

Semester 1	
Semester 2	
Full Year	

Qual. Code	Module Code	Module Title	School Name	Credit	Semester	Exam %	CA%	Quota-Groups & Lects
ECSAO	AC115	Management Accounting for Decision Making	DCU BUSINESS SCHOOL	5	Semester 1	80	20	
ECSAO	AC116	Financial Accounting for Decision Making	DCU BUSINESS SCHOOL	5	Semester 2	80	20	
ECSAO	AC402	Business and Professional Ethics	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	CA113	Business Applications	COMPUTING	5	Semester 2	0	100	
ECSAO	CA119	Data Science and Databases	COMPUTING	5	Semester 1	80	20	
ECSAO	CA177	Programming Fundamentals	COMPUTING	5	Semester 2	50	50	
ECSAO	CA208	Logic	COMPUTING	5	Semester 2	50	50	
ECSAO	CA2106	Advanced Web Design	COMPUTING	5	Semester 1	0	100	
ECSAO	CA214	Systems Analysis	COMPUTING	5	Semester 1	0	100	
ECSAO	CA216	Operating Systems	COMPUTING	5	Semester 2	0	100	
ECSAO	CA222	Enterprise Information Systems	COMPUTING	5	Semester 1	0	100	
ECSAO	CA229	Developing Internet Applications	COMPUTING	5	Semester 2	0	100	
ECSAO	CA266	Probability & Statistics	COMPUTING	5	Semester 1	80	20	
ECSAO	CA267	Software Testing	COMPUTING	5	Semester 2		100	
ECSAO	CA268	Computer Programming 3 (Data Struct. & Alg.)	COMPUTING	5	Semester 1	70	30	
ECSAO	CA269	Computer Programming 4 (Object Oriented Prog)	COMPUTING	5	Semester 2	50	50	
ECSAO	CA270	Data Warehousing and OLAP	COMPUTING	5	Semester 1	80	20	
ECSAO	CA271A	Introduction to Machine Learning	COMPUTING	8	Semester 2		100	
ECSAO	CA273A	Data Processing and Visualisation	COMPUTING	8	Semester 1		100	
ECSAO	CA274	Programming for Data Analysis	COMPUTING	5	Semester 2	0	100	
ECSAO	CA279	Professional Practice for Enterprise Comp.	COMPUTING	5	Semester 2	0	100	
ECSAO	CA282	Introduction to DevOps	COMPUTING	5	Semester 1	0	100	

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ECSAO	CA3000	Quantitive Analysis for Business Decisions	COMPUTING	5	Semester 1	75	25	
ECSAO	CA304	Computer Networks 2	COMPUTING	5	Semester 1	75	25	
ECSAO	CA3109	Machine Learning	COMPUTING	5	Semester 2	0	100	
ECSAO	CA314	OO Analysis and Design	COMPUTING	5	Semester 1	75	25	
ECSAO	CA318	Advanced Algorithms and A.I. Search	COMPUTING	5	Semester 1	75	25	
ECSAO	CA320	Computability and Complexity	COMPUTING	5	Semester 1	75	25	
ECSAO	CA341	Comparative Programming Languages	COMPUTING	5	Semester 1	0	100	
ECSAO	CA348	Business Information Management	COMPUTING	5	Semester 1	0	100	
ECSAO	CA349	IT Architecture	COMPUTING	5	Semester 1	0	100	
ECSAO	CA357	User Interface Design and Implementation	COMPUTING	5	Semester 1	0	100	
ECSAO	CA360	Communication Skills	COMPUTING	5	Semester 2	0	100	
ECSAO	CA377	Programming Fundamentals (Project)	COMPUTING	5	Semester 1	0	100	
ECSAO	CA4003	Compiler Construction	COMPUTING	7.5	Semester 1	70	30	
ECSAO	CA4004	Soft. Eng.:Process,Principles & Methods (C)	COMPUTING	7.5	Semester 2	0	100	
ECSAO	CA4005	Cryptography and Security Protocols	COMPUTING	7.5	Semester 1	70	30	
ECSAO	CA4006	Concurrent and Distributed Programming	COMPUTING	7.5	Semester 2	70	30	
ECSAO	CA4007	Computer Graphics and Image Processing	COMPUTING	7.5	Semester 2	70	30	
ECSAO	CA4009	Search Technologies	COMPUTING	7.5	Semester 1	70	30	
ECSAO	CA4010	Data Warehousing & Data Mining	COMPUTING	7.5	Semester 1	75	25	

