

**STAGE 1**

Module code	Module title	Restricted	Module Credits	Term running	Exam in January or May	Coursework
COM1011	Fundamentals of Machine Learning	RESTRICTED				
COM1012	Data Science Group Project 1	RESTRICTED				
ECM1400	Programming	RESTRICTED				
ECM1407	Social and Professional issues of the Information Age	RESTRICTED				
ECM1410	Object Oriented Programming	RESTRICTED				
ECM1413	Computers and the Internet	RESTRICTED				
ECM1414	Data Structures and Algorithms	RESTRICTED				
ECM1415	Discrete Mathematics for Computer Science	RESTRICTED				
ECM1416	Computational Mathematics	RESTRICTED				
ECM1417	Web Development	RESTRICTED				

**STAGE 2**

Module code	Module title	Restricted	Module Credits	Term running	Exam in January or May	Coursework
COM2011	Machine Learning and Data Science	RESTRICTED				
<a href="#">COM2012</a>	Data Science in Society		15	TERM2	N/A	YES
COM2013	Data Science Group Project 2	RESTRICTED				
<a href="#">COM2014</a>	Computational Intelligence		15	TERM2	MAY	YES
<a href="#">ECM2414</a>	Software Development		15	TERM1	JANUARY	YES
<a href="#">ECM2418</a>	Computer Languages		15	TERM1	JANUARY	YES
<a href="#">ECM2419</a>	Database Theory and Design		15	TERM1	JANUARY	YES
<a href="#">ECM2423</a>	Artificial Intelligence and Applications		15	TERM2	MAY	YES
<a href="#">ECM2425</a>	Mobile and Ubiquitous Computing		15	TERM2	MAY	YES
<a href="#">ECM2426</a>	Network and Computer Security	Module lead will need to confirm if background is equivalent for pre-requisites	15	TERM1	JANUARY	YES
<a href="#">ECM2427</a>	Outside the Box- Computer Science Research and Applications		15	TERM2	N/A	YES
<a href="#">ECM2433</a>	The C Family		15	TERM2	MAY	YES
<a href="#">ECM2434</a>	Group Software Engineering Project		15	TERM2	N/A	YES
ECM2400	Employability and Placement Preparation for Computer Scientists	RESTRICTED				

**STAGE 3**

Module code	Module title	Restricted	Module Credits	Term running	Exam in January or May	Coursework
<a href="#">COM3021</a>	Data Science at Scale		15	TERM1	MAY	YES
COM3022	Data Science Individual Project 1	RESTRICTED				
<a href="#">COM3023</a>	Machine Learning and AI		15	TERM2	MAY	YES
<a href="#">ECM3446</a>	High Performance Computing		15	TERM2	MAY	YES
ECM3401	Individual Literature Review and Project	RESTRICTED				
<a href="#">ECM3408</a>	Enterprise Computing		15	TERM2	MAY	YES

<a href="#">ECM3412</a>	Nature Inspired Computation		15	TERM1	MAY	YES
ECM3419	Industrial Placement	<b>RESTRICTED</b>				
<a href="#">ECM3420</a>	Learning from Data		15	TERM1	MAY	YES
<a href="#">ECM3422</a>	Computability and Complexity		15	TERM1	MAY	YES
<a href="#">ECM3423</a>	Computer Graphics		15	TERM1	MAY	YES
<a href="#">ECM3428</a>	Algorithms that Changed the World		15	TERM1	MAY	YES
<b>STAGE 4</b>						
<b>Module code</b>	<b>Module title</b>	<b>Restricted</b>	<b>Module Credits</b>	<b>Term running</b>	<b>Exam in January or May</b>	<b>Coursework</b>
COMM031	Data Science MSci Group Project	<b>RESTRICTED</b>				
COMM032	Data Science Msci Individual Project	<b>RESTRICTED</b>				
<a href="#">COMM510</a>	Multi-Objective Optimisation and Decision Making		15	TERM1	JANUARY	YES
<a href="#">COMM511 (NOW MTHM506)</a>	Statistical Data Modelling		15	TERM2	N/A	YES
<a href="#">COMM512</a>	Introduction to City Science		15	TERM1	N/A	YES
<a href="#">COMM513</a>	Human Dynamics		15	TBC	TBC	TBC
COMM514	Research Project	<b>RESTRICTED</b>				
ECMM409	Nature-Inspired Computation		15	TERM1		
ECMM410	Research Methodology	<b>RESTRICTED (assessments run across terms)</b>				
<a href="#">ECMM422</a>	Machine Learning		15	TERM2	N/A	YES
<a href="#">ECMM423</a>	Evolutionary Computation & Optimisation		15	TERM2	N/A	YES
<a href="#">ECMM424</a>	Computer Modelling and Simulation		15	TERM1	MAY	YES
<a href="#">ECMM426</a>	Computer Vision		15	TERM2	MAY ELE QUIZ	YES
ECMM427	Group Development Project	<b>RESTRICTED</b>				
ECMM428	Individual Research Project	<b>RESTRICTED</b>				
ECMM432	Data in Business and Society	<b>RESTRICTED</b>				
ECMM433	Project 1	<b>RESTRICTED</b>		-		
ECMM435	Project 2	<b>RESTRICTED</b>		-		
ECMM440	High Performance Computing and Data Architectures	<b>RESTRICTED</b>				
ECMM441	Machine Vision	<b>RESTRICTED</b>				
ECMM442	Information Security	<b>RESTRICTED</b>				
<a href="#">ECMM443</a>	Introduction to Data Science		15	TERM1	CLASS TEST- IN TERM 1	YES
<a href="#">ECMM444</a>	Fundamentals of Data Science		15	TERM1	N/A	YES
<a href="#">ECMM445</a>	Learning from Data		15	TERM1	MAY	YES
<a href="#">ECMM447</a>	Social Networks and Text Analysis		15	TERM2	N/A	YES
<a href="#">ECMM450</a>	Stochastic Processes		15	TERM2	MAY	YES
ECMM451	Data Science Research Project	<b>RESTRICTED</b>				
ECMM452	Data Science Business Project	<b>RESTRICTED</b>				
ECMM453	Computer Science Research Project	<b>RESTRICTED</b>				
ECMM454	Computer Science Business Project	<b>RESTRICTED</b>				
ECMM455	Introduction to Data Science (Professional)	<b>RESTRICTED</b>				

