not be permitted to register for the degree unless they have previously:

(a) been awarded the Bachelor of Medicine and Bachelor of Surgery degrees of the University or admitted to the status thereof; and

(b) met the requirements of the Health Professions Council to enter for specialist training.

M20 **Registration:** The period for which candidates are required to be registered as postgraduate students in the speciality department in which study is being pursued and the minimum periods which may apply under certain conditions are shown in Rule M24 (Specific Requirements). Unless otherwise indicated in Rule M24 exemption of not more than 2 years may be given in respect of training and experience considered to be equivalent for this purpose. Registration includes both registration with the University as a postgraduate student in the speciality department *and* incumbency (including past incumbency) of a post designated by the Health Professions Council as a training post in that discipline, except in the case of supernumerary students as defined by the Board of the Faculty and reported to the Senate Executive, in which case only registration with the University will be necessary. Incumbency of designated training posts will be full-time except in the case of certain disciplines indicated in Rule M24 when not more than 2 years may be part-time.

M21 **Speciality Disciplines and Ancillaries**

(a) **Speciality Disciplines:** Candidates shall pursue advanced study and deliver service for training in the speciality discipline. Candidates are required to participate in all academic and in-service programmes specified by the Head of the Department and to administer a standard of service which, through an ethos of humanitarianism and excellence, brings credit to the profession and the University.

(b) **Ancillary Disciplines**: Training and examination in specified ancillary disciplines is a requirement in respect of certain speciality disciplines. Compulsory ancillary disciplines in respect of each speciality discipline are shown in Rule M24. The nature of courses and examinations in ancillary disciplines will be determined by consultation between the Head of Department of the speciality discipline and the Head of Department of the ancillary discipline and will take account of the requirements of the Health Professions Council concerning that speciality.

M22 **Examination**: Examinations leading to the MMed degree will be conducted in a number of parts. The number of examination parts in respect of each speciality subject and the minimum number of semesters for which candidates shall be registered before being permitted to present for examination are shown in Rule M24. Unless otherwise indicated in Rule M24 candidates may not present themselves for examination in any part, except the first part, unless they have been registered for, and completed, a minimum of two semesters since completing the preceding part.
Re-examination: In the event of a candidate failing the examination in Part I or Part II the examination may be rewritten 6 monthly for a total of three attempts, further attempts requiring the special permission of the Faculty Board.

M23 **Dissertation**: Candidates are required to undertake research and submit a dissertation on a topic relevant to the speciality which has been approved by the Head of Department. Candidates may, at the discretion of the Head of Department be required to submit to an oral examination in the same field of research as that addressed in the dissertation. Candidates shall submit a protocol for the approval of the Ethics and Higher Degrees Sub-Committees.

M24 **Exemptions from Examination**: A candidate who has passed an examination of the College of Medicine of South Africa or an equivalent examination in the same speciality may be exempted from the corresponding examination of the University. A candidate who is registered with the Health Professions Council of South Africa as a specialist in a particular discipline, may after registration as a student for one year, be awarded the MMed degree on successful submission of a dissertation.

M25 The degree of Master of Medicine may be awarded *cum laude*:

(a) to those candidates who obtained an "X" rating in each component of the examination;

(b) where candidates were exempted from any part of the Master of Medicine examination by virtue of an equivalent College of Medicine examination, such candidates would be awarded the Master of Medicine *cum laude* only if they had obtained an "X" rating in the College examination as well as the dissertation.

M26 *Specific Requirements for Speciality:* See correspondingly labelled table.

(E = Examination) (D = Dissertation)

DISCIPLINE	DURATION OF REGISTRATION (Years)	ANCILLARY SUBJECTS	EXAMINATION PARTS: SEMESTERS BEFORE WRITING		
			PART I	PART II	PART III
ANAESTHETICS	4	Physiology Pharmacology Physics Clinical Measurement Clinical Chemistry Anatomy Pathology	2	6	(D)

The Department of Anaesthetics does not offer a Masters degree by coursework. The masters degree is an academic qualification which can be obtained following the successful submission of a research dissertation and in conjunction with passing the FCA (SA) or equivalent.

PATHOLOGY	5		4	8	10(D)

The Department of Pathology does not offer a Masters degree by coursework. The Masters degree is an academic qualification which can be obtained following the successful submission of a research dissertation and in conjunction with passing the FCPath (SA) or equivalent.

CHEMICAL PATHOLOGY	4	CHEMICAL PATHOLOGY	3	8(E&D)	

The Part I examination, which may be written at any time after the completion of the first 3 semesters in the department, involves two 3 hour written papers, a practical examination and an oral examination. The format is subject to change at the discretion of the Head of Department. The Part 1 examination is compulsory for all registrars.

Upon passing Part 1, the candidate who wishes to proceed to Part II must identify a dissertation topic at the beginning of the third year of training. The Part II examination (final) includes two 3-hour written papers, a laboratory practical, a dissertation and an oral.

The registrar can alternatively opt to do the FC Path (SA) examination in lieu of the Part II M Med examination. This must be clearly stated in writing within the first two months of the third year of training.

CLINICAL PATHOLOGY *22 weeks	5	*Chemical Pathology *Haematology *Microbiology (including Virology)	2 *in each subject	10 (E&D)	

Part I will consist of written examinations after at least two semesters in each of the major subjects. The final examination Part II at the end of the 5th year of study will require an extensive oral examination and the submission of a dissertation three months prior to the final examination. Approval of the dissertation topic shall be obtained from the Heads of the three major sub-departments.

DERMATOLOGY	4	Basic Sciences including Anatomy & Physiology Biochemistry Histochemistry General Pathology Dermatology General Medicine	3	5	8(D)

The dissertation may be supported by publications by the candidate in the field of the research.

FORENSIC PATHOLOGY	5	Anatomical Pathology Chemical Pathology Haematology Microbiology	4	10	10(E&D)

Dissertation to be submitted in 5th year *before* sitting final examination.

HAEMATOLOGY	4	Nil	3 in either the subjects chosen or only this discipline	7(E&D)	

The Part I examination may be written at any time after the completion of 3 semesters but before the completion of the 5th semester. It involves written papers and a laboratory practical at the discretion of the Head of Department. The Part II examination (final) includes written papers, a laboratory practical (as determined by the Head of Department), clinical haematological cases and an oral. A dissertation is also required and may be submitted any time during the final year. The award of the FFPath (SA) may substitute for the written and practical components of the MMed Part II examinations, but the clinical examination, oral, and dissertation will be required for completion of the degree.