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ECSAO	CA4012	Machine Translation	COMPUTING	7.5	Semester 2	70	30	
ECSAO	CA4101	Enterprise Architecture (C)	COMPUTING	7.5	Semester 2	70	30	
ECSAO	CA4102	High-Tech. Innovation & Entrepreneurship (C)	COMPUTING	7.5	Semester 1	0	100	
ECSAO	CA4108	Topics in Innovative Technologies	COMPUTING	7.5	Semester 1	0	100	
ECSAO	CA4109	Machine Learning	COMPUTING	7.5	Semester 2	0	100	
ECSAO	CA640	Professional & Research Practice	COMPUTING	7.5	Semester 1	50	50	
ECSAO	CA642	Cryptography & Number Theory	COMPUTING	7.5	Semester 1	75	25	
ECSAO	CA644	System Software	COMPUTING	7.5	Semester 1	75	25	
ECSAO	CA648	Formal Programming	COMPUTING	7.5	Semester 2	75	25	
ECSAO	CA650	Software Process Quality	COMPUTING	7.5	Semester 2	75	25	
ECSAO	CA659	Mathematical Methods/Computational Science	COMPUTING	7.5	Semester 2	100	0	
ECSAO	CA660	Statistical Data Analysis	COMPUTING	7.5	Semester 1	75	25	
ECSAO	CA670	Concurrent Programming	COMPUTING	7.5	Semester 2	75	25	
ECSAO	CA675	Cloud Technologies	COMPUTING	7.5	Semester 1	60	40	
ECSAO	CA682	Data Management and Visualisation	COMPUTING	7.5	Semester 1	75	25	
ECSAO	CA683	Data Analytics and Data Mining	COMPUTING	7.5	Semester 2	75	25	
ECSAO	CA684	Machine Learning	COMPUTING	7.5	Semester 2	75	25	
ECSAO	CA691	Data Governance	COMPUTING	10	Semester 2	50	50	
ECSAO	EE201	Digital and Analogue Electronics II	ELECTRONIC ENGINEERIN	5	Semester 2	75	25	
ECSAO	EE202	Embedded Systems	ELECTRONIC ENGINEERIN	5	Semester 2	75	25	
ECSAO	EE203	Circuit Analysis Techniques	ELECTRONIC ENGINEERIN	5	Semester 1	0	100	
ECSAO	EE206	Operating Systems	ELECTRONIC ENGINEERIN	5	Semester 2	75	25	
ECSAO	EE207	Introduction to Systems, Signals and Control	ELECTRONIC ENGINEERIN	5	Semester 2	80	20	

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ECSAO	EE219	Object Oriented Programming I	ELECTRONIC ENGINEERIN	5	Semester 1	75	25	
ECSAO	EE220	Engineering Mathematics IV	ELECTRONIC ENGINEERIN	5	Semester 2	70	30	
ECSAO	EE223	Digital and Analogue Electronics I	ELECTRONIC ENGINEERIN	5	Semester 1	75	25	
ECSAO	EE224	Data Communications & Networks I	ELECTRONIC ENGINEERIN	5	Semester 1	0	100	
ECSAO	EE303	Mobile Robotics	ELECTRONIC ENGINEERIN	5	Semester 2	0	100	
ECSAO	EE314	Signals	ELECTRONIC ENGINEERIN	10	Semester 1	0	100	
ECSAO	EE317	Computation/Simulation	ELECTRONIC ENGINEERIN	5	Semester 1	40	60	
ECSAO	EE319	Electromechanical Systems	ELECTRONIC ENGINEERIN	5	Semester 1	0	100	
ECSAO	EE321	Data Communications & Networks II	ELECTRONIC ENGINEERIN	5	Semester 2	75	25	
ECSAO	EE322	Analogue Circuits & Design	ELECTRONIC ENGINEERIN	5	Semester 2	75	25	
ECSAO	EE323	Electromagnetism II	ELECTRONIC ENGINEERIN	5	Semester 1	0	100	
ECSAO	EE324	Algorithms for Engineers	ELECTRONIC ENGINEERIN	5	Semester 2	50	50	
ECSAO	EE401	DSP - Digital Filters & DFT	ELECTRONIC ENGINEERIN	5	Semester 2	80	20	
ECSAO	EE402	OOP with Embedded Systems	ELECTRONIC ENGINEERIN	7.5	Semester 1	75	25	
ECSAO	EE417	Web Application Development	ELECTRONIC ENGINEERIN	7.5	Semester 2	0	100	
ECSAO	EE417B	Web Application Development	ELECTRONIC ENGINEERIN	8	Semester 1	0	100	
ECSAO	EE419	Power Electronics	ELECTRONIC ENGINEERIN	5	Semester 1	75	25	
ECSAO	EE425	Image Processing & Analysis	ELECTRONIC ENGINEERIN	5	Semester 1	75	25	
ECSAO	EE445	Bioelectronics	ELECTRONIC ENGINEERIN	8	Semester 2	70	30	
ECSAO	EE445	Bioelectronics	ELECTRONIC ENGINEERIN	8	Semester 2	70	30	
ECSAO	EE452	Wireless/Mobile Communications	ELECTRONIC ENGINEERIN	7.5	Semester 1	50	50	
ECSAO	EE452	Wireless/Mobile Communications	ELECTRONIC ENGINEERIN	8	Semester 1	50	50	
ECSAO	EE453	Image Processing & Analysis (Plus)	ELECTRONIC ENGINEERIN	7.5	Semester 1	75	25	
ECSAO	EE454	Optical Communications System Design	ELECTRONIC ENGINEERIN	7.5	Semester 2	80	20	

