DEPARTMENT OF CHEMICAL ENGINEERING - 2024

SURNAME:	
NAME/S:	
TITLE:	
E-MAIL ADDRESS:	

Finalist	
June 5	
November 2	
January 8	

STUDENT NUMBER								Full-time		**STUDENT SIGNATURE:**	**APPROVED BY:**
								Part-time			

Year of Study		

Date of Registration				
Year	M	M	D	D

Modules already passed:

CANDIDATES WITH A BSc(ENG) / BEng DEGREE											**CANDIDATES WITH A BSc Natural Sciences / BTech**										
X↓		**Study Direction Code**									**X↓**		**Study Direction Code**								
	BEng (Hons) Chemical Engineering	1	2	2	4	0	0	2	1			BSc (Hons)(Appl.Sci.)(Chemical Technology)	1	2	2	4	3	0	1	5
	BEng (Hons) Control Engineering	1	2	2	4	0	2	3	1		N/A	BSc (Hons)(Appl.Sci.)(Control)	1	2	2	4	3	0	1	2
	BEng (Hons) Environmental Engineering	1	2	2	4	0	2	2	1			BSc (Hons)(Appl.Sci.)(Environ. Technology)	1	2	2	4	3	0	2	5
	BEng (Hons) Water Utilization Engineering	1	2	2	4	0	1	0	1			BSc (Hons)(Appl.Sci.)(Water Utilisation)	1	2	2	4	3	0	2	9
	MEng (Chemical Engineering)	1	2	2	5	0	0	2	1			MSc (Appl. Sci.)(Chemical Technology)	1	2	2	5	3	0	1	5
	MEng (Control Engineering)	1	2	2	5	0	2	3	1											
	MEng (Environmental Engineering)	1	2	2	5	0	2	2	1			MSc (Appl. Sci.)(Environmental Technology)	1	2	2	5	3	0	2	5
	MEng (Water Utilization Engineering)	1	2	2	5	0	1	0	1			MSc (Appl. Sci.)(Water Utilisation)	1	2	2	5	3	0	2	9
	PhD (Chemical Engineering)	1	2	2	6	3	0	1	1											

BENG (HONS) CHEMICAL ENGINEERING			**BSC (HONS) (APPLIED SCIENCE)**		
X↓	**BENG (HONS) CHEMICAL ENGINEERING SPECIALISING IN CARBON, FLUORINE & POLYMER MATERIALS**		**X↓**	**BSC(HONS)(APPLIED SCIENCE) SPECIALISING IN CARBON, FLUORINE & POLYMER MATERIALS**	
Two (2) of the following modules:			Two (2) of the following modules:		
	CPW732	Polymer Materials Science and Research 732 (32 credits) (1st Semester)		CPW732	Polymer Materials Science and Research 732 (32 credits) (1st Semester)
	CMS732	Carbon Materials Science Research & Technology 732 (32 credits) (1st Semester)		CMS732	Carbon Materials Science Research & Technology 732 (32 credits) (1st Semester)
	CFT 732	Fluoro-Materials Science Research & Technology 732 (32 credits) (2nd Semester)-Not available in 2023		CFT 732	Fluoro-Materials Science Research &Technology 732 (32 credits) (2nd Semester)-Not available in 2023
Plus two (2) of the following modules:			Plus two (2) of the following modules:		
	CKO 732	Environmental Nanomaterials 732 (32 credits) (2nd semester)		CKO 732	Environmental Nanomaterials 732 (32 credits) (2nd semester)
	CPO 732	Product Design 732 (32 credits) (1st Semester)		CPO 732	Product Design 732 (32 credits) (1st Semester)
	CIR 702	Chemical Engineering 702 (32 credits) (Consult with individual lecturers)		CIR 707	Chemical Engineering 707 (32 credits) (Consult with individual lecturers)
	CYM 732	Additive Technology 732 (32 credits) (2nd Semester)		CYM 732	Additive Technology 732 (32 credits) (2nd Semester)
	CPP732	Polymer Processing 732 (32 credits) (2nd Semester)		CPP732	Polymer Processing 732 (32 credits) (2nd Semester)
	CRO 700	Research Orientation 700 (32 credits) (Consult with individual lecturers)		CRO 700	Research Orientation 700 (32 credits) (2nd semester)
X↓	**BENG (HONS) CHEMICAL ENGINEERING SPECIALISING IN ENVIRONMETAL NANOMATERIALS**		**X↓**	**BSC(HONS)(APPLIED SCIENCE) SPECIALISING IN ENVIRONMETAL NANOMATERIALS**	
	CKO 732	Environmental Nanomaterials 732 (32 credits) (2nd semester)		CKO 732	Environmental Nanomaterials 732 (32 credits) (2nd semester)
	CRO 700	Research Orientation 700 (32 credits) (2nd semester)		CRO 700	Research Orientation 700 (32 credits) (2nd semester)
	CIR 702	Chemical Engineering 702 (32 credits (2nd semester)		CIR 707	Chemical Engineering 707 (32 credits (2nd semester)
X↓	**BENG (HONS)(ENVIRONMENTAL ENGINEERING)**		**X↓**	**BSC (HONS) (APPLIED SCIENCE) SPECIALISING IN ENVIRONMENTAL TECHNOLOGY**	
	WQB 780	Water Quality Management and Research 780 (32 credits) (1st Semester)		WQB 787	Water Quality Management & Research 787 (32 credits) (1st Semester)
Plus any three (3) of the following:			Plus the following:		
	CEM 780	Principles of Environmental Engineering 780 (32 credits) (1st Semester)		CEM 787	Principles of Environmental Engineering 787 (32 credits) (1st Semester)
	CAM 780	Air Quality Control 780 (32 credits) (2nd Semester)		CAM 787	Air Quality Control 787 (32 credits) (2nd Semester)
	WAI 780	Industrial Waste Engineering 780 (32 credits(2nd Semester)		WAI 787	Industrial Waste Engineering 787 (32 credits) (2nd Semester)
	CSK 732	Separation Technology 732 (32 credits) (2nd Semester)			
X↓	**BENG (HONS) (WATER UTILIZATION ENGINEERING)**		**X↓**	**BSC (HONS) (APPLIED SCIENCE) SPECIALISING IN WATER UTILISATION**	
	WCW 780	Chemical Water Treatment 780 (32 credits) (1st Semester)		WCW 787	Chemical Water Treatment 787 (32 credits) (1st Semester)
	WQB 780	Water Quality Management and Research 780 (32 credits) (1st Semester))		WQB 787	Water Quality Management & Research 787 (32 credits) (1st Semester)
	WBW 780	Biological Water Treatment 780 (32 credits) (2nd Semester)		WBW 787	Biological Water Treatment 787 (32 credits) (2nd Semester)
Plus any one (1) of the following (provided that there are no clashes):			Plus any one (1) of the following (provided that there are no clashes):		
	WAI 780	Industrial Waste Engineering 780 (32 credits(2nd Semester)		WAI 787	Industrial Waste Engineering 787 (32 credits) (2nd Semester)
	CEM 780	Principles of Environmental Engineering 780 (32 credits) (1st Semester)		CEM 787	Principles of Environmental Engineering 787 (32 credits) (1st Semester)
	CSK 732	Separation Technology 732 (32 credits) (2nd Semester)			
	CIP 732	Process Integration 732 (32 credits) (2nd Semester) (not available in 2024)			