MEDICAL MICROBIOLOGY	4		4		8 (E&D)

This 3½ years of specialisation starts with bench training in all aspects of microbiology, including virology. This is followed by training in bedside consultation based on laboratory results and management of patients with infections. Considerable attention will be given to research methodology. Each student will do at least one research project in which basic science bench techniques will be applied. Special courses in related topics (immunology, molecular biology, epidemiology and statistics etc.) will be organised throughout the years. The contents will form an integral part of the examinations.
Part I and II examinations consist of one or two theory papers, plus a laboratory practical and oral examinations (as determined by the Head of Medical Microbiology). Students who opt to do the College of Medicine examination, are expected to write a dissertation based on one of the research projects done while in training.

MEDICINE	4	Anatomy Physiology Pathology	6(E&D)		

Examination not written in PARTS
In Medicine Rule M28 does not apply. The MMed (Medicine) in isolation is not regarded as sufficient for specialist registration. The Masters degree is a purely academic qualification subject to the successful submission of the dissertation once the candidate has completed a suitable qualification recognised for specialist registration by the Health Professions Council of South Africa, such as the FCP (SA). The dissertation may be supported by publications by the candidate in the field of the research.

NEUROLOGY	4	Neuroanatomy Neurophysiology Neuropathology Neurochemistry Neuroimmunology	2	6	7(D)

Where the candidate is in possession of the qualification FCP(SA) (Internal Medicine), or an equivalent recognised by the HPCSA, the candidate shall register for a period of 3 years and complete by examination the major and ancillary subjects and present a dissertation by the end of the 6th semester.

NEUROSURGERY	5	Anatomy Physiology Pathology Principles of Surgery Principles of Intensive Care Neuroradiology	2	4	6 (E&D)

Candidates shall have at least 6 months experience in a full-time clinical post in General Surgery. A dissertation shall be submitted not before the end of the fifth year (ten semesters).

OBSTETRICS & GYNAECOLOGY	4	Anatomy Phisiology Pathology Cytology Statistics Pharmacology Embryology	2	6	8(E&D)

		Histology Microbiology Virology Physics of Ultrasound Oncology			

The Part I examination shall be passed by the end of the 4th semester and the Part II can be written after the 6th semester. Two dissertations within the field of Obstetrics and Gynaecology approved by the Head of Department shall be submitted before the Part II examination is written. This shall be a record of original and independent research conducted by the candidate under the guidance of a supervisor and it may be supported by copies of the candidate's publications in the same field of research.
Candidates may be required to submit themselves to an oral examination in the same field of research.
Candidates who have completed the Part I and II examinations of the College of Medicine of South Africa are required to submit a dissertation for completion of the degree.

OPHTHALMOLOGY	4	Anatomy & Embryology Visual apparatus Physiology & Optics of Visual System	2	4	8(E&D)

Candidates are required to present a dissertation before the end of the fourth year (8th semester).
A candidate who has obtained the FCS (Ophth) (SA) Part I and Part II, may be exempted from the MMed Part I and Part II examinations but must complete the dissertation in order to be awarded the MMed degree.

ORTHOPAEDIC SURGERY	5	Anatomy Physiology General Pathology General Surgical Principles Biomechanics Orthopaedic Pathology	2	4	10(E&D)

One of the five years shall be devoted to a field of surgery other than that of Orthopaedic Surgery.
The MMed Final examination will be conducted in three parts: written, clinical and oral - on all facets of orthopaedics. A short dissertation shall also be submitted.
The dissertation shall be a record of independent research conducted by the candidate.

OTORHINO-LARYNGOLOGY	4	Anatomy Pathology Physiology Audiology General Surgical Principles	2	4	8(E&D)

A dissertation within the field of Otorhinolaryngology, approved by the Head of Department, shall be completed by the end of the 8th semester of study.
A candidate cannot be granted exemption from Part 1 MMed Otology (in respect of Rule M24 Exemptions from Examination) if he/she has passed the College of Medicine of South Africa FCS 1(a) examination. The candidate will have to write the MMed Part 1 examination but may be exempted from general physiology and neuroanatomy.

PAEDIATRICS & CHILD HEALTH	4	Basic Sciences related to Paediatrics	4 incorporated into Part III	6(D)	8(E)

Dissertation to be submitted after 6th semester before sitting final examination on a subject relating to Paediatrics and Child Health. This shall be a record of original research carried out by the candidate in the University and may be supported by copies of the candidate's publications in the same field of research.

PLASTIC & RECONSTRUCTIVE SURGERY

The MMed (Plastic and Reconstructive Surgery) in isolation is not regarded as sufficient for specialist registration. The Masters degree is a purely academic qualification subject to the successful submission of a dissertation once the candidate has completed a suitable qualification such as FCS(SA) recognised for specialist registration by the HPCSA.
The dissertation may be supported by publications by the candidate in the field of the research.

PSYCHIATRY	4	Neuroanatomy Neurophysiology Psychology Neurology	2	6	8(D)

The Part I examination shall be passed by the end of the 4th semester and the Part II examination by the end of the 8th semester. The research dissertation shall be completed by the end of the 8th semester.

PUBLIC HEALTH MEDICINE	4	Communicable and non-communicable health related conditions Management and administration Epidemiology, biostatistics and demography Environmental health Occupational health	2	6	8(D)

Notwithstanding Rule M19(a), candidates will not be admitted without having completed a minimum of 4 years in an appropriate health service post. All candidates will be required to complete the **Masters in Public Health (MPH)** which will constitute the Part I examination. In addition, the Head of School may stipulate that certain of the MPH elective courses be completed to satisfy this requirement.

RADIOLOGY	5	Radiological Physics Radiological Anatomy Physiology as applied to Radiology Pathology as applied to Radiology	2	8(E)	10(D)

Candidates exempted from Part II of the examination will be required to submit to an oral examination. A dissertation shall be submitted, not before the end of ten semesters of study. Candidates in possession of the full FCRad(D) (SA) or equivalent degree recognised by the HPCSA may, with the approval of Senate, pursue research under the guidance of a supervisor in the University for a period of at least two years and present a dissertation based on that research.

RADIOTHERAPY AND ONCOLOGY	4	Anatomy Physiology Physics Radiobiology Statistics	2	2	6(E&D)
SURGERY CARDIO-THORACIC SURGERY PLASTIC AND RE-CONSTRUCTIVE SURGERY	4	Anatomy Physiology Pathology	3	4	8(D)

These disciplines do not offer a Masters by coursework. The MMed (Surgery) in isolation is not regarded as sufficient for specialist registration. The Masters degree is a purely academic qualification subject to the successful submission of the dissertation once the candidate has completed a suitable qualification such as the FCS (SA).recognised for specialist registration by the HPCSA.
The dissertation may be supported by publications by the candidate in the field of research.