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ECSAO	EE454	Optical Communications System Design	ELECTRONIC ENGINEERIN	8	Semester 2	80	20	
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERIN	15	Semester 1	0	100	
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERIN	15	Semester 2	0	100	
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERIN	15	Semester 1	0	100	
ECSAO	EE457	Undergraduate Project Exchange/Study Abroad	ELECTRONIC ENGINEERIN	15	Semester 2	0	100	
ECSAO	EE458	Control Systems Analysis	ELECTRONIC ENGINEERIN	5	Semester 1	85	15	
ECSAO	EE459	Mechatronic System Simulation & Control	ELECTRONIC ENGINEERIN	7.5	Semester 2	70	30	
ECSAO	EE463	Solid State Electr. & Semiconductor Devices	ELECTRONIC ENGINEERIN	7.5	Semester 1	0	100	
ECSAO	EE496	Computer Architecture and HDL	ELECTRONIC ENGINEERIN	5	Semester 1	50	50	
ECSAO	EE497	3D Interface Technologies	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EE506	Photonic Devices	ELECTRONIC ENGINEERIN	7.5	Semester 1	75	25	
ECSAO	EE507	Entrepreneurship for Engineers	ELECTRONIC ENGINEERIN	7.5	Semester 2	50	50	
ECSAO	EE508	Device Manufacturing	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EE513	Connected Embedded Systems	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EE517	Network Analysis and Dimensioning	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EE535	Energy System Decarbonisation	ELECTRONIC ENGINEERIN	7.5	Semester 1	0	100	
ECSAO	EE544	Computer Vision	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EE562	Network Stack Implementation	ELECTRONIC ENGINEERIN	7.5	Semester 2	75	25	
ECSAO	EF213	Public Finance	DCU BUSINESS SCHOOL	5	Semester 2	70	30	

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ECSAO	EF218	Corporate Financial Management & Investments	DCU BUSINESS SCHOOL	10	Full Year	80	20	
ECSAO	EF302	Macroeconomic Policy	DCU BUSINESS SCHOOL	5	Semester 1	90	10	
ECSAO	EF303	Economic Estimation and Inference	DCU BUSINESS SCHOOL	5	Semester 1	60	40	
ECSAO	EF305	International Finance	DCU BUSINESS SCHOOL	5	Semester 1	75	25	
ECSAO	EF306	Financial Theory	DCU BUSINESS SCHOOL	5	Semester 1	70	30	
ECSAO	EF308	Econometrics and Forecasting	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	EF309	Risk Management	DCU BUSINESS SCHOOL	5	Semester 2	50	50	
ECSAO	EF321	Development Economics	DCU BUSINESS SCHOOL	5	Semester 1	0	100	
ECSAO	EF325	Public Choice	DCU BUSINESS SCHOOL	5	Semester 1	0	100	
ECSAO	EF325	Public Choice	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	EF331	Topics in Applied Economics	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	EF336	Intermediate Microeconomics 1	DCU BUSINESS SCHOOL	5	Semester 1	50	50	
ECSAO	EM112	Engineering Mechanics-Statics	MECHANICAL ENGINEERING	5	Semester 2	0	100	
ECSAO	EM113	Introduction to Electronics	ELECTRONIC ENGINEERING	5	Semester 1	0	100	
ECSAO	EM114	Numerical Problem Solving for Engineers	ELECTRONIC ENGINEERING	5	Semester 2	0	100	
ECSAO	EM115	Materials Engineering	MECHANICAL ENGINEERING	5	Semester 1	0	100	
ECSAO	EM121	Engineering Mathematics I	MECHANICAL ENGINEERING	5	Semester 1	75	25	
ECSAO	EM122	Engineering Mathematics II	MECHANICAL ENGINEERING	5	Semester 2	75	25	
ECSAO	EM201	Engineering Mathematics III	MECHANICAL ENGINEERING	5	Semester 1	0	100	
ECSAO	EM202	Engineering Mathematics IV	ELECTRONIC ENGINEERING	5	Semester 2	70	30	
ECSAO	EM204	Engineering Mathematics IV	ELECTRONIC ENGINEERING	5	Semester 1	70	30	
ECSAO	EM402	4th Year Project-Mechatronics	ELECTRONIC ENGINEERING	15	Full Year	0	100	
ECSAO	EN321	English Oral Skills Advanced	SALIS	5	Semester 2	0	100	60

