

Modules highlighted in GREEN are
100% Continuous Assessment

Module Catalogue 2019-2020

Semester 1 - Fall
2 - Spring
0 - year-long

School Name	Module Code	Module Title	Qual. Code	Study Period	Credit	Semester	CA%	NOTES
COMPUTING	CA103	Computer Systems	ECSA	X	5	1	25	
COMPUTING	CA113	Business Applications	ECSA	X	5	2	100	
COMPUTING	CA115	Digital Innovation Management & Enterprise	ECSA	X	5	2	100	
COMPUTING	CA121	Data Analysis and Visualisation	ECSA	X	5	2	40	
COMPUTING	CA168	Digital World Exam Element	ECSA	X	5	1	0	
COMPUTING	CA1681	Digital World CA Element	ECSA	X	5	1	100	
COMPUTING	CA169	Networks & Internet	ECSA	X	5	2	50	
COMPUTING	CA170	Introduction to Operating Systems	ECSA	X	5	1	30	
COMPUTING	CA172	Problem-solving, Creativity & Critical Thinking	ECSA	X	5	1	50	
COMPUTING	CA200	Quantitative Analysis for Business Decisions	ECSA	X	5	1	25	
COMPUTING	CA208	Logic	ECSA	X	5	1	50	
COMPUTING	CA214	Systems Analysis	ECSA	X	5	1	50	
COMPUTING	CA216	Operating Systems	ECSA	X	5	2	60	
COMPUTING	CA222	Enterprise Information Systems	ECSA	X	5	1	100	
COMPUTING	CA226	Advanced Computer Architectures	ECSA	X	5	2	40	
COMPUTING	CA227B	Business Database Management II	ECSA	X	5	2	25	
COMPUTING	CA267	Software Testing	ECSA	X	5	2	25	
COMPUTING	CA268	Computer Programming 3 (Data Struct. & Alg.)	ECSA	X	5	1	30	
COMPUTING	CA296	Compt. Archit. & Assembly Level Programming	ECSA	X	10	1	40	
COMPUTING	CA304	Computer Networks 2	ECSA	X	5	1	25	
COMPUTING	CA314	OO Analysis and Design	ECSA	X	5	1	25	
COMPUTING	CA318	Advanced Algorithms and A.I. Search	ECSA	X	5	1	25	
COMPUTING	CA320	Computability and Complexity	ECSA	X	5	1	25	
COMPUTING	CA341	Comparative Programming Languages	ECSA	X	5	1	30	
COMPUTING	CA348	Business Information Management	ECSA	X	5	1	50	
COMPUTING	CA349	IT Architecture	ECSA	X	5	1	20	

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COMPUTING	CA357	User Interface and Completion	ECSA	X	5	1	100	
COMPUTING	CA358	Fundamentals of Software Testing	ECSA	X	5	1	25	
COMPUTING	CA360	Communication Skills	ECSA	X	5	2	100	
COMPUTING	CA377	Programming Fundamentals (Project)	ECSA	X	5	1	100	
COMPUTING	CA392	Project Management	ECSA	X	5	1	25	
COMPUTING	CA4003	Compiler Construction	ECSA	X	8	1	30	
COMPUTING	CA4004	Soft. Eng.:Process,Principles & Methods (C)	ECSA	X	8	2	30	
COMPUTING	CA4006	Concurrent and Distributed Programming	ECSA	X	8	2	30	
COMPUTING	CA4007	Computer Graphics and Image Processing	ECSA	X	8	2	30	
COMPUTING	CA4009	Search Technologies	ECSA	X	8	1	30	
COMPUTING	CA4010	Data Warehousing & Data Mining	ECSA	X	8	1	25	
COMPUTING	CA4011	Operations Research	ECSA	X	8	2	30	
COMPUTING	CA4012	Statistical Machine Translation	ECSA	X	8	2	30	
COMPUTING	CA4101	Enterprise Architecture (C)	ECSA	X	8	1	30	
COMPUTING	CA4102	High-Tech. Innovation & Entrepreneurship (C)	ECSA	X	8	1	100	
COMPUTING	CA4103	Service and Supply Chain Management	ECSA	X	8	2	30	
COMPUTING	CA4105	Mechanics of Search & Social Media Strategies	ECSA	X	8	1	50	
COMPUTING	CA4106	Cloud Computing	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA640	Professional & Research Practice	ECSA	X	8	1	50	Masters Level Students Only
COMPUTING	CA642	Cryptography & Number Theory	ECSA	X	8	1	25	Masters Level Students Only
COMPUTING	CA643	Forensic Computing	ECSA	X	8	2	50	Masters Level Students Only
COMPUTING	CA644	System Software	ECSA	X	8	1	25	Masters Level Students Only
COMPUTING	CA645	Network Security	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA646	P-Key Cryptography & Sec Protocols	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA647	Secure Programming	ECSA	X	8	1	30	Masters Level Students Only

