



SHORT COURSE IN WATER RESOURCE MANAGEMENT

Offered by The Division of Water and Environmental
Engineering of the University of Stellenbosch

WATER RESOURCE MANAGEMENT

DATES

25-28 MARCH 2019

PRESENTERS

Prof JA du Plessis

Mr B Wood

Dr J Cullis

Mr T Tlou

Dr K Riemann

Mr D Barrows

Mr L Dobinson

Mr De Jager

Mr A Bailey

FEES

4 Day COURSE : R9 000

US Student fee: R1 000

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OBJECTIVE

The course deals with the basic principles used in water resource development, but also provides practical tips for the more experienced practitioners, which will be demonstrated during tutorial sessions. This course will expose participants to the need for development of both surface and groundwater resources (including artificial recharge) and will use the WR2012, WRSM/PITMAN, as well as the Water Resource Yield Model, as a basis to demonstrate the available modelling techniques. Attention will also be given to the recent drought as experienced by the City of Cape Town and the impact of climate change on water resources.

OUTCOMES

A clear understanding of the management of Water Resources and the models used for planning purposes

LANGUAGE

The course will be presented in English.

ECSA CPD points = 4

COURSE ARRANGEMENTS

The fee covers course material as well as teas and lunches.

A detailed program is attached.

PLEASE REGISTER ONLINE HERE:

<https://shortcourses.sun.ac.za/application-form.html?offeringid=d015188b-65ff-e811-9a4f-0050568000ff>

REGISTRATIONS CLOSE 20 MARCH 2019

Course registration is at 08h30 and starts at 09h00 on 25 March 2019 in Room S202 of the Civil Engineering Building, University of Stellenbosch. Participants are responsible for their own accommodation.





**Four Day Short Course on
Water Resource Management
25 - 28 March 2019**

PROGRAMME				
DATE	FROM	SUBJECT	SPEAKER	INSTITUTE
25 March 2019	08h30	Registration		
	09h00	Welcome	JA du Plessis	US
	09h30	Water Security: Do we have enough water in SA?	M Muller	Consultant
	10h30	Tea		
	10h45	Managing Cape Town's Water Crisis	B Wood	CoCT
	12h00	Impact of Climate Change on Water Resources	J Cullis	Aurecon
	13h00	Lunch		
	13h30	Reconciliation Strategies: Focus on water resources	T Tlou	Tlou Consulting
	14h30	Artificial Recharged for the Cape Flats	K Riemann	Umvoto
	15h30	Tea		
	16h00	Groundwater yield assessment and management	D Barrows	GEOSS
26 March 2019	08h30	Yield, Draft, Risks and Probabilities: Concepts	L Dobinson	Aurecon
	09h30	WR90 to WR2012	A Bailey	Consultant
	10h30	Tea		
	11h00	WR2012: Overview	A Bailey	Consultant
	12h00	WRSM/Pitman: Introduction and overview	A Bailey	Consultant
	13h00	Lunch		
	13h30	WRSM/Pitman: Application and demonstration	A Bailey	Consultant
	14h30	WRSM/Pitman: Calibration / Naturalisation / Ungauged catchments	A Bailey	Consultant
	15h00	Tea		
	15h30	Development of a conjunctive use daily simulation model	E Braune / JA du Plessis	US
27 March 2019	08h30	WRYM: Introduction	G De Jager	AECOM
	09h30	WRYM: Input parameters	G De Jager	AECOM
	10h30	Tea		
	11h00	WRYM: Operating Rules and Model Configuration	G De Jager	AECOM
	12h00	WRYM: Operating Rules and Model Configuration	G De Jager	AECOM
	13h00	Lunch		
	13h30	WRYM: Historical and stochastic yield analysis	G De Jager	AECOM
	14h30	WRYM: Worked Example	G De Jager	AECOM
	15h30	Tea		
		16h00	Development of a daily flow stochastic model	JJ Hoffman / JA du Plessis
28 March 2019	08h30	WRSM/Pitman: Practical hands on tutorial with model	A Bailey	Consultant
	10h30	Tea		
	10h45	WRSM/Pitman: Practical hands on tutorial with model	A Bailey	Consultant
	12h30	WRYM: Practical hands on tutorial / demonstration with model	G de Jager	AECOM
	13h30	Lunch		
	14h00	WRYM: Practical hands on tutorial / demonstration with model	G de Jager	AECOM