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ECSAO	EN333	Higher Advanced English Language Skills 1	SALIS	5	Semester 1	0	100	30
ECSAO	EN371	English Language in Use	SALIS	7.5	Semester 1	0	100	60
ECSAO	HR101	Psychology in Organisations	DCU BUSINESS SCHOOL	5	Semester 1	0	100	
ECSAO	HR301	Organisational Psychology	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	HR306	Employee Relations Procedures	DCU BUSINESS SCHOOL	5	Semester 1	50	50	
ECSAO	HY211	Renaissance, Reform. & Religious Wars	HISTORY AND GEOGRAPH	5	Semester 1	0	100	
ECSAO	HY325	Modern Europe, 1848-1945	HISTORY AND GEOGRAPH	5	Semester 1	60	40	
ECSAO	MG114	Marketing of High Tech Products & Innovations	DCU BUSINESS SCHOOL	10	Full Year	0	100	
ECSAO	MG308	The Changing Consumer	DCU BUSINESS SCHOOL	5	Semester 1	0	100	
ECSAO	MG308	The Changing Consumer	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	MG329	Digital Marketing	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	MG331	Innovation, Marketing & New Tech. Foresights	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	MM203	Engineering Mechanics: Dynamics	MECHANICAL ENGINEERI	5	Semester 2	80	20	
ECSAO	MM204	Thermodynamics:Energy	MECHANICAL ENGINEERI	5	Semester 1	80	20	
ECSAO	MM211	Mechanics of Materials I	MECHANICAL ENGINEERI	5	Semester 1	80	20	
ECSAO	MM212	Mechanics of Materials II	MECHANICAL ENGINEERI	5	Semester 2	80	20	
ECSAO	MM225	Design and Solid Modelling	MECHANICAL ENGINEERI	5	Semester 1	0	100	
ECSAO	MM227	Fluid Mechanics	MECHANICAL ENGINEERI	5	Semester 2	80	20	
ECSAO	MM228	Biomechanics of Human Movement	MECHANICAL ENGINEERI	5	Semester 2	70	30	
ECSAO	MM232	Pneumatics and Hydraulics	MECHANICAL ENGINEERI	5	Semester 2	75	25	
ECSAO	MM235	Manufacturing Processes 2	MECHANICAL ENGINEERI	5	Semester 2	80	20	
ECSAO	MM252	Manufacturing Processes 1	MECHANICAL ENGINEERI	5	Semester 1	70	30	

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ECSAO	MM281	Engineering Computation	MECHANICAL ENGINEERING	5	Semester 1	0	100	
ECSAO	MM3002	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	15	Semester 1	0	100	
ECSAO	MM3002	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	15	Semester 2	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Full Year	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Semester 1	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Semester 2	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Full Year	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Semester 1	0	100	
ECSAO	MM3003	Project for Exchange / Study Abroad	MECHANICAL ENGINEERING	30	Semester 2	0	100	
ECSAO	MM306	Mechanics of Machines	MECHANICAL ENGINEERING	5	Semester 1	80	20	
ECSAO	MM307	Measurement & Signal Processing	MECHANICAL ENGINEERING	5	Semester 1	80	20	
ECSAO	MM309	Project & Quality Management	MECHANICAL ENGINEERING	5	Semester 1	0	100	
ECSAO	MM310	Product Design	MECHANICAL ENGINEERING	10	Full Year	0	100	
ECSAO	MM344	Group Project	MECHANICAL ENGINEERING	5	Semester 1	0	100	
ECSAO	MM353	Fundamentals of Control	MECHANICAL ENGINEERING	5	Semester 2	80	20	
ECSAO	MM354	Lean and 6 Sigma Manufacturing	MECHANICAL ENGINEERING	5	Semester 1	80	20	
ECSAO	MM382	Data Analytics for Engineers	MECHANICAL ENGINEERING	5	Semester 1	30	70	
ECSAO	MM382A	Data Analytics for Engineers	MECHANICAL ENGINEERING	5	Semester 2	0	100	
ECSAO	MM400	4th Year Project	MECHANICAL ENGINEERING	15	Full Year	0	100	