UROLOGY	4	Anatomy Physiology Pathology	2	4	8(E&D)

One year of Surgical experience before the final examination is a requirement of the degree.

VIROLOGY PATHOLOGY	4	Medical Microbiology	2	4	8(E&D)

The Part I examination may be written at any time after the completion of 2 semesters. A candidate shall spend at least three months in Medical Microbiology prior to this examination. The examination involves written papers testing basic knowledge of virology, a laboratory practical and an oral examination at the discretion of the head of department.

The Part II examination (final) includes written papers, a laboratory practical, an oral examination and the submission of a dissertation at least 6 months prior to the final examinations.

The award of the FFPath(Clinical Virology)(SA) may substitute for the written and practical components of the MMed Part II examinations, but a clinical examination and dissertation will be required to complete the degree.

MASTER OF MEDICAL SCIENCE

M27 Candidates shall not be permitted to register for the degree unless they have previously been awarded the degree of Bachelor of Medical Science (4 year degree); or Bachelor of Medical Science (Honours); or Bachelor of Science (Honours); or Bachelor of Medicine and Bachelor of Surgery; or, in respect of

the Department of Community Health only, an Honours degree in a relevant discipline as approved by Faculty Board on the recommendation of the Higher Degrees sub-Committee of the Faculty or been admitted to status thereof.

M28 Candidates for the degree shall pursue advanced study and research under the guidance of a supervisor or supervisors appointed by Senate.

M29 The subject of study and research proposed for the degree shall be approved by Senate and shall be connected with the medical sciences.

M30 Senate may require candidates for the degree to take courses in any prescribed subject or subjects in addition to the subject which they offer for the degree.

M31 The examination shall consist of a dissertation, or of two or more written papers or projects, or of a dissertation together with one or more written papers or projects, as Senate may prescribe.

M32 The examiners may require candidates for the degree to present themselves for oral questioning in addition to other such examination as may be prescribed by Senate.

M33 At least three months before the dissertation is to be presented, candidates shall give notice in writing to the University, submitting at the same time the proposed title and an outline of the plan and general scope of the work.

M34 Every dissertation submitted for the degree shall be accompanied by a declaration to the satisfaction of Senate, stating that it has not been submitted for a degree in any other University.

M35 Three copies of every dissertation shall be submitted to the University. In special cases Senate may, in respect of material other than the text, allow some relaxation of the rule regarding submission of three copies.

M36 No candidate for the degree shall present themselves for examination in any subject more than once, except for special reasons to be approved in each particular case and on conditions to be determined by Senate. It shall, however, be competent for the examiners to recommend, and for Senate to approve, that a dissertation be referred back to the candidate for revision or extension.

M37 The degree of Master of Medical Science may be awarded *cum laude*.

MASTER OF MEDICAL SCIENCE (MEDICAL MICROBIOLOGY)

Admission

M38 No candidates shall be permitted to register for the Master of Medical Science in Medical Microbiology unless they have previously been awarded at least one of the following degrees or been admitted to status thereof: Bachelor of Medicine and Bachelor of Surgery, Bachelor of Pharmacy, Bachelor of Veterinary Science, Bachelor of Dental Surgery, Bachelor of Medical Science Honours with Microbiology.

Duration

M39 The course extends over three years (six semesters) with part-time academic tuition.

M40 The examination shall consist of a research project on a topic approved by the Head of Department, commenced at the beginning of the first semester and submitted at the end of the sixth semester.

Award of Degree *Cum Laude*

M41 The degree of Master of Medical Science Medical Microbiology may be awarded *cum laude*.

MASTER OF MEDICAL SCIENCE (ENVIRONMENTAL HEALTH)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (OCCUPATIONAL HYGIENE)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (OCCUPATIONAL AND ENVIRONMENTAL MEDICINE)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (ERGONOMICS)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (MEDICAL INFORMATICS)

Additional Exit Points
POSTGRADUATE CERTIFICATE IN MEDICAL INFORMATIC S (PGCERMI)
POSTGRADUATE DIPLOMA IN MEDICAL INFORMATICS (PGDIPMI)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (TELEMEDICINE) (MMSCTM)

Additional Exit Points
POSTGRADUATE CERTIFICATE IN MEDICAL INFORMATICS (PGCERMI)
POSTGRADUATE DIPLOMA IN TELEMEDICINE (PGDIPTM)
(The Rules will follow)

MASTER OF MEDICAL SCIENCE (SPORTS MEDICINE)
POSTGRADUATE DIPLOMA
(SPORTS MEDICINE)
Department of Physiology (School of Medical Sciences)

Admission

M42 No candidates shall be permitted to register for the Master of Medical Science in Sports Medicine by coursework unless they have previously been awarded the degree of Bachelor of Medicine and Bachelor of Surgery or Bachelor of Science (Physiotherapy) or Bachelor of Human Movement Science (Honours) or have been admitted to status thereof; and have been registered with the Health Professions Council as a medical practitioner, a physiotherapist or a biokinetician for not less than two years.

Duration

M43 The course extends over five semesters with part time academic tuition.

M44 The examinations for the **Postgraduate Certificate in Sports Science** shall be at the end of the first and second semesters. The examinations for the **Postgraduate Certificate in Sports Medicine** shall be at the end of the third and fourth semesters.

In the event of a candidate failing either the Postgraduate Certificate in Sports Science or the Postgraduate Certificate in Sports Medicine, the examination may be written six monthly for a total of three attempts only. Further attempts will require the permission of the Board of the Faculty of Medicine.

The **Postgraduate Diploma in Sports Medicine** will be awarded on successful completion of both the Postgraduate Certificate in Sports Science and the Postgraduate Certificate in Sports Medicine.

A commentary on a topic as approved by the Head of the School will be submitted at the end of the fifth semester. After successful completion of the commentary and the Postgraduate Diploma in Sports Medicine the candidate will be awarded the **Master of Medical Science in Sports Medicine.**

M45 The degree of Master of Medical Science (Sports Medicine) may be awarded *cum laude*

MASTER OF CLINICAL PHARMACOLOGY (MClinPharm)

Admission

M46 No candidates shall be permitted to register for the Master of Clinical Pharmacology degree unless they have previously been awarded at least one of the following degrees or been admitted to status thereof: Bachelor of Medicine and Bachelor of Surgery; Bachelor of Pharmacy; Bachelor of Dental Surgery.

