

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	Credit	Semester	CA%	Exam %	Quota (Group & Lect)	Notes
COMPUTING	CA103	Computer Systems	ECSAX	5.00	1	25	75		
COMPUTING	CA168	Digital World Exam Element	ECSAX	5.00	1	0	100		
COMPUTING	CA1681	Digital World CA Element	ECSAX	5.00	1	100	0		
COMPUTING	CA170	Introduction to Operating Systems	ECSAX	5.00	1	30	70		
COMPUTING	CA172	Problem-solving, Creativity & Critical Thinking	ECSAX	5.00	1	50	50		
COMPUTING	CA200	Quantitative Analysis for Business Decisions	ECSAX	5.00	1	25	75		
COMPUTING	CA208	Logic	ECSAX	5.00	1	50	50		
COMPUTING	CA214	Systems Analysis	ECSAX	5.00	1	50	50		
COMPUTING	CA222	Enterprise Information Systems	ECSAX	5.00	1	100	0		
COMPUTING	CA268	Computer Programming 3 (Data Struct. & Alg.)	ECSAX	5.00	1	30	70		
COMPUTING	CA296	Compt. Archit. & Assembly Level Programming	ECSAX	10.00	1	40	60		
COMPUTING	CA304	Computer Networks 2	ECSAX	5.00	1	25	75		
COMPUTING	CA314	OO Analysis and Design	ECSAX	5.00	1	25	75		
COMPUTING	CA318	Advanced Algorithms and A.I. Search	ECSAX	5.00	1	25	75		
COMPUTING	CA320	Computability and Complexity	ECSAX	5.00	1	25	75		
COMPUTING	CA341	Comparative Programming Languages	ECSAX	5.00	1	30	70		
COMPUTING	CA348	Business Information Management	ECSAX	5.00	1	50	50		
COMPUTING	CA349	IT Architecture	ECSAX	5.00	1	20	80		
COMPUTING	CA357	User Interface and Completion	ECSAX	5.00	1	100	0		
COMPUTING	CA358	Fundamentals of Software Testing	ECSAX	5.00	1	25	75		
COMPUTING	CA377	Programming Fundamentals (Project)	ECSAX	5.00	1	100	0		
COMPUTING	CA392	Project Management	ECSAX	5.00	1	25	75		
COMPUTING	CA4003	Compiler Construction	ECSAX	7.50	1	30	70		
COMPUTING	CA4009	Search Technologies	ECSAX	7.50	1	30	70		
COMPUTING	CA4010	Data Warehousing & Data Mining	ECSAX	7.50	1	25	75		
COMPUTING	CA4101	Enterprise Architecture (C)	ECSAX	7.50	1	30	70		
COMPUTING	CA4102	High-Tech. Innovation & Entrepreneurship (C)	ECSAX	7.50	1	100	0		

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COMPUTING	CA4105	Mechanics of Search & Social Media Strategies	ECSAX	7.50	1	50	50		
COMPUTING	CA640	Professional & Research Practice	ECSAX	7.50	1	50	50		Masters Level Students Only
COMPUTING	CA642	Cryptography & Number Theory	ECSAX	7.50	1	25	75		Masters Level Students Only
COMPUTING	CA644	System Software	ECSAX	7.50	1	25	75		Masters Level Students Only
COMPUTING	CA647	Secure Programming	ECSAX	7.50	1	30	70		Masters Level Students Only
COMPUTING	CA660	Statistical Data Analysis	ECSAX	7.50	1	25	75		Masters Level Students Only
COMPUTING	CA674	Cloud Architectures	ECSAX	7.50	1	25	75		Masters Level Students Only
COMPUTING	CA682	Data Management and Visualisation	ECSAX	7.50	1	25	75		Masters Level Students Only
COMPUTING	CA113	Business Applications	ECSAX	5.00	2	100	0		
COMPUTING	CA115	Digital Innovation Management & Enterprise	ECSAX	5.00	2	100	0		
COMPUTING	CA121	Data Analysis and Visualisation	ECSAX	5.00	2	40	60		
COMPUTING	CA169	Networks & Internet	ECSAX	5.00	2	50	50		
COMPUTING	CA216	Operating Systems	ECSAX	5.00	2	60	40		
COMPUTING	CA226	Advanced Computer Architectures	ECSAX	5.00	2	40	60		
COMPUTING	CA227B	Business Database Management II	ECSAX	5.00	2	25	75		
COMPUTING	CA267	Software Testing	ECSAX	5.00	2	25	75		
COMPUTING	CA360	Communication Skills	ECSAX	5.00	2	100	0		
COMPUTING	CA4004	Soft. Eng.:Process,Principles & Methods (C)	ECSAX	7.50	2	30	70		
COMPUTING	CA4006	Concurrent and Distributed Programming	ECSAX	7.50	2	30	70		
COMPUTING	CA4007	Computer Graphics and Image Processing	ECSAX	7.50	2	30	70		
COMPUTING	CA4011	Operations Research	ECSAX	7.50	2	30	70		
COMPUTING	CA4012	Statistical Machine Translation	ECSAX	7.50	2	30	70		
COMPUTING	CA4103	Service and Supply Chain Management	ECSAX	7.50	2	30	70		
COMPUTING	CA4106	Cloud Computing	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA643	Forensic Computing	ECSAX	7.50	2	50	50		Masters Level Students Only
COMPUTING	CA645	Network Security	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA646	P-Key Cryptography & Sec Protocols	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA648	Formal Programming	ECSAX	7.50	2	25	75		Masters Level Students Only