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ECSAO	MM401	Mechanical Engineering System Simulation	MECHANICAL ENGINEERING	7.5	Semester 2	60	40	
ECSAO	MM409	Adv Eng Materials & Manufacturing Processes	MECHANICAL ENGINEERING	5	Semester 1	60	40	
ECSAO	MM413	Biomaterials & Processing Technology	MECHANICAL ENGINEERING	5	Semester 2	70	30	
ECSAO	MM421	Finite Element Analysis	MECHANICAL ENGINEERING	7.5	Semester 1	60	40	
ECSAO	MM432	Heat and Mass Transfer	MECHANICAL ENGINEERING	7.5	Semester 1	70	30	
ECSAO	MM451	Design For Manufacture and Assembly	MECHANICAL ENGINEERING	7.5	Semester 2	80	20	
ECSAO	MM453	Manufacturing Automation	MECHANICAL ENGINEERING	5	Semester 1	80	20	
ECSAO	MM459	Robotics	MECHANICAL ENGINEERING	5	Semester 2	80	20	
ECSAO	MM485	Operations Research Methods	MECHANICAL ENGINEERING	7.5	Semester 2	70	30	
ECSAO	MM498	Rehabilitation Engineering	MECHANICAL ENGINEERING	5	Semester 2	70	30	
ECSAO	MM499	Surgical Device Technology	MECHANICAL ENGINEERING	5	Semester 2	70	30	
ECSAO	MM523	Product Design, Development & Value Analysis	MECHANICAL ENGINEERING	7.5	Semester 1	80	20	
ECSAO	MM524	Advanced FEA	MECHANICAL ENGINEERING	7.5	Semester 2	60	40	
ECSAO	MM530	Surface Engineering & Tribology	MECHANICAL ENGINEERING	7.5	Semester 1	80	20	
ECSAO	MM532	Computational Thermo-Fluid Dynamics	MECHANICAL ENGINEERING	7.5	Semester 2	50	50	
ECSAO	MM533	Research Practice & Methodology	MECHANICAL ENGINEERING	7.5	Semester 1	50	50	
ECSAO	MM535	Energy Auditing and Energy Management	MECHANICAL ENGINEERING	7.5	Semester 1	50	50	
ECSAO	MM536	Advanced Sustainable Energy Systems	MECHANICAL ENGINEERING	7.5	Semester 2	0	100	
ECSAO	MM536	Advanced Sustainable Energy Systems	MECHANICAL ENGINEERING	7.5	Semester 2	0	100	

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ECSAO	MM537	Whole Life Cycle Analysis	MECHANICAL ENGINEERING	7.5	Semester 2	0	100	
ECSAO	MM537	Whole Life Cycle Analysis	MECHANICAL ENGINEERING	7.5	Semester 2	0	100	
ECSAO	MM538	Turbomachinery	MECHANICAL ENGINEERING	7.5	Semester 2	50	50	
ECSAO	MM555	Manufacturing Process Analysis & Tool Design	MECHANICAL ENGINEERING	7.5	Semester 2	80	20	
ECSAO	MM555	Manufacturing Process Analysis & Tool Design	MECHANICAL ENGINEERING	8	Semester 2	80	20	
ECSAO	MM584	Manufacturing Systems Simulation	MECHANICAL ENGINEERING	7.5	Semester 1	50	50	
ECSAO	MS223	Probability and Statistics	MATHEMATICAL SCIENCE	5	Semester 2		100	
ECSAO	MS228	Statistics II	MATHEMATICAL SCIENCE	7.5	Semester 2	70	30	
ECSAO	MT201	Operations Management	DCU BUSINESS SCHOOL	5	Semester 1	0	100	
ECSAO	MT214	Airport Operations Management	DCU BUSINESS SCHOOL	5	Semester 2	70	30	
ECSAO	MT318	Electronic Commerce	DCU BUSINESS SCHOOL	5	Semester 2	0	100	
ECSAO	PSYC103	Cognition	Psychology	5	Semester 1	100	0	
ECSAO	PSYC203	Experimental Analysis of Behaviour	Psychology	5	Semester 1	50	50	
ECSAO	TP137	Philosophy Texts 1	THEOLOGY, PHILOSOPHY	5	Semester 2	0	100	