In addition candidates must have full registration with their appropriate statutory Council in South Africa.

Duration

M47 The duration of the course extends over THREE YEARS (six semesters) with part-time academic instruction.
A candidate who has passed the examinations at the end of Module 4 (2 years) may exit with a Postgraduate Certificate in Clinical Pharmacology (PGCertClinPharm)

M48 The examination shall consist of the following:
ONE paper, at the end of each of semester one (module 1) and semester 2 (module 2);
ONE open book examination each at the end of semesters 3 and 4 (modules 3 and 4);
ONE paper and ONE OSCE examination at the end of semester 5 (module 5); and
A project at the end of six semesters

The pass mark for modules 1 to 5 will be 60%, and a supplementary examination will be granted to those obtaining between 50 and 59%. With the exception of the project (module 6), no candidate may register for a subsequent module before passing the previous module.

The project (module 6), on a topic approved by the Head of Department, is to be commenced during the first semester and must be submitted by the end of the sixth semester. Successful completion of the project (module 6) will require the submission of a paper to a peer-reviewed journal, acceptable to the supervisor and Head of Department, as well as evaluation by the supervisor and an external examiner in the form of an ORAL examination.

No candidate will be allowed to attempt the examinations in any module more than twice.

Award of Degree *Cum Laude*

M49 The degree of Master of Clinical Pharmacology may be awarded *cum laude*.

MASTER OF FAMILY MEDICINE (MFAMMED)

Department: Family Medicine

Admission

M50 Candidates shall not be permitted to register for the degree unless they have previously:
(a) been awarded the Bachelor of Medicine and Bachelor of Surgery degrees of the University or admitted to status thereof at least two years before being admitted as candidates for the degree.

(b) met the requirements of the Health Professions Council.

Duration

M51 The duration of the course extends over three years (six semesters) with part-time academic and practical instruction.
Candidates are required to conduct specific work assignments between the periods of instruction in their own general practice or other primary care situation in which they are currently employed. In the event of candidates not being so employed, access to primary care situations for the conduct of assignments will be provided.

Examination

M52 The examination for Part I shall be written at the end of the 2nd semester. A candidate shall not proceed to Part II until the Part 1 examination has been passed. The examination for Part II shall be written at the end of the sixth semester.

Candidates shall not be admitted to examination for Part I or Part II until they have completed the prescribed courses and practical assignments for the first two semesters and last four semesters of study, respectively.

In the event of the candidate failing either Part I or Part II, the examination may be written six-monthly with a total of three attempts for each. Further attempts will require the permission of the Board of the Faculty of Medicine.

A critical literature review, on an approved subject, shall contribute towards the final examination result. This critical literature review must be submitted during and/or before the end of the sixth semester.

Award of Degree *Cum Laude*

M53 The degree of Master of Family Medicine may be awarded *cum laude.*

MASTER OF PUBLIC HEALTH
School of Family and Public Health Medicine

M54 Candidates for the **Master of Public Health** shall have at least a four-year Bachelors degree from a recognised institution, or have been admitted to the status thereof by the University.

M55 Candidates will be subject to selection. It is recommended that candidates should be employed in a public health field, and ideally should have at least 2 years of public health working experience.

M56 The curriculum for the qualification shall extend over a minimum period of two semesters and a maximum period of 10 semesters of part time academic tuition. Once registered, the candidate should not break the period of study for more than one academic semester.

M57 The curriculum shall comprise 9 compulsory / core modules (64 credits), 3 elective modules (32 credits), and a research report (32 credits - 25% of minimum required) on a public health topic approved by the Head of the School. A compulsory non-credit bearing module – "Introduction to Public Health" needs to be completed for DP purposes.

M58 After completion of 8 modules (64 credits), the candidate can be awarded the **Advanced Post Graduate Certificate of Public Health**. After completion of 16 modules (128

qualification work credits), the candidate can be awarded the **Advanced Post Graduate Diploma in Public Health.**

M59 Each module will be examined separately. The assessment for each module will be made up of a group and individual assignments (50%) and a written examination (50%). Written examinations will be conducted at the end of each semester for modules offered during that semester.

M60 A candidate who has passed the group assessment and module assignments may re-write the examination every six months for a total of two attempts only. If further attempts are required, the candidate will need to attend the module again. A candidate who fails the examination and the module assignments will be expected to re-register for the module. The candidate who achieves a "compensatable fail" on first submission of the module assignment, may after improving it resubmit the assignment once.

M61 The core modules are:

Core Modules	Credits	UND Module Code
Health Economics and Financing	8	MCH8EFM
Health Measurement 01 (HM01)	8	MCH8H1M
Health Measurement 02 (HM02)	8	MCH8H2M
Health Promotion and Communication	8	MCH8HPM
Health Service Management 01 (HSM01)	8	MCH8S1M
Health Service Management 02 (HSM02)	8	MCH8S2M
Health Systems	8	MCH8HSM
Introduction to Public Health	DP	MCH8PHM
Public Health Policy and Legislation	8	MCH8PAM
Research Methodology	8	MCH8RMM
Research	32	MCH8RPM

M62 Elective modules currently offered include:

Elective Modules	Credits	UND Module Code
Communication in Population Studies	8	MCH8CSM
Demography	8	MCH8DGM
Epidemiological Basis of Tuberculosis Control	8	MCH8TBM
Epidemiology (Intermediate)	16	MCH8EIM
Evaluation of Population Programmes	8	MCH8PPM
Infectious Diseases 01	8	MCH8I1M
Introduction to Epidemiology of Infectious Diseases	8	MCH8EDM
Introduction to Occupational Health	8	MCH8OHM
Introduction to Population Studies	8	MCH8PSM
Introduction to Reproductive Health	8	MCH8RHM
Maternal to Child Transmission of HIV	8	MCH8MTM
Maternal and Child Nutrition	8	MCH8MNM
Qualitative Research Methods	8	MCH8QRM
Introduction to Medical Informatics as a Global System	8	MIN8IT1

M63 Masters level Public Health modules (up to 32 credits) can be taken for non-degree purposes and credited towards the MPH prior to registration for the Master of Public Health.

M64 The Advanced Postgraduate certificate, Advanced Postgraduate Diploma and the Master of Public Health can be awarded cum laude

DOCTOR OF MEDICINE

M65 No candidates shall be permitted to register for the degree unless they have previously been awarded the degree of Bachelor of Medicine and Bachelor of Surgery of the University or been admitted to the status thereof.