X↓	BENG (HONS) CHEMICAL ENGINEERING SPECIALISING IN BIOREACTION ENGINEERING Prior consultation with Prof Nicol required	
	CRH 732	Bioreaction Engineering 732 (32 credits) (2nd semester)
	CRO 700	Research Orientation 700 (32 credits) (2nd semester)
	CIR 702	Chemical Engineering 702 (32 credits) (1st / 2nd semester)
		plus another module to be discussed with Prof Nicol

X↓	BSC(HONS)(APPLIED SCIENCE) SPECIALISING IN BIOREACTION TECHNOLOGY Prior consultation with Prof Nicol required – only for BSc Science graduates	
	CRH 732	Bioreaction Engineering 732 (32 credits) (2nd semester)
	CRO 700	Research Orientation 700 (32 credits) (2nd semester)
	CIR 707	Chemical Engineering 707 (32 credits) (1st / 2nd semester)
		plus another module to be discussed with Prof Nicol

X↓	BENG (HONS) CHEMICAL ENGINEERING SPECIALISING IN PROCESS DESIGN	
Any one (1) of the following:		
	CSP 732	Process Control System Research & Development 732 (32 credits) (1st Semester)
	CRO 700	Research Orientation 700 (32 credits) (2nd semester)
Any three (3) of the following:		
	CPO 732	Product Design 732 (32 credits) (1st Semester)
	CSK 732	Separation Technology 732 (32 credits) (2nd Semester)
	CIP 732	Process Integration 732 (32 credits(2nd Semester) (not available in 2024)
	CRH 732	Bioreaction Engineering 732 (32 credits) (2nd semester) Consult with Prof Nicol
	CBP732	Bioprocessing 732 (32 credits) (1st /2nd semester) Consult with Dr Ryan Merckel

BSc (HONS) (APPLIED SCIENCE) SPECIALISING IN PROCESS TECHNOLOGY
Due to changes in the requirements by Government(HEQSF), this specialisation option is not available any more.

X↓	BENG (HONS)(CONTROL ENGINEERING)	
	CSP 732	Process Control System Research & Development 732 (32 credits) (1st Semester)
	CBT 700	Multivariable Control System Theory 700 (32 credits) (1st Semester)
	CBO 700	Multivariable Control System Design 700 (32 credits) (2nd Semester)
	CML 732	Model-based Control Laboratory 732 (32 credits) (2nd Semester)

BSc (HONS) (APPLIED SCIENCE) SPECIALISING IN CONTROL
Due to changes in the requirements by Government(HEQSF), this dpecialisation option is not available any more.

X↓	MODULES FROM OTHER DEPARTMENTS	
Fill in the Module codes & Module names of modules presented by other Departments. Modules may be chosen in consultation with the Head of Department		

X↓	MENG (CHEMICAL ENGINEERING)	
	CVD 800	Dissertation 800 (128 credits)
	MENG(WATER UTILISATION ENGINEERING	
	CVD 800	Dissertation 800 (128 credits)
	MENG (CONTROL ENGINEERING)	
	CVD 800	Dissertation 800 (128 credits)
	MENG (ENVIRONMENTAL ENGINEERING)	
	CVD 800	Dissertation 800 (128 credits)

X↓	MSc (APPLIED SCIENCE)	
	CVD 807	Dissertation 807 (128 credits)
	MSc (WATER UTILISATION)	
	CVD 807	Dissertation 807 (128 credits)
	CVD 807	Dissertation 807 (128 credits)
	MSc (ENVIRONMENTAL TECHNOLOGY)	
	CVD 807	Dissertation 807 (128 credits)

X↓	PhD (Eng)	
	CIR 990	Thesis 990 PhD (Chemical Engineering)

X↓		

Last revision: 2019-12-04