

M.Sc. in Computing  
Course Short Code  
MCM  
Course Year  
1  
Course Offering: 01

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## **M.Sc. in Computing, Year 1, Full-Time**

### **\*\*\*\*IMPORTANT MESSAGE\*\*\*\***

**The purpose of this information sheet is to allow you view all modules connected to the Qualification, optional and core. You should print this sheet out and then continue to the next step where your registration will take place.**

**It is your responsibility to ensure that you register correctly**

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Below is the registration information in relation to MSc in Computing

**\*\*MAJORS WILL RUN SUBJECT TO DEMAND\*\***

You must Major in only one of the following 4 areas, you cannot change your choice of Major at a later stage:

1. The MSc in Computing (Major in Secure Software Engineering)
2. The MSc in Computing (Major in Artificial Intelligence)
3. The MSc in Computing (Major in Data Analytics)
4. The MSc in Computing (Major in Natural Language Processing)

## **MAJOR IN SECURE SOFTWARE ENGINEERING**

<b>Major Code</b>	<b>Major Description</b>	<b>Major Details</b>
<b>SUAB</b>	<i>MCM-Secure Software Eng</i>	<i>MAJOR IN SECURE SOFTWARE ENGINEERING</i>

### Core Modules

<b>Module Code</b>	<b>Module Title</b>	<b>Module Credits</b>	<b>Semester</b>
CSC1131	<i>Professional &amp; Research Practice</i>	7.5	Semester 1
CSC1132	<i>Cryptography &amp; Number Theory</i>	7.5	Semester 1
CSC1135	<i>Secure Programming</i>	7.5	Semester 1
CSC1148	<i>Blockchain: Basics &amp; Applications</i>	7.5	Semester 1
CSC1134	<i>Network Security</i>	7.5	Semester 2
CSC1136	<i>Formal Programming</i>	7.5	Semester 2
CSC1137	<i>Software Process Quality</i>	7.5	Semester 2
CSC1141	<i>Concurrent Programming</i>	7.5	Semester 2
CSC1152	<i>Practicum (Secure Software Engineering Practicum)</i>	30	Semester 1, 2 & 3

### MAJOR IN ARTIFICIAL INTELLIGENCE

<b>Major Code</b>	<b>Major Description</b>	<b>Major Details</b>
<b>EYFV</b>	<i>MCM-Artificial Intel</i>	<i>MAJOR IN ARTIFICIAL INTELLIGENCE</i>

### Core Modules

<b>Module Code</b>	<b>Module Title</b>	<b>Module Credits</b>	<b>Semester</b>
CSC1131	<i>Professional &amp; Research Practice</i>	7.5	Semester 1
CSC1140	<i>Statistical Data Analysis</i>	7.5	Semester 1
CSC1143	<i>Data Management &amp; Visualisation</i>	7.5	Semester 1
CSC1147	<i>Foundations of Artificial Intelligence</i>	7.5	Semester 1
CSC1138	<i>Artificial Intelligence, Information &amp; Information Seeking</i>	7.5	Semester 2
CSC1144	<i>Data Analytics &amp; Data Mining</i>	7.5	Semester 2
CSC1145	<i>Machine Learning</i>	7.5	Semester 2

CSC1149	Practicum (Artificial Intelligence)	30	Semester 1, 2 & 3
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## MAJOR IN DATA ANALYTICS

### Major\_Code Major\_Description Major\_Details

**ZHKB**      *MCM-Data Analytics MAJOR IN DATA ANALYTICS*

### Core Modules

Module Code	Module Title	Module Credits	Semester
CSC1131	Professional & Research Practice	7.5	Semester 1
CSC1140	Statistical Data Analysis	7.5	Semester 1
CSC1142	Cloud Technologies	7.5	Semester 1
CSC1143	Data Management & Visualisation	7.5	Semester 1
CSC1138	Artificial Intelligence, Information & Information Seeking	7.5	Semester 2
CSC1139	Mathematical Methods/Computational Science	7.5	Semester 2
CSC1144	Data Analytics & Data Mining	7.5	Semester 2
CSC1145	Machine Learning	7.5	Semester 2
CSC1146	Practicum (Data Analytics)	30	Semester 1, 2 & 3

## MAJOR IN NATURAL LANGUAGE PROCESSING

### Core Modules

Module Code	Module Title	Module Credits	Semester
CSC1122	Foundations of Natural Language Processing	7.5	Semester 1
CSC1123	Deep Learning for Natural Language Processing	7.5	Semester 2
CSC1124	Human Factors in NLP	7.5	Semester 1
CSC1127	Advanced Machine Learning	7.5	Semester 2
CSC1128	Introduction to Machine Learning	7.5	Semester 1

CSC1131	Professional & Research Practice	7.5	Semester 1
CSC1144	Data Analytics & Data Mining	7.5	Semester 2
CSC1126	Practicum (Natural Languages Processing)	30	Semester 1, 2 & 3

### Optional Modules

Select one of the following optional modules

<b>Module Code</b>	<b>Module Title</b>	<b>Module Credits</b>	<b>Semester</b>
<i>CSC1139</i>	<i>Mathematical Methods/Computational Science</i>	7.5	Semester 2
<i>CSC1179</i>	<i>Machine Translation</i>	7.5	Semester 2