

Annex A. Curriculum

ECTS Credit Points	Credit Points	Semester					
		1	2	3	4	5	6
Mathematical and Science	20	10	5	5	0	0	0
Computer Science Fundamental	55	15	20	25	0	0	0
Computer Science Advance	65	0	5	0	30	25	0
Multi-disciplinary	10	5	0	0	0	5	0
Internship	15	0	0	0	0	0	15
Thesis	15	0	0	0	0	0	15
Total ECTS Credit Points	180	30	30	30	30	30	30

Legend			Type	Semester	Credit Points	Academic Hours	Learning Activity	Weight for GPA
Type	C = Compulsory; CE = Compulsory Elective							
Credit Points	ECTS Credit Points							
Academic Hours	Academic hours per semester							
Learning Activity	- L = Lecture - La = Laboratory course - Pw = Project work - In = Internship - E = Exercise							
Mathematical and Science					20	240		
61CSE101	Algebra		C	1	5	60	L+E (60)	1
61CSE102	Calculus		C	1	5	60	L+E (60)	1
61CSE107	Discrete Mathematics		C	2	5	60	L+E (60)	1
61CSE214	Statistics		C	3	5	60	L(45), E (15)	1
Computer Science Fundamental					55	660		
61CSE103	Programming - 1		C	1	5	60	L+E (60)	1
61CSE104	Introduction to Computer Science		C	1	5	60	L+E (60)	1
61CSE105	Computer Architectures		C	1	5	60	L+E (60)	1
61CSE108	Algorithms and Data Structures		C	2	5	60	L+E (60)	1
61CSE109	Programming - 2		C	2	5	60	L+E (60)	1
61CSE110	Theoretical Computer Science, Automata and Formal Languages		C	2	5	60	L+E (60)	1
61CSE112	Introduction to Data Science and AI		C	2	5	60	L+E (60)	1
61CSE213	Software Engineering 1		C	3	5	60	L+E (60)	1
61CSE216	Databases		C	3	5	60	L+E (60)	1
61CSE217	Computer Network -1		C	3	5	60	L+E (50), Pw(10)	1

61CSE218	Operating Systems	C	3	5	60	L+E (60)	1
Computer Science Advance				65	1020		
61CSE111	IoT and Smart Devices	C	2	5	60	L(45), Lab (15)	1
61CSE215	Object-oriented Programming with