M66 Intending candidates shall be required to produce evidence satisfactory to the Senate of their competence to work for the degree, and the Senate may decline to admit as a candidate for the degree any person whose previous academic attainments are in its opinion, not sufficiently high to warrant such admission.

M67 Candidates for the degree shall be required to have attended as registered students of the University for a period of not less than four semesters and pursue an approved Qualification of study or research on some subject connected with the medical sciences and falling within the scope of the studies represented in the University.

M68 The Senate shall appoint one or more supervisors to advise candidates whose subjects of special study or research have been approved, and candidates shall be required to work in association with the supervisor or supervisors as the Senate may direct.

M69 Candidates for the degree shall be required to submit four copies of a thesis which shall be a record of original and independent research carried out by the candidate and which may be supported by copies of the candidate's publications in the same field of research, or by copies of published work in this field done jointly with other investigators.

M70 No thesis shall be accepted which is not a work of distinction in its field, and which does not make an important contribution to the advancement of learning.

M71 Except with the special permission of the Senate, candidates shall be required to submit themselves to examination, written or oral, or both, on the subject of their thesis and on the whole field of study in which it falls.

M72 The Common Rules for the degree of Doctor of Philosophy in all Faculties, D4, D7, D8, D9, D11, D14, shall also be of effect for the degree of Doctor of Medicine.

M73 Candidates who after eight semesters of full time study or ten semesters part time study have not completed the requirements for the degree may be refused permission to renew their registration.

M74 An accepted thesis subsequently published in whatever form shall bear the inscription:

" Thesis approved for the degree of
Doctor of Medicine in the Faculty of Medicine
in the University of Natal ".

DOCTOR OF PHILOSOPHY

M75 No candidates shall be permitted to register for the degree unless they have previously:

(a) been awarded the degree of Bachelor of Medicine and Bachelor of Surgery, or been admitted to the status thereof; *or*

(b) been awarded the degree of Master of Medical Science, or Master of Science, or Master of Science in Agriculture, or Master of Science in Engineering, or Master of Arts, or Master of Social Science or been admitted to the status thereof, *or*

(c) been awarded the degree of Bachelor of Medical Science Honours, or Bachelor of Science Honours, or Bachelor of Science in Agriculture or Bachelor of Science in Engineering or been admitted to the status thereof, and been exempted by the Senate from the Master's examination.

M76 Candidates for the degree shall be required to pursue an approved qualification of study and research on a subject connected with the medical sciences.

M77 Candidates for the degree shall further comply with all the provisions of Common Rules D1 to D14 inclusive.

M78 Candidates who after eight semesters of full time and ten semesters part-time study have not completed the requirements for the degree may be refused permission to renew their registration.

M79 An accepted thesis subsequently published in whatever form shall bear the inscription:

" Thesis approved for the degree of
Doctor of Philosophy in the Faculty of Medicine
in the University of Natal ".

POSTGRADUATE DIPLOMA IN MATERNAL AND CHILD HEALTH

M80 The Diploma shall be open to Medical Practitioners who have been registered with the Health Professions Council for at least two years and six months.

M81 A candidate shall submit evidence of:

(a) having held an obstetrics post (after registration), approved by the Head of Department of Obstetrics & Gynaecology, in a full-time capacity for a period of six months in addition to the six months post-registration experience required before entry in the course.

(b) having had post-registration part-time paediatric experience of not less than 18 months, *or*
having held a paediatric post approved by the Head of the Department of Paediatrics & Child Health, Obstetrics & Gynaecology, Community Health and Educational Techniques over a period of not less than 18 months.
The paediatric experience and the course of instruction may run concurrently.

M82 The examination shall comprise:

PART I:

16 assignments covering <u>all</u> areas of the syllabus. The assignments will consist of appropriate field exercises or problem solving exercises. At least half the assignments in each area shall be completed by the end of the 2nd semester of training and submitted within four weeks of the completion of that semester. The remainder of the assignments shall be submitted at least two months prior to Part II of the examination.

PART II:

(i) Two three hour written assessments, *or*
One three hour written assessment and one two hour MCQ assessment.
Assessments will include questions on Obstetrics and Gynaecology, Paediatrics and Community Health.

(ii) Clinical assessments of Paediatric, Obstetric and Gynaecological patients.

(iii) Oral assessments in Paediatrics, Obstetrics and Gynaecology, Community Health and Educational Techniques.

PART I will contribute 50 per cent to the final mark.
PART II will contribute 50 per cent to the final mark.

M83 Candidates who fail the examination may be granted a supplementary examination.

M84 The Diploma may be awarded with distinction.

POSTGRADUATE DIPLOMA IN OCCUPATIONAL HEALTH
Department of Community Health

M85 Candidates for the Diploma in Occupational Health shall have a degree from a recognised university and be practising occupational health at a service, research or academic level for at least one year.

M86 The curriculum for the diploma shall extend over a two year period of part-time academic tuition.

M87 Candidates shall complete such practical work, research projects and examinations as may be prescribed for the diploma.

SYLLABUSES

DP Requirements are published in an addendum to the calendar

All syllabus requirements are approved and directed by the Board of the Faculty of Health Sciences and Senate.

Notes

1. The name of each course is followed by a computer code of 7 symbols. The first 3 are letters representing the Department offering the course, while the 4th is a number which indicates the level of the course; third-year standard (3), fourth-year standard (4), fifth-year standard (5), sixth-year standard (6). The eighth symbol is either the letter Y, designating a course of a year's duration, or a number 1 or 2, which indicates that the course is offered in either the first or second semester.
2. In the bracket after the computer code, the approximate number of lectures, practical sessions, tutorials and seminars as may be applicable to the course are given followed by the duration of each course in weeks. The letters in this section have the following meanings:

L	-	Number of lectures (45 minute units)
T	-	Number of tutorials (45 minute units)
S	-	Number of seminars (45 minute units)
P	-	Number of hours engaged in practical work.
C	-	Number of hours engaged in clinical training.
W	-	Number of weeks of teaching time, excluding examination and private study time.
CP.	-	Credit Points

3. DP - Duly performed certificate.

(4th yr 16L-2W)
(5th yr 2P-2W)

Anaesthetics

Undergraduate exposure in Anaesthetics takes place in the fifth year of study. A series of introductory lectures is given to students. In the fifth year students are divided into small groups each of which spends two weeks in the operating theatres receiving basic instruction in the practical administration of anaesthetics. During these two weeks students are also taught and examined on Basic Life Support.