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COMPUTING	CA650	Software Process Quality	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA659	Mathematical Methods/Computational Science	ECSAX	7.50	2	0	100		Masters Level Students Only
COMPUTING	CA670	Concurrent Programming	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA675	Cloud Technologies	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA683	Data Analytics and Data Mining	ECSAX	7.50	2	25	75		Masters Level Students Only
COMPUTING	CA684	Machine Learning	ECSAX	7.50	2	25	75		Masters Level Students Only
ELECTRONIC ENGINEERING	EE206	Operating Systems	ECSAX	5.00	1	15	85		
ELECTRONIC ENGINEERING	EE224	Data Communications & Networks I	ECSAX	5.00	1	25	75		
ELECTRONIC ENGINEERING	EE314	Signals	ECSAX	10.00	1	20	80		
ELECTRONIC ENGINEERING	EE317	Computation/Simulation	ECSAX	5.00	1	60	40		
ELECTRONIC ENGINEERING	EE319	Electromechanical Systems	ECSAX	5.00	1	30	70		
ELECTRONIC ENGINEERING	EE323	Electromagnetism II	ECSAX	5.00	1	20	80		
ELECTRONIC ENGINEERING	EE419	Industrial Electronics	ECSAX	5.00	1	25	75		
ELECTRONIC ENGINEERING	EE425	Image Processing & Analysis	ECSAX	5.00	1	25	75		
ELECTRONIC ENGINEERING	EE452	Wireless/Mobile Communications	ECSAX	7.50	1	25	75		
ELECTRONIC ENGINEERING	EE453	Image Processing & Analysis (Plus)	ECSAX	7.50	1	25	75		
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study Abroad	ECSAX	15.00	1	100	0		
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study Abroad	ECSAX	15.00	1	100	0		
ELECTRONIC ENGINEERING	EE458	Control Systems Analysis	ECSAX	5.00	1	15	85		
ELECTRONIC ENGINEERING	EE463	Solid State Electr. & Semiconductor Devices	ECSAX	7.50	1	20	80		
ELECTRONIC ENGINEERING	EM113	Introduction to Electronics	ECSAX	5.00	1	40	60		
ELECTRONIC ENGINEERING	EM204	Engineering Mathematics IV	ECSAX	5.00	1	30	70		
ELECTRONIC ENGINEERING	EE219	Object Oriented Programming I	ECSAX	5.00	2	25	75		
ELECTRONIC ENGINEERING	EE303	Mobile Robotics	ECSAX	5.00	2	100	0		
ELECTRONIC ENGINEERING	EE321	Data Communications & Networks II	ECSAX	5.00	2	25	75		
ELECTRONIC ENGINEERING	EE322	Analogue Circuits & Design	ECSAX	5.00	2	25	75		
ELECTRONIC ENGINEERING	EE417	Web Application Development	ECSAX	7.50	2	25	75		

