

Engineering & Computing Study Stream

Core Modules - Select up to 5 modules

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	CA318	Advanced Algorithms and A.I. Search	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	75	25
ECSAO	CA377	Programming Fundamentals (Project)	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA4003	Compiler Construction	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	70	30
ECSAO	CA4101	Enterprise Architecture (C)	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	70	30
ECSAO	CA4102	High-Tech. Innovation & Entrepreneurship (C)	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	0	100
ECSAO	CA341	Comparative Programming Languages	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA349	IT Architecture	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA675	Cloud Technologies	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	0	50
ECSAO	CA682	Data Management and Visualisation	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	75	25
ECSAO	CA2106	Advanced Web Design	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA348	Business Information Management	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA360	Communication Skills	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	0	100
ECSAO	CA320	Computability and Complexity	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	75	25
ECSAO	CA304	Computer Networks 2	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	75	25
ECSAO	CA268	Computer Programming 3 (Data Struct. & Alg.)	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	70	30
ECSAO	CA269	Computer Programming 4 (Object Oriented Prog)	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	50	50
ECSAO	CA119	Data Science and Databases	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	80	20
ECSAO	CA270	Data Warehousing and OLAP	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	80	20
ECSAO	CA229	Developing Internet Applications	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	0	100
ECSAO	CA222	Enterprise Information Systems	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA282	Introduction to DevOps	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA208	Logic	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	50	50
ECSAO	CA3109	Machine Learning	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	0	100
ECSAO	CA314	OO Analysis and Design	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	75	25
ECSAO	CA216	Operating Systems	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	70	30
ECSAO	CA216	Operating Systems	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	70	30
ECSAO	CA266	Probability & Statistics	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	80	20
ECSAO	CA279	Professional Practice for Enterprise Comp.	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	0	100
ECSAO	CA274	Programming for Data Analysis	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	0	100
ECSAO	CA177	Programming Fundamentals	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2	50	50
ECSAO	CA3000	Quantitative Analysis for Business Decisions	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	75	25
ECSAO	CA267	Software Testing	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 2		100
ECSAO	CA214	Systems Analysis	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA357	User Interface Design and Implementation	ENGINEERING AND COMPUTING	COMPUTING	5	Semester 1	0	100
ECSAO	CA4007	Computer Graphics and Image Processing	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	70	30
ECSAO	CA4006	Concurrent and Distributed Programming	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	70	30
ECSAO	CA670	Concurrent Programming	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	75	25
ECSAO	CA642	Cryptography & Number Theory	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	75	25
ECSAO	CA4005	Cryptography and Security Protocols	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	70	30
ECSAO	CA683	Data Analytics and Data Mining	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	75	25
ECSAO	CA273A	Data Processing and Visualisation	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1		100
ECSAO	CA4010	Data Warehousing & Data Mining	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	75	25

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	CA4108	Exploring Innovative & Disruptive Tech	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	0	100
ECSAO	CA648	Formal Programming	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	75	25
ECSAO	CA271A	Introduction to Machine Learning	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2		100
ECSAO	CA4109	Machine Learning	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	0	100
ECSAO	CA684	Machine Learning	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	75	25
ECSAO	CA4012	Machine Translation	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	70	30
ECSAO	CA659	Mathematical Methods/Computational Science	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	100	0
ECSAO	CA640	Professional & Research Practice	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	50	50
ECSAO	CA4009	Search Technologies	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	70	30
ECSAO	CA650	Software Process Quality	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 2	75	25
ECSAO	CA660	Statistical Data Analysis	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	75	25
ECSAO	CA644	System Software	ENGINEERING AND COMPUTING	COMPUTING	7.5	Semester 1	75	25
ECSAO	CA691	Data Governance	ENGINEERING AND COMPUTING	COMPUTING	10	Semester 2	50	50
ECSAO	EE324	Algorithms for Engineers	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	50	50
ECSAO	EE324B	Algorithms for Engineers	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	50	50
ECSAO	EE496	Computer Architecture and HDL	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	50	50
ECSAO	EE458	Control Systems Analysis	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	85	15
ECSAO	EE401	DSP - Digital Filters & DFT	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	80	20
ECSAO	EE323	Electromagnetism II	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	0	100
ECSAO	EE220	Engineering Mathematics IV	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	70	30
ECSAO	EM114	Numerical Problem Solving for Engineers	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	0	100
ECSAO	EE497	3D Interface Technologies	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25
ECSAO	EE459	Mechatronic System Simulation & Control	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	70	30
ECSAO	EE454	Optical Communications System Design	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	80	20
ECSAO	EE463	Solid State Electr. & Semiconductor Devices	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	0	100
ECSAO	EM202	Engineering Mathematics IV	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	70	30
ECSAO	EM204	Engineering Mathematics IV	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	70	30