Assessment/Examination:

At the end of two weeks the student's performance will be assessed and a mark (1/3rd of the total) allocated to the case and ICU reports. There will be an OSCE examination at the end of two weeks. The OSCE mark will form 33 percent of the final end of year anaesthetic mark. At the end of the year a 45 minute MCQ paper with 30 questions will be given. Therefore the year's aggregate will consist of 66 marks derived from the two-week block and OSCE plus the MCQ examination at the end of the year.

The top five students will be given a supplementary oral on a voluntary basis to determine if any student should be awarded the South African Society of Anaesthesiologists medal.

Students who produce an unsatisfactory performance will be given a supplementary oral to determine whether such a student should spend an additional week in the operating theatres during the December vacation.

Anatomical Pathology MAP3ANY **(150L-48T-18S-126P-36W-56CP)**

The course in Anatomical Pathology includes instruction in both general and systemic pathology during the third year of study and comprises lectures, post mortem demonstrations and/or post mortem seminars, tutorials and Applied Pathology (museum demonstrations and macroscopic and microscopic computer based learning.

The final examination in Anatomical Pathology will be written at the end of the third year (sixth semester).

Assessment:

Class test marks are included in third year final examination marks. Zero mark will be recorded in case of failure to write unless an acceptable medical certificate is presented.

The DP requirement is attendance at 80% of weekly tutorials.

Behavioural and Social Science 1 MBH2BE1 **(20L-20W-0CP)**

The second year course in Behavioural and Social Science provides an introduction to basic psychological concepts and the human development cycle. Emphasis is placed on a biopsychosocial frame of reference. Assessments within this course contribute to the year mark of MBH3B1 in the third year of study.

Behavioural and Social Science 2 MBH3BE1 **(40L-20W-16CP)**

Prerequisite: Behavioural and Social Science 1 MBEH2BE1

The third year course in Behavioural and Social Science delves extensively into the human development cycle, highlighting the practical ramifications of particular stages of development. Thereafter the student is engaged in a study of human behaviour in illness and the relationship between doctor and patient. Instruction is also given in basic psychopathology and assessment of behaviour, linking the course with that in Psychiatry. The course concludes with an examination of sociological factors relevant to health and illness.

Cardiothoracic Surgery **(12L-2C-12W)**

The course of lectures is designed to demonstrate the range of investigative and surgical techniques available to the Cardiothoracic Surgeon in relation to diseases of the lung, pleura, mediastinum, oesophagus and diaphragm, in order that the student will later know what type of patient is most appropriately referred for a thoracic surgical opinion. The scope of cardiac surgery for congenital and acquired heart diseases is outlined. An overview of chest trauma is presented. The case demonstrations are held during Cardiology and Neurology blocks at Wentworth Hospital.

Chemical Pathology MCP4CHY **(56L-30T-33W-16CP)**

The course covers the basic qualitative and quantitative biochemical aberrations in a wide spectrum of clinical disorders as well as the investigations appropriate to the disorders. In addition to formal lectures, clinical tutorials relating to the disorders are given.

Amongst the areas covered are renal function, fluid and electrolyte balance, acid-base disturbances, liver function, gastro-intestinal function, metabolic disorders involving the major and minor components in metabolism and metabolic bone disorders, hypo- and hyper-endocrine function, genetic disorders, enzymology in relation to disease, diagnostic and biochemical aberrations in malignancy, perinatal obstetric and gynaecological endocrinology.

Community Health 2 MCH4COY **(22L-24T-1S-48P-3W-16CP)**

In the fourth year training is given in Community Medicine directed to urban communities. Practical epidemiological research is carried out in the community. Instruction is given in the principles of Occupational Health and practical training.

Assessment:

In-course practical work constitutes part of the University examination at the end of first year.

Prescribed Books: (Latest Editions)

Spencer, IWF	Community Health, Shuter & Shooter

Recommended: (Latest Editions)

Beaglehole R, Bonita R,	Basic Epidemiology: World Health Organisation
Brink, HIL	Statistics for Nurses, Academia
Coggon D, Rose G, Barker DJP	Epidemiology for the Uninitiated, BMJ Publishing Group 1997
Katzenellenbogen JM, Joubert G, Abdool Karim SS	Epidemiology: A manual for South Africa. Oxford University Press
Last, JM	A Dictionary of Epidemiology, OUP, 2nd edition
Tarimo E	Towards a Healthy District

Dermatology **(8L-12T- 2S-36W)**
(Fifth year) **(0L-6T-36W)**
(Sixth year)
Methods of investigation, diagnosis and treatment of all common skin diseases are covered in the course with special reference to conditions encountered in a sub-tropical environment.

Family Medicine MFM6THY/6CLY **(29T-44P-60C-6W-16CP)**
The course objectives focus on the principles of Family Medicine, the theoretical basis and the principles in action. In pursuit of these objectives, students are exposed to urban, rural and peri-urban settings, as well as a visit to hospice. Tutorials, seminars, case presentations, practical management/practice management are arranged at regular intervals during the course of the block. Guidance is provided by tutors assigned to specific modules. Students in rotation do a six week block in Family Medicine in the 6th year. Family Medicine is a promotional subject.

Forensic Medicine MFO4FMY **(14L-24S-12T-6P -35W-8CP)**
The Forensic Medicine course (lectures, seminars, tutorials/post-mortem demonstrations) is designed to cover basic forensic pathology and the medico-legal aspects of clinical medicine. Emphasis is placed on the evaluation and reporting of injuries and the causes of unnatural deaths. The approach to medico-legal investigation of death and steps in reporting and registration of death are discussed. Finally, the role of health care workers in human rights awareness including the documentation and prevention of human rights abuses is dealt with.

Medical Law & Ethics MFO5MLY **(7L-3S-5W-8CP)**
The Medical Law and Ethics course covers subjects such as the relationship between the doctor and patient; the duty to treat, consent to treatment, confidentiality, medical procedures, emergency treatment, malpractice, professional negligence, liability of persons and institutions, murder and culpable homicide, as well as legislation relating to abortion, sterilisation, child abuse, inquests, artificial insemination, blood transfusion and other human tissue issues; specific medico-legal issues such as death, dying and euthanasia, genetic manipulation and research, organ transplantation, disciplinary and other proceedings by the Medical Council, are also addressed.

General Surgery 1 MSU4SUY **(105L-30T-60W-48CP)**
Twenty weeks in Surgery comprising ten weeks in General Surgery, with the remaining ten weeks equally divided between Paediatric Surgery, Casualty, Ophthalmology, Otorhinolaryngology and Urology. Lectures in General Surgery, Ophthalmology, Otorhinolaryngology, Orthopaedics, Urology, Maxillo-Facial Surgery, Physical Medicine and Neurosurgery. Ward clerking, tutorials and demonstrations in General Surgery and instruction in Orthopaedics, Radiology and Forensic Medicine.

