

Qualification Code	Module Combination Title	Module Owner Department Description	Module Faculty Department Description	Credit	Semester	Exam %	Continuous Assessment (CA) %
ECSAX	EM113 EEG1004 Introduction to Electronics	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Full Year	0	100
ECSAX	MM3003 MEC1013 Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	30	Full Year	0	100
ECSAX	MM310 MEC1017 Product Design	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	10	Full Year	0	100
ECSAX	CA2106 CSC1019 Advanced Web Design	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA214 CSC1020 Systems Analysis	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA222 CSC1023 Enterprise Information Systems	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA266 CSC1028 Probability and Statistics	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	CA268 CSC1030 Computer Programming 3 (Data Struct. & Alg.)	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	70	30
ECSAX	CA270 CSC1032 Data Warehousing and OLAP	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	CA273A CSC1158 Data Processing and Visualisation	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	0	100
ECSAX	CA3000 CSC1041 Quantitative Analysis for Business Decisions	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	CA304 CSC1042 Computer Networks 2	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	CA314 CSC1046 OO Analysis and Design	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	CA318 CSC1047 Advanced Algorithms and A.I. Search	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	60	40
ECSAX	CA320 CSC1048 Computability and Complexity	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	CA341 CSC1055 Comparative Programming Languages	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	50	50
ECSAX	CA348 CSC1056 Business Information Management	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA349 CSC1057 IT Architecture	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA357 CSC1058 User Interface Design and Completion	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA377 CSC1096 Programming Fundamentals (Project)	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	CA4003 CSC1098 Compiler Construction	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	70	30
ECSAX	CA4005 CSC1100 Cryptography and Security Protocols	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	70	30
ECSAX	CA4009 CSC1103 Search Technologies	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	70	30
ECSAX	CA4010 CSC1104 Data Warehousing & Data Mining	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	75	25
ECSAX	CA4101 CSC1114 Enterprise Architecture (C)	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	70	30
ECSAX	CA4102 CSC1115 High-Tech. Innovation & Entrepreneurship (C)	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	0	100
ECSAX	CA4108 CSC1116 Topics in Innovative Technologies	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	0	100
ECSAX	EE203 EEN1018 Circuit Analysis Techniques	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	EE206 EEN1019 Operating Systems	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE219 EEN1021 C/C++ Programming for Engineers	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE223 EEN1022 Digital and Analogue Electronics 1	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE224 EEN1023 Data Communications & Networks I	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE314 EEN1026 Signals	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	EE317 EEN1027 Computation/Simulation	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE319 EEN1029 Electromechanical Systems	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	50	50
ECSAX	EE323 EEN1032 Electromagnetism II	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	EE402 EEN1035 OOP with Embedded Systems	Electronic Engineering	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	75	25
ECSAX	EE425 EEN1039 Image Processing & Analysis	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EE452 EEN1043 Wireless/Mobile Communications	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	75	25
ECSAX	EE453 EEN1044 Image Processing & Analysis (Plus)	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	75	25
ECSAX	EE457 EEN1046 Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	15	Semester 1	0	100
ECSAX	EE458 EEN1047 Control Systems Analysis	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	85	15
ECSAX	EE463 EEN1049 Solid State Electr. & Semiconductor Devices	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	80	20
ECSAX	EM115 EEG1006 Materials Engineering	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	EM121 EEG1007 Engineering Mathematics I	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	75	25
ECSAX	EM201 EEG1009 Engineering Mathematics III	Mechanical Engineering	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	EM204 EEG1011 Engineering Mathematics IV	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	70	30
ECSAX	MM204 MEC1001 Thermodynamics: Energy	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	50	50
ECSAX	MM211 MEC1003 Mechanics of Materials I	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	MM225 MEC1005 Design and Solid Modelling	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	MM252 MEC1010 Manufacturing Processes 1	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	MM281 MEC1011 Engineering Computation	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	MM3002 MEC1012 Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	15	Semester 1	0	100