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	EM113	Introduction to Electronics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	0	100
ECSAO	EE207	Introduction to Systems, Signals and Control	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	80	20
ECSAO	EE206	Operating Systems	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	75	25
ECSAO	EE419	Power Electronics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	75	25
ECSAO	EM402	4th Year Project-Mechatronics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	15	Full Year	0	100
ECSAO	EE322	Analogue Circuits & Design	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	75	25
ECSAO	EE219	C/C++ Programming for Engineers	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	75	25
ECSAO	EE203	Circuit Analysis Techniques	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	0	100
ECSAO	EE203B	Circuit Analysis Techniques	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	0	100
ECSAO	EE317	Computation/Simulation	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	40	60
ECSAO	EE224	Data Communications & Networks I	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	0	100
ECSAO	EE321	Data Communications & Networks II	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	75	25
ECSAO	EE201	Digital and Analogue Electronics II	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	75	25
ECSAO	EE319	Electromechanical Systems	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	0	100
ECSAO	EE202	Embedded Systems	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	75	25
ECSAO	EE425	Image Processing & Analysis	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	75	25
ECSAO	EE303	Mobile Robotics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 2	0	100
ECSAO	EE445	Bioelectronics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	70	30
ECSAO	EE544	Computer Vision	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25
ECSAO	EE513	Connected Embedded Systems	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25
ECSAO	EE508	Device Manufacturing	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	EE535	Energy System Decarbonisation	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	0	100
ECSAO	EE507	Entrepreneurship for Engineers	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	50	50
ECSAO	EE453	Image Processing & Analysis (Plus)	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	75	25
ECSAO	EE517	Network Analysis and Dimensioning	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25
ECSAO	EE562	Network Stack Implementation	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	75	25
ECSAO	EE402	OOP with Embedded Systems	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	75	25
ECSAO	EE506	Photonic Devices	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	75	25
ECSAO	EE417	Web Application Development	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	0	100
ECSAO	EE417B	Web Application Development	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	0	100
ECSAO	EE452	Wireless/Mobile Communications	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	50	50
ECSAO	EE314	Signals	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	10	Semester 1	0	100
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	15	Semester 1	0	100
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	15	Semester 2	0	100
ECSAO	EE223	Digital and Analogue Electronics I	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	5	Semester 1	75	25
ECSAO	EE445	Bioelectronics	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	70	30
ECSAO	EE454	Optical Communications System Design	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 2	80	20
ECSAO	EE452	Wireless/Mobile Communications	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	7.5	Semester 1	50	50
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	15	Semester 1	0	100
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ENGINEERING AND COMPUTING	ELECTRONIC ENGINEERING	15	Semester 2	0	100
ECSAO	MM344	Group Project	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100
ECSAO	EM115	Materials Engineering	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	MM204	Thermodynamics:Energy	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	50	50
ECSAO	MM536	Advanced Sustainable Energy Systems	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	0	100
ECSAO	MM537	Whole Life Cycle Analysis	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	0	100
ECSAO	MM413	Biomaterials & Processing Technology	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	70	30
ECSAO	MM228	Biomechanics of Human Movement	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	70	30
ECSAO	MM382	Data Analytics for Engineers	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	30	70
ECSAO	MM225	Design and Solid Modelling	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100
ECSAO	MM281	Engineering Computation	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100
ECSAO	EM121	Engineering Mathematics I	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	75	25
ECSAO	EM122	Engineering Mathematics II	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	75	25
ECSAO	EM201	Engineering Mathematics III	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100
ECSAO	MM203	Engineering Mechanics: Dynamics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	EM112	Engineering Mechanics-Statics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	0	100
ECSAO	MM227	Fluid Mechanics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	MM353	Fundamentals of Control	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	MM354	Lean and 6 Sigma Manufacturing	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	80	20
ECSAO	MM453	Manufacturing Automation	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	80	20
ECSAO	MM252	Manufacturing Processes 1	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100
ECSAO	MM235	Manufacturing Processes 2	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	MM307	Measurement & Signal Processing	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	80	20
ECSAO	MM306	Mechanics of Machines	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	0	100