General Surgery 2 MSU5THY/5CLY **(L-8CP)**
A three week block comprising one week in Orthopaedics and two weeks in Anaesthetics. Lectures in General Surgery, Plastic Surgery, Paediatric Surgery and Anaesthetics.

General Surgery 3 MSU6THY/6CLY **(30T-30W-24CP)**
A six week block comprising 1 week in Orthopaedic Surgery and five weeks in General Surgery including traumatology. The student is involved in the care of patients from admission to discharge in all aspects under supervision.

Haematology 2 **(14L)**
Haematology 3 **(3S-20L)**
Haematology 4 **(4S-8L-32T)**
Haematology 5 **(1S)**
Haematology 6 **(5S-30T)**
These courses deal with the disorders of the blood, blood-forming tissue and lymphatic areas covering both diagnostic and therapeutic aspects. Instruction is by lecture, seminars, tutorials, laboratory work and clinical demonstrations.

Introduction to Clinical Methods MME3ICY **(22L-56T-24W-16CP)**
Introductory Course in physical signs and symptoms. Students rotate through the Departments of Medicine, Obstetrics and Gynaecology, Paediatrics and Surgery.

Medicine 1 MME4MEY **(24L-8S-60T-10W-24CP)**
Lectures and clinical rotation. During the clinical block students:
1. attend clinical ward rounds, intakes and outpatient clinics
2. clerk patients in the medical wards
3. have tutorials in general medicine and haematology.

Medicine 2 MME5THY/CLY **(59L-15S-36T-6W-24CP)**
Lectures and clinical rotation. During the clinical block students:
1. attend clinical ward rounds, intakes and outpatient clinics.
2. clerk patients in the medical wards.
3. have tutorials in general medicine and dermatology.

Medicine 3 MME6THY/CLY **(48T-24S-160C-6W-24CP)**

During the sixth year students function as junior interns and are full time members of the clinical team. They participate in the management of patients under supervision on ward rounds and intakes and attend tutorials in general medicine, haematology and dermatology.

Medical Microbiology MMI3MIY **(120L-25T-10P-38W-24CP)**

The Microbiology syllabus in the third year includes the following:
Basic microbiology, microbial genetics, sterilisation and disinfection, anti-microbial therapy, immunology, systematic bacteriology, virology, mycology and parasitology. Emphasis is placed on clinical, diagnostic and other medical aspects of microbiology, to provide a basis for future clinical practice and study in infectious diseases and their prevention.

Neurosurgery **(10L-10W)**

The course, done in the fifth year , includes instruction on the following aspects:
Investigation of Neurological patients, raised intracranial pressure, intracranial infections, aneurysms and vascular lesions, hydrocephalus and congenital abnormalities, cerebral tumours, lesions of the spinal cord and spinal injuries, neurosurgical operative procedures, management and treatment of head injuries.

Obstetrics & Gynaecology 1 MOG4OBY **(8L-24T-8S-68P-3W-8CP)**

Students in rotation do a three week block in Obstetrics and a block in Gynaecology in the fourth year.
During this time students will perform:

1. basic Obstetrics
2. have modules, tutorials and problem solving exercises in Obstetrics.
3. attend the outpatients clinics in Obstetrics (Antenatal Clinic and Family Planning Clinic)
4. clerk patients in Obstetrics and Gynaecology in the clinics and wards.
5. monitor patients in the labour ward.
6. attend two sessions in the Family Planning Clinic
7. attend selective operative theatre sessions.

In addition complete all procedures as stipulated in the Log Book.
Clinical examination at the end of the block includes a block assessment and an OSCE Theory examination at the end of the year.

Obstetrics & Gynaecology 2 MOG5THY/5CLY **(`18L-72T-6S-530P-12W-32CP)**

Students do a twelve week block in Obstetrics and a block in Gynaecology in rotation.
During this time students:

1. do Obstetrics and Gynaecology in their entirety.
2. have tutorials, modules and problem solving exercises in Obstetrics and Gynaecology.
3. attend clinics in Obstetrics (Antenatal Clinic) and in Gynaecology (outpatients, consultant special clinics)
4. clerk patients in Obstetrics and Gynaecology at clinics and in the wards.
5. monitor patients in the labour ward.
6. attend preselected operative theatre sessions.
7. attend a week in Community Obstetrics.

In addition complete all procedures as stipulated in the log book.

Obstetrics & Gynaecology 3 MOG6THY/6CLY **(0L-18T-0S-300P-6W-24CP)**

During the sixth year students function as Junior Interns in Obstetrics & Gynaecology for a period of one block (6 weeks). During that time they are full-time members of the clinical team in both Obstetrics and Gynaecology.
In addition complete all procedures as stipulated in the log book.
Final examination at the end of the block

Ophthalmology **(8L-8T-24C-2W)**

Formal lectures on the following:

The Acute Red Eye	(Lecture 1 and 2)
Slow Visual Loss	(Lecture 3 and 4)
Acute Visual Loss	(Lecture 5 and 6)
Abnormal Appearance	(Lecture 7)
Paediatric Conditions	(Lecture 7)
Squint and Abnormal Ocular Movements	(Lecture 8)

Attendance at Eye Out-Patients department, Eye Theatre and Ward Rounds complete the training.
DP: 80% attendance at the clinical outpatient block

Orthopaedic Surgery **(14L-16C-5W)**

Fourth Year: A series of lectures, tutorials and practical bedside demonstrations covering the field of acute orthopaedic injuries and their treatment, as well as of orthopaedic reconstructive and paediatri99c orthopaedics, including the examination and radiological diagnosis of orthopaedic conditions.

Orthopaedic Surgery **(20L-16C-6W)**

Fifth Year: A series of lectures, practicals and tutorials on important orthopaedic subjects, highlighting the common conditions and introducing the student to making practical decisions in the management of acute, traumatic and reconstructive orthopaedics.

Orthopaedic Surgery **(L0-80C-2W)**

Sixth Year: A series of practicals and tutorials, integrating the student into the practical working of the Orthopaedic Department.

Otorhinolaryngology **(10L-20C-30W)**

Tuition comprising lectures and clinical demonstrations in fourth year of study. There are 10 lectures and two weeks of intensive tutorials, seminars and clinical training.