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COMPUTING	CA648	Formal Programming	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA650	Software Process Quality	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA659	Mathematical Methods/Computational Science	ECSA	X	8	2	0	Masters Level Students Only
COMPUTING	CA660	Statistical Data Analysis	ECSA	X	8	1	25	Masters Level Students Only
COMPUTING	CA670	Concurrent Programming	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA674	Cloud Architectures	ECSA	X	8	4	25	Masters Level Students Only. Not Available 19-20
COMPUTING	CA675	Cloud Technologies	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA682	Data Management and Visualisation	ECSA	X	8	1	25	Masters Level Students Only
COMPUTING	CA683	Data Analytics and Data Mining	ECSA	X	8	2	25	Masters Level Students Only
COMPUTING	CA684	Machine Learning	ECSA	X	8	2	25	Masters Level Students Only
ELECTRONIC ENGINEERING	EE206	Operating Systems	ECSA	X	5	1	15	
ELECTRONIC ENGINEERING	EE219	Object Oriented Programming I	ECSA	X	5	2	25	
ELECTRONIC ENGINEERING	EE224	Data Communications & Networks I	ECSA	X	5	1	25	
ELECTRONIC ENGINEERING	EE303	Mobile Robotics	ECSA	X	5	2	100	
ELECTRONIC ENGINEERING	EE314	Signals	ECSA	X	10	1	20	
ELECTRONIC ENGINEERING	EE317	Computation/Simulation	ECSA	X	5	1	60	
ELECTRONIC ENGINEERING	EE319	Electromechanical Systems	ECSA	X	5	1	30	
ELECTRONIC ENGINEERING	EE321	Data Communications & Networks II	ECSA	X	5	2	25	
ELECTRONIC ENGINEERING	EE322	Analogue Circuits & Design	ECSA	X	5	2	25	
ELECTRONIC ENGINEERING	EE323	Electromagnetism II	ECSA	X	5	1	20	
ELECTRONIC ENGINEERING	EE417	Web Application Development	ECSA	X	8	2	25	
ELECTRONIC ENGINEERING	EE419	Industrial Electronics	ECSA	X	5	1	25	
ELECTRONIC ENGINEERING	EE425	Image Processing & Analysis	ECSA	X	5	1	25	
ELECTRONIC ENGINEERING	EE452	Wireless/Mobile Communications	ECSA	X	8	1	25	
ELECTRONIC ENGINEERING	EE453	Image Processing & Analysis (Plus)	ECSA	X	8	1	25	
ELECTRONIC ENGINEERING	EE454	Optical Communications System Design	ECSA	X	8	2	20	
ELECTRONIC ENGINEERING	EE454	Optical Communications System Design	ECSA	X	8	2	20	
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study A	ECSA	X	15	2	100	
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study A	ECSA	X	15	1	100	