ECMM456	Fundamentals of Data Science (Professional)	RESTRICTED				
ECMM457	Learning From Data (Professional)	RESTRICTED				
ECMM458	Machine Learning (Professional)	RESTRICTED				
ECMM459	Statistical Modelling	RESTRICTED				
<a href="#">ECMM461</a>	High Performance Computing		15	TERM2	N/A	YES
<a href="#">ECMM462</a>	Fundamentals of Security		15	TERM1	MAY	YES
<a href="#">ECMM463</a>	Building Secure and Trustworthy Systems		15	TERM1	MAY	YES
<a href="#">ECMM464</a>	Security Assessment and Validation		15	TERM2	MAY	YES
ECMM465	Cyber Security Analytics Research Project	RESTRICTED				
ECMM466	Social Networks and Text Analysis (Professional)	RESTRICTED				
<b><u>Degree Apprenticeship modules (None permitted for inbound)</u></b>						
<b><u>STAGE 1</u></b>						
ECM1418	Business Organisation	RESTRICTED				
ECM1419	Interpersonal and Foundation Skills	RESTRICTED				
ECM1420	Information and Data	RESTRICTED				
ECM1421	System Development 1	RESTRICTED				
ECM1422	Reflective Practice 1	RESTRICTED				
ECM1423	Digital Technology Infrastructure	RESTRICTED				
ECM1424	Information Security	RESTRICTED				
<b><u>STAGE 2</u></b>						
ECM2428	IT Project Management	RESTRICTED				
ECM2429	Systems Development 2	RESTRICTED				
ECM2430	Reflective Practice 2	RESTRICTED				
ECM2431	Information Systems	RESTRICTED				
ECM2432	Reflective Practice 3	RESTRICTED				
<b><u>STAGE 3</u></b>						
ECM3431	IT Law and Ethics	RESTRICTED				
ECM3432	Software Engineering 1	RESTRICTED				
ECM3433	Data Analysis 1	RESTRICTED				
ECM3434	Business Analysis 1	RESTRICTED				
ECM3435	IT Consulting 1	RESTRICTED				
ECM3436	Network Engineering 1	RESTRICTED				
ECM3437	Cyber Security 1	RESTRICTED				
ECM3438	Synoptic Project	RESTRICTED				
ECM3439	Independent Study	RESTRICTED				
ECM3440	Software Engineering 2	RESTRICTED				
ECM3441	Data Analysis 2	RESTRICTED				
ECM3442	Business Analysis 2	RESTRICTED				
ECM3443	IT Consulting 2	RESTRICTED				
ECM3445	Cyber Security 2	RESTRICTED				

<b>STAGE 4</b>						
COMM420DAJ	Professional Practice 1	<b>RESTRICTED</b>				
COMM421DA	Professional Practice 2	<b>RESTRICTED</b>				
COMM421DAJ	Professional Practice 2	<b>RESTRICTED</b>				
COMM422DA	Research Scientist: End Point Assessment	<b>RESTRICTED</b>				
COMM422DAJ	Research Scientist: End Point Assessment	<b>RESTRICTED</b>				
COMM423DA	Work-based Project	<b>RESTRICTED</b>				
COMM424DA	Individual Research Project	<b>RESTRICTED</b>				