Paediatrics 2 MPD5THY/5CLY **(12L-54T-8P-9S-9W-32CP)**

The course comprises a series of modules over a period spent in different sections of the department. The modules provide a comprehensive clinical and theoretical framework to the curative, preventive and promotive aspects of child health and disease. The system covers learning of the core subjects in this speciality such as development, nutrition, infection, neonatology and systemic disorders; particular attention is paid to community paediatrics and to an integrated approach to maternal and child health. Students are offered the opportunity of learning common childhood diseases of the ear, nose, throat,

eyes and skin. Throughout, the emphasis is on practical work at the bedside, combined with allocation of sufficient time to acquire theoretical knowledge. Regular guidance is provided by tutors. Self-learning is encouraged from beginning to the end of the course. Direct experience is gained in the paediatric wards, out-patients, neonatal nursery and other appropriate units. In addition formal lectures are given throughout the year. Students also participate in seminars in specifically chosen topics.

Paediatrics 3 MPD6THY/6CLY **(0L-6T-0S-180C-6W-24CP)**
The course consists of intensive practical training in the general Paediatric wards and the neo-natal unit, gastro unit, community orientated child care, as well as the Paediatric Out-Patient Department, supplemented by clinical tutorials. No formal lectures are given, but seminars and case presentations are arranged at regular intervals during the course of the block. Students are encouraged to undertake self learning exercises.

Pharmacology MPR3PHY **(64L-10T-36W-16CP)**
Lectures on the principles of Pharmacokinetics, Pharmacodynamics and Autonomic Pharmacology are followed by a detailed study of the use of medicines in the management (and prophylaxis) of disease states. Toxicology is also studied. Emphasis is on the safe and effective use of medicines.

Psychiatry 1 MPS4PSY **(40L-8CP)**
Lectures for the year cover introduction to psychiatry, classification, symptomatology, psychiatric syndromes (including aetiology, clinical features, assessment and management), child psychiatry, treatment methods, and the special topics of suicide and the elderly patient.
DP requirement: 80% attendance at lectures.
Assessment: Mid-year test – 30% of mark. End of year final examination – 70%
Promotion to 5th year depends on obtaining a 50% average of the above two examinations.
Supplementary examination will be a MCQ paper.

Psychiatry 2 MPS5THY/5CLY **(10L-28T-28C-6W-24CP)**
Lectures covering special topics in Psychiatry are delivered during the year. Students are required to do clinical training involving clerking of cases, attendance at ward rounds and grand rounds, and exposure to the management and treatment of psychiatric disorders within a general hospital setting. Tutorials cover material that is clinically relevant.

Psychiatry 3 MPS6THY/5CLY **(47T-C32-6W-16CP)**
This course consists of clinical training during which students are expected to clerk patients and participate in the management and treatment of cases. Training takes place in a medium-term psychiatric facility. Tutorials on applied Psychiatry and case presentations emphasising practical management are conducted.

Radiology
Fourth Year: Lectures and Tutorials throughout the year. **(8T)**
Fifth Year: Tutorials throughout the year **(20L-16T)**

Radiotherapy and Oncology
Lectures in Radiotherapy and Clinical Oncology in fifth year.

Urology **(17L-100T-4S-20P-40W)**
The course for the fourth year of study consists of lectures in Urology on the following topics:
Genito-urinary tract infection, obstructive uropathy, urological oncology, trauma of the genito-urinary tract, urinary calculi, renal failure and male sexual disorders.

Virology (Medical)
Medical Virology is presented as a component of the third year Medical Microbiology course. After an introduction which includes elementary basic Virology, the various medically important viruses are considered. Emphasis is placed on the epidemiology, pathogenesis and broad clinical features of virus infections and on their laboratory diagnosis, immunology, chemotherapy and prevention.

BACHELOR OF MEDICAL SCIENCE HONOURS

Medical Science 300
Prerequisite: Medical Science 200 or equivalent.
Medical Science 300 comprises two courses selected from:

MPH3BC1	MPH3BC2
MPH3HE1	MPH3HE2
MPH3HI1	MPH3HI2

Human Biochemistry 300
(MPH3BC1 & MPH3BC2) **(130L-26T-52P-26W-64CP)**
Prerequisite: Human Biochemistry 200
Biochemical techniques: chromatography including, ion exchange, molecular exclusion, high performance liquid and affinity chromatography; electrophoresis; centrifugation and molecular biology. Further topics will be selected at the discretion of the head of department from the following: enzymology; immunochemistry; the biochemistry of biomembranes; and specialised biochemistry of the body, e.g., muscle and exercise biochemistry, vision, selected vitamins, and inborn errors of metabolism.

Human and Experimental Physiology 300
(MPH3HE1 & MPH3HE2) **(130L-26T-52P-26W-64CP)**
Prerequisite: Human and Experimental Physiology 200
General human physiology with clinical application. Students will be expected to present several seminars and complete a short project.

Human Histology and Cellular Biology 300
(MPH3HI1 & MPH3HI2) **(130L-26T-52P-26W-64CP)**
Prerequisite: Human Histology and Cell Biology 200
A practical course organised on the basis of tutorial sessions covering various topics in histology with a paramedical bias and cellular biology supported by a suitable lecture course. There will also be a series of small projects in which students will gain practical experience in the preparation and study of

some common histological and histochemical techniques, electron microscopy (transmission and scanning) and different forms of microscopy. Other specialised techniques may also be studied depending upon staff availability.

Honours in Medical Science (MPH7MS1 & 2) **(CP)**

Prerequisite: Medical Science 300

Students will be admitted to this course only if they have demonstrated a sufficiently high standard of proficiency in their undergraduate courses. They will specialise in one of the subjects taken in the final undergraduate year and will follow an advanced course of study, which will include a common core programme together with specialist lectures, seminar presentation and a dissertation based on project work.

Statistics

Notes:

1. Basic Statistics is a 2-credit introductory statistics course intended for non-mathematical students, and it is recommended that it be taken together with Mathematics A1 (DSMA1SA1) to give a combined total of 4 credits.
2. Credit cannot be obtained for both Basic Statistics 9DSMS1BS1) and Mathematical Statistics 1 (DSMS1MS2).

University of Natal

General Prospectus

Student Rules

Faculty Handbooks Available

Faculty of Community and Development Disciplines (Durban)

Faculty of Education (Durban, Edgewood and Pietermaritzburg)

Faculty of Engineering (Durban and Pietermaritzburg)

Faculty of Human Sciences (Durban)

Faculty of Human and Management Sciences (Pietermaritzburg)

Faculty of Law (Durban and Pietermaritzburg)

Faculty of Management Studies (Durban)

Faculty of Science (Durban)

Faculty of Science and Agriculture (Pietermaritzburg)