

# DST-CSIR National e-Science Postgraduate Teaching and Training Platform (NEPTTP)

## MSc and MA in the field of e-Science

### Curriculum Overview

(with Wits University Course Codes included)

TEACHING Year 1 - 90 Credits <sup>1</sup>			RESEARCH Year 2 - 90 Credits <sup>2</sup>
Compulsory Topics for all e-Science streams 2 x 15 credits each	Elective Topics for MSc Stream Any 4 on offer x 15 credits each	Topics for MA Stream 2 x 30 credits each	Research Report
<b>Data Privacy and Ethics</b> COMS7055A (sem2)	<b>Adaptive Computation and Machine Learning</b> COMS7047A (sem1)	<b>Principles of Quantitative Social Research</b> SOSS7091A (sem1)	<b>Research Report: Data Science</b> COMS7061A (sem1&2)  <i>Domain specific research project conducted at Home institution supervised by a Domain Expert. Supported by regularised seminars and/or workshops, and/or boot camps, as required.</i>
	<b>Data Visualisation and Exploration</b> COMS7056A (sem2)		
	<b>Large Scale Computing Systems and Scientific Programming</b> COMS7057A (sem1)		
<b>Research Methods and Capstone Project in Data Science</b> COMS7060A (sem1&2)	<b>Large Scale Optimisation for Data Science</b> COMS7059A (sem2)	<b>Advanced Topics in Quantitative Social Research</b> SOSS7092A (sem2)	
	<b>Mathematical Foundations of Data Science</b> COMS7058A (sem2)		
	<b>Statistical Foundations of Data Science</b> COMS7063A (sem1)		
<b>Special Topics in Data Science</b> COMS7062A (sem1)			

COMS = School of Computer Science and Applied Mathematics, Faculty of Science, Wits University  
 SOSS = School of Social Sciences, Faculty of Humanities, Wits University



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Students will be able to register for these courses at the following institutions:

Degree	2018	2019*	2020*
MSc in the field of e-Science	NWU UP Wits	NWU UP Wits	NWU UP Wits
MA in the field of e-Science	Wits	Wits	Wits

\* More partnering institutions will offer these courses in future.

All coursework teaching in the first year will take place at the Consortium's Teaching Hub (Wits University) no matter which institution the student is registered at. The student will then undertake their research report at their Home Institution.

Full bursaries (tuition, accommodation, monthly stipend, and computer allocation) are available for eligible students on this course. Bursary priority will be given to South African citizens and South African permanent residents.

More information about the DST-CSIR NEPTTP is available at [www.escience.ac.za](http://www.escience.ac.za)

Wits University applications are open until **31 October 2017**.