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ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study A	ECSA	X	15	1	100	
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study Abroad	ECSA	X	15	2	100	
ELECTRONIC ENGINEERING	EE458	Control Systems Analysis	ECSA	X	5	1	15	
ELECTRONIC ENGINEERING	EE459	Mechatronic System Simulation & Control	ECSA	X	8	2	30	
ELECTRONIC ENGINEERING	EE463	Solid State Electr. & Semiconductor Devices	ECSA	X	8	1	20	
ELECTRONIC ENGINEERING	EE497	3D Interface Technologies	ECSA	X	8	2	25	
MECHANICAL ENGINEERING	EM112	Engineering Mechanics-Statics	ECSA	X	5	2	30	
ELECTRONIC ENGINEERING	EM113	Introduction to Electronics	ECSA	X	5	1	40	
ELECTRONIC ENGINEERING	EM114	Numerical Problem Solving for Engineers	ECSA	X	5	2	100	
MECHANICAL ENGINEERING	EM115	Materials Engineering	ECSA	X	5	1	30	
MECHANICAL ENGINEERING	EM121	Engineering Mathematics I	ECSA	X	5	1	25	
MECHANICAL ENGINEERING	EM122	Engineering Mathematics II	ECSA	X	5	2	25	
ELECTRONIC ENGINEERING	EM204	Engineering Mathematics IV	ECSA	X	5	1	30	
MECHANICAL ENGINEERING	MM203	Mechanics of Machines 1	ECSA	X	5	2	20	
MECHANICAL ENGINEERING	MM211	Strength of Materials I	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM225	Design and CADD	ECSA	X	5	1	100	
MECHANICAL ENGINEERING	MM227	Thermofluid Mechanics	ECSA	X	5	2	20	
MECHANICAL ENGINEERING	MM228	Biomechanics of Human Movement	ECSA	X	5	2	30	
MECHANICAL ENGINEERING	MM232	Pneumatics & Control	ECSA	X	5	2	25	
MECHANICAL ENGINEERING	MM235	Manufacturing Processes 2	ECSA	X	5	2	20	
MECHANICAL ENGINEERING	MM252	Manufacturing Processes 1	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM281	Engineering Computation	ECSA	X	5	1	50	
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSA	X	15	2	100	
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSA	X	15	1	100	
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSA	X	15	1	100	
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSA	X	15	2	100	
MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSA	X	30	1	100	

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MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSA	X	30	2	100	
MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSA	X	30	0	100	
MECHANICAL ENGINEERING	MM306	Mechanics of Machines 2	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM307	Measurement & Signal Processing	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM309	Project & Quality Management	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM310	Product Design	ECSA	X	10	0	100	
MECHANICAL ENGINEERING	MM344	Group Project	ECSA	X	5	1	100	
MECHANICAL ENGINEERING	MM353	Fundamentals of Control	ECSA	X	5	2	20	
MECHANICAL ENGINEERING	MM354	Lean and 6 Sigma Manufacturing	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM382	Data Analytics for Engineers	ECSA	X	5	1	70	
MECHANICAL ENGINEERING	MM401	Mechanical Engineering System Simulation	ECSA	X	8	2	40	
MECHANICAL ENGINEERING	MM409	Adv Eng Materials & Manufacturing Processes	ECSA	X	5	1	40	
MECHANICAL ENGINEERING	MM413	Advanced Bio Materials & Processing Tech.	ECSA	X	5	1	30	
MECHANICAL ENGINEERING	MM421	Finite Element Analysis	ECSA	X	8	1	40	
MECHANICAL ENGINEERING	MM432	Heat Transfer and Fluid Mechanics	ECSA	X	8	1	30	
MECHANICAL ENGINEERING	MM451	Design For Manufacture and Assembly	ECSA	X	8	2	20	
MECHANICAL ENGINEERING	MM453	Manufacturing Automation	ECSA	X	5	1	20	
MECHANICAL ENGINEERING	MM459	Robotics	ECSA	X	5	2	20	
MECHANICAL ENGINEERING	MM485	Operations Research Methods	ECSA	X	8	2	30	
MECHANICAL ENGINEERING	MM498	Rehabilitation Engineering	ECSA	X	5	2	30	
MECHANICAL ENGINEERING	MM523	Product Design, Development & Value Analysis	ECSA	X	8	1	20	
MECHANICAL ENGINEERING	MM524	Advanced FEA	ECSA	X	8	2	40	
MECHANICAL ENGINEERING	MM530	Surface Engineering & Tribology	ECSA	X	8	1	20	
MECHANICAL ENGINEERING	MM532	Computational Thermo-Fluid Dynamics	ECSA	X	8	2	50	
MECHANICAL ENGINEERING	MM533	Research Practice & Methodology	ECSA	X	8	1	50	
MECHANICAL ENGINEERING	MM584	Manufacturing Systems Simulation	ECSA	X	8	1	50	

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