

UNIVERSITY OF MALTA
Faculty of Information and Communication Technology
B.Sc. (Hons) ICT Degree in Computer Science & AI with a Subsidiary Area
(for courses commencing October 2008 and later)

YEAR ONE

STUDENTS ARE REQUIRED TO REGISTER FOR ALL COMPULSORY UNITS (44 CREDITS), 4 OPTIONAL CREDITS* AND 12 CREDITS IN A SUBSIDIARY AREA FROM EITHER COMPUTER SYSTEMS ENGINEERING, OR COMPUTER INFORMATION SYSTEMS OR LINGUISTICS OR CREATIVITY INNOVATION AND ENTREPRENEURSHIP TO A TOTAL OF 60 CREDITS.

Year (This unit starts in Semester 1 and continues in Semester 2.)

Compulsory Units (All students **must** register for these units.)

CSA1023	Mathematics of Discrete Structures	6 credits
BIT1010	Historical and Social Aspects of ICT	4 credits

Semester 1

Compulsory Units (All students **must** register for these units.)

CSA1017	Data Structures and Algorithms	6 credits
CSA1019	Imperative and Object Oriented Programming	6 credits
CIS1042	Introduction to Databases and Information Management	6 credits
CCE1011	Introduction to Computer Systems	6 credits

CSAI Workload this semester: 31 credits

Semester 2

Compulsory Units (All students **must** register for these units.)

CSA1022	Principles of Structured Development	6 credits
CSA1900	Project	4 credits

CSAI Workload this semester: 15 credits

Requirement for regular progression to YEAR II:	44 credits in Compulsory Units
	12 credits in Subsidiary Area
	4 credits Optional Area

YEAR TWO

STUDENTS ARE REQUIRED TO REGISTER FOR ALL COMPULSORY UNITS (40 CREDITS), 6 ELECTIVES CREDITS, 2 OPTIONAL CREDITS AND 12 CREDITS IN A SUBSIDIARY AREA FROM EITHER COMPUTER SYSTEMS ENGINEERING OR COMPUTER INFORMATION SYSTEMS, OR LINGUISTICS OR CREATIVITY INNOVATION AND ENTREPRENEURSHIP TO TOTAL OF 60 CREDITS.

Year (This unit starts in Semester 1 and continues in Semester 2.)

Compulsory Units (All students **must** register for these units.)

[CSA2201](#) Formal languages and Compilers 6 credits

Elective Unit

[CSA2171](#) Artificial Intelligence 6 credits

Semester 1

Compulsory Units (All students **must** register for these units.)

[CSA2181](#) Software Engineering I 6 credits

[CSA2190](#) Operating Systems 6 credits

Elective Units

[CSA2203](#) Foundations of Security Engineering 6 credits

[CSA2204](#) Introduction to Web Science 6 credits

Semester 2

Compulsory Units (All students **must** register for these units.)

[CSA2018](#) Data Structures and Algorithms II 6 credits

[CSA2205](#) Systems Programming 6 credits

[CSA3800](#) Group Project 10 credits

Elective Units

[CSA2200](#) Net Centric Computing 6 credits

[CIS2060](#) Enterprise I.T. Planning I 6 credits

Requirement for regular progression to YEAR III:

40 credits in Compulsory Units
6 credits Elective Units
12 credits in Subsidiary Area
2 credits in Optional Units

YEAR THREE

STUDENTS ARE REQUIRED TO REGISTER FOR ALL COMPULSORY UNITS (24 CREDITS), 24 CREDITS FROM THE LIST OF ELECTIVES, AND 12 CREDITS IN A SUBSIDIARY AREA FROM EITHER COMPUTER SYSTEMS ENGINEERING OR COMPUTER INFORMATION SYSTEMS, OR LINGUISTICS OR CREATIVITY INNOVATION AND ENTREPRENEURSHIP TO TOTAL OF 60 CREDITS.

Year (This unit starts in Semester 1 and continues in Semester 2.)

Compulsory Unit (All students **must** register for this unit.)

[CSA3801](#) Final Year Project 20 credits

Semester 1

Elective Units

CSA3201	Concurrency, HPC, Distributed Computing	6 credits
CSA3202	Human Language Technologies	6 credits
CSA3203	Software Engineering II	6 credits
CSA3204	Formal Methods I: Formal Specification and Reasoning about Systems	6 credits
CSA3206	Theoretical Computer Science I: Computability and Complexity	6 credits
CSA3208	Agent Technologies	6 credits
CSA3209	Internet Technologies	6 credits
CSA3211	Machine Learning	6 credits
CSA3212	User – Adaptive Systems	6 credits

Semester 2

Compulsory Unit (All students **must** register for this unit.)

[BIT3010](#) Ethics and Professional Issues 4 credits

Elective Units

CSA3205	Formal Methods II: Software and Hardware Verification	6 credits
CSA3207	Theoretical Computer Science II	6 credits

Requirement for successful completion of Year III(final year):	24 credits Compulsory Units
	24 credits Elective Units
	12 credits in Subsidiary Area

Requirement for award of B.Sc. (Hons.) ICT Degree in Computer Science & AI with a subsidiary area :180 credits of which	138 in CSAI
	36 in a subsidiary area
	6 optional units

This course of study is governed by “The General Regulations for University Undergraduate Awards, 2004” and by the Bye-Laws for the award of the Bachelor of Science (Honours) in Information and Communication Technology - BSc(Hons) ICT - under the auspices of the Faculty of Information and Communication Technology