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	MM211	Mechanics of Materials I	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	80	20
ECSAO	MM212	Mechanics of Materials II	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	MM232	Pneumatics and Hydraulics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	75	25
ECSAO	MM309	Project & Quality Management	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	80	20
ECSAO	MM459	Robotics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	80	20
ECSAO	MM524	Advanced FEA	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	60	40
ECSAO	MM532	Computational Thermo-Fluid Dynamics	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	50	50
ECSAO	MM451	Design For Manufacture and Assembly	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	80	20
ECSAO	MM421	Finite Element Analysis	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	60	40
ECSAO	MM584	Manufacturing Systems Simulation	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	50	50
ECSAO	MM401	Mechanical Engineering System Simulation	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	60	40
ECSAO	MM485	Operations Research Methods	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	70	30
ECSAO	MM523	Product Design, Development & Value Analysis	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	80	20
ECSAO	MM533	Research Practice & Methodology	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	50	50
ECSAO	MM530	Surface Engineering & Tribology	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	80	20
ECSAO	MM310	Product Design	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	10	Full Year	0	100
ECSAO	MM3002	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	15	Semester 1	0	100
ECSAO	MM3002	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	15	Semester 2	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Full Year	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Semester 1	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Semester 2	0	100

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	MM409	Adv Eng Materials & Manufacturing Processes	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 1	60	40
ECSAO	MM382B	Data Analytics for Engineers	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	0	100
ECSAO	MM498	Rehabilitation Engineering	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	70	30
ECSAO	MM499	Surgical Device Technology	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	5	Semester 2	70	30
ECSAO	MM535	Energy Auditing and Energy Management	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	50	50
ECSAO	MM432	Heat and Mass Transfer	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 1	70	30
ECSAO	MM555	Manufacturing Process Analysis & Tool Design	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	80	20
ECSAO	MM538	Turbomachinery	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	50	50
ECSAO	MM400	4th Year Project	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	15	Full Year	0	100
ECSAO	MM536	Advanced Sustainable Energy Systems	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	0	100
ECSAO	MM555	Manufacturing Process Analysis & Tool Design	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	80	20
ECSAO	MM537	Whole Life Cycle Analysis	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	7.5	Semester 2	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Full Year	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Semester 1	0	100
ECSAO	MM3003	Project for Exchange / Study Abroad	ENGINEERING AND COMPUTING	MECHANICAL ENGINEERING	30	Semester 2	0	100

Engineering & Computing Study Stream

Elective Modules - Select up to 1 module (optional)

Qualification Code	Module Code	Module Description	Module Owner Faculty Description	Module Owner Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAO	MG331	Innovation, Marketing & New Tech. Foresights	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	EF321	Development Economics	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	0	100
ECSAO	EF308	Econometrics and Forecasting	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	EF303	Economic Estimation and Inference	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	60	40
ECSAO	HR306	Employee Relations Procedures	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	50	50
ECSAO	AC116	Financial Accounting for Decision Making	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	80	20
ECSAO	EF306	Financial Theory	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	70	30
ECSAO	EF336	Intermediate Microeconomics 1	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	50	50
ECSAO	EF305	International Finance	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	75	25
ECSAO	EF302	Macroeconomic Policy	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	90	10
ECSAO	AC115	Management Accounting for Decision Making	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	80	20
ECSAO	MT201	Operations Management	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	0	100
ECSAO	HR301	Organisational Psychology	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	HR101	Psychology in Organisations	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	0	100
ECSAO	EF325	Public Choice	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	0	100
ECSAO	EF325	Public Choice	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	EF213	Public Finance	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	70	30
ECSAO	EF309	Risk Management	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	50	50
ECSAO	MG308	The Changing Consumer	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 1	0	100
ECSAO	MG308	The Changing Consumer	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	EF331	Topics in Applied Economics	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	5	Semester 2	0	100
ECSAO	EF218	Corporate Financial Management & Investments	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	10	Full Year	80	20
ECSAO	MG114	Marketing of High Tech Products & Innovations	DCU BUSINESS SCHOOL	DCU BUSINESS SCHOOL	10	Full Year	0	100
ECSAO	HY325	Modern Europe, 1848-1945	HUMANITIES AND SOCIAL SCIENCES	HISTORY AND GEOGRAPHY	5	Semester 1	0	100
ECSAO	FR295	French Language and Business 1	HUMANITIES AND SOCIAL SCIENCES	SALIS	10	Semester 1	0	100
ECSAO	MS223	Probability and Statistics	SCIENCE AND HEALTH	MATHEMATICAL SCIENCES	5	Semester 2	80	20
ECSAO	MS223	Probability and Statistics	SCIENCE AND HEALTH	MATHEMATICAL SCIENCES	5	Semester 2	80	20
ECSAO	MS228	Statistics II	SCIENCE AND HEALTH	MATHEMATICAL SCIENCES	7.5	Semester 2	70	30
ECSAO	PSYC103	Cognition	SCIENCE AND HEALTH	Psychology	5	Semester 1	100	0
ECSAO	PSYC203	Experimental Analysis of Behaviour	SCIENCE AND HEALTH	Psychology	5	Semester 1	50	50