ECSAX	MM306 MEC1014 Mechanics of Machines 2	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	40
ECSAX	MM307 MEC1015 Measurement & Signal Processing	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	#REF!	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	MM344 MEC1024 Group Project	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	0	100
ECSAX	MM354 MEC1027 Lean and 6 Sigma Manufacturing	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	MM382 MEC1029 Data Analytics for Engineers	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	30	70
ECSAX	MM409 MEC1032 Adv Eng Materials & Manufacturing Processes	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	60	40
ECSAX	MM421 MEC1039 Finite Element Analysis	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	60	40
ECSAX	MM432 MEC1040 Heat and Mass Transfer	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 1	70	30
ECSAX	MM453 MEC1043 Manufacturing Automation	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 1	80	20
ECSAX	CA208 CSC1018 Logic	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	50	50
ECSAX	CA216 CSC1021 Operating Systems	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	70	30
ECSAX	CA267 CSC1029 Software Testing	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	CA269 CSC1031 Computer Programming 4 (Object Oriented Prog)	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	50	50
ECSAX	CA271A CSC1157 Introduction to Machine Learning	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	0	100
ECSAX	CA274 CSC1033 Programming for Data Analysis	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	CA279 CSC1036 COMPUTING	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	CA360 CSC1091 Communication Skills	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	CA4006 CSC1101 Concurrent and Distributed Programming	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	50	30
ECSAX	CA4007 CSC1102 Computer Graphics and Image Processing	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	70	30
ECSAX	CA4012 CSC1105 Machine Translation	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	70	30
ECSAX	CA4109 CSC1117 Machine Learning	COMPUTING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	0	100
ECSAX	EE202 EEN1017 Embedded Systems	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	EE219 EEN1021 C/C++ Programming for Engineers	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	EE3001 EEN1024 Study Abroad Project/ Internship	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	EE303 EEN1025 Mobile Robotics	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	EE321 EEN1030 Data Communications & Networks II	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	EE322 EEN1031 Analogue Circuits & Design	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	EE417 EEN1037 Web Application Development	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	0	100
ECSAX	EE445 EEN1040 Bioelectronics	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	70	30
ECSAX	EE454 EEN1045 Optical Communications System Design	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	80	20
ECSAX	EE457 EEN1046 Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	15	Semester 2	0	100
ECSAX	EE459 EEN1048 Mechatronic System Simulation & Control	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	70	30
ECSAX	EE497 EEN1057 3D Interface Technologies	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	75	25
ECSAX	EM112 EEG1003 Engineering Mechanics-Statics	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	EM114 EEG1005 Numerical Problem Solving for Engineers	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	0	100
ECSAX	EM122 EEG1008 Engineering Mathematics II	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	EM202 EEG1010 Engineering Mathematics IV	ELECTRONIC ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	70	30
ECSAX	MM203 MEC1000 Engineering Mechanics - Dynamics	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM212 MEC1004 Mechanics of Materials II	Mechanical Engineering	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM227 MEC1006 Thermofluid Mechanics	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM228 MEC1007 Biomechanics of Human Movement	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	70	30
ECSAX	MM232 MEC1008 Pneumatics & Hydraulics	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	75	25
ECSAX	MM235 MEC1009 Manufacturing Processes 2	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM3002 MEC1012 Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	15	Semester 2	0	100
ECSAX	MM353 MEC1026 Fundamentals of Control	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM401 MEC1031 Mechanical Engineering System Simulation	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	60	40
ECSAX	MM413 MEC1034 Biomaterials & Processing Technology	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	70	30
ECSAX	MM451 MEC1042 Design For Manufacture and Assembly	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	80	20
ECSAX	MM459 MEC1044 Robotics	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	5	Semester 2	80	20
ECSAX	MM485 MEC1045 Operations Research Methods	MECHANICAL ENGINEERING	FACULTY OF ENGINEERING AND COMPUTING	7.5	Semester 2	70	30