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ELECTRONIC ENGINEERING	EE454	Optical Communications System Design	ECSAX	7.50	2	20	80		
ELECTRONIC ENGINEERING	EE454	Optical Communications System Design	ECSAX	7.50	2	20	80		
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study Abroad	ECSAX	15.00	2	100	0		
ELECTRONIC ENGINEERING	EE457	Undergraduate Project Exchange/Study Abroad	ECSAX	15.00	2	100	0		
ELECTRONIC ENGINEERING	EE459	Mechatronic System Simulation & Control	ECSAX	7.50	2	30	70		
ELECTRONIC ENGINEERING	EE497	3D Interface Technologies	ECSAX	7.50	2	25	75		
ELECTRONIC ENGINEERING	EM114	Numerical Problem Solving for Engineers	ECSAX	5.00	2	100	0		
MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSAX	30.00	0	100	0		
MECHANICAL ENGINEERING	MM310	Product Design	ECSAX	10.00	0	100	0		
MECHANICAL ENGINEERING	EM115	Materials Engineering	ECSAX	5.00	1	30	70		
MECHANICAL ENGINEERING	EM121	Engineering Mathematics I	ECSAX	5.00	1	25	75		
MECHANICAL ENGINEERING	MM211	Strength of Materials I	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM225	Design and CADD	ECSAX	5.00	1	100	0		
MECHANICAL ENGINEERING	MM252	Manufacturing Processes 1	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM281	Engineering Computation	ECSAX	5.00	1	50	50		
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSAX	15.00	1	100	0		
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSAX	15.00	1	100	0		
MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSAX	30.00	1	100	0		
MECHANICAL ENGINEERING	MM306	Mechanics of Machines 2	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM307	Measurement & Signal Processing	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM309	Project & Quality Management	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM344	Group Project	ECSAX	5.00	1	100	0		
MECHANICAL ENGINEERING	MM354	Lean and 6 Sigma Manufacturing	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM382	Data Analytics for Engineers	ECSAX	5.00	1	70	30		
MECHANICAL ENGINEERING	MM409	Adv Eng Materials & Manufacturing Processes	ECSAX	5.00	1	40	60		
MECHANICAL ENGINEERING	MM413	Advanced Bio Materials & Processing Tech.	ECSAX	5.00	1	30	70		
MECHANICAL ENGINEERING	MM421	Finite Element Analysis	ECSAX	7.50	1	40	60		
MECHANICAL ENGINEERING	MM432	Heat Transfer and Fluid Mechanics	ECSAX	7.50	1	30	70		

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MECHANICAL ENGINEERING	MM453	Manufacturing Automation	ECSAX	5.00	1	20	80		
MECHANICAL ENGINEERING	MM523	Product Design, Development & Value Analysis	ECSAX	7.50	1	20	80		
MECHANICAL ENGINEERING	MM530	Surface Engineering & Tribology	ECSAX	7.50	1	20	80		
MECHANICAL ENGINEERING	MM533	Research Practice & Methodology	ECSAX	7.50	1	50	50		
MECHANICAL ENGINEERING	MM584	Manufacturing Systems Simulation	ECSAX	7.50	1	50	50		
MECHANICAL ENGINEERING	EM112	Engineering Mechanics-Statics	ECSAX	5.00	2	30	70		
MECHANICAL ENGINEERING	EM122	Engineering Mathematics II	ECSAX	5.00	2	25	75		
MECHANICAL ENGINEERING	MM203	Mechanics of Machines 1	ECSAX	5.00	2	20	80		
MECHANICAL ENGINEERING	MM227	Thermofluid Mechanics	ECSAX	5.00	2	20	80		
MECHANICAL ENGINEERING	MM228	Biomechanics of Human Movement	ECSAX	5.00	2	30	70		
MECHANICAL ENGINEERING	MM232	Pneumatics & Control	ECSAX	5.00	2	25	75		
MECHANICAL ENGINEERING	MM235	Manufacturing Processes 2	ECSAX	5.00	2	20	80		
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSAX	15.00	2	100	0		
MECHANICAL ENGINEERING	MM3002	Project for Exchange / Study Abroad	ECSAX	15.00	2	100	0		
MECHANICAL ENGINEERING	MM3003	Project for Exchange / Study Abroad	ECSAX	30.00	2	100	0		
MECHANICAL ENGINEERING	MM353	Fundamentals of Control	ECSAX	5.00	2	20	80		
MECHANICAL ENGINEERING	MM401	Mechanical Engineering System Simulation	ECSAX	7.50	2	40	60		
MECHANICAL ENGINEERING	MM451	Design For Manufacture and Assembly	ECSAX	7.50	2	20	80		
MECHANICAL ENGINEERING	MM459	Robotics	ECSAX	5.00	2	20	80		
MECHANICAL ENGINEERING	MM485	Operations Research Methods	ECSAX	7.50	2	30	70		
MECHANICAL ENGINEERING	MM498	Rehabilitation Engineering	ECSAX	5.00	2	30	70		
MECHANICAL ENGINEERING	MM524	Advanced FEA	ECSAX	7.50	2	40	60		
MECHANICAL ENGINEERING	MM532	Computational Thermo-Fluid Dynamics	ECSAX	7.50	2	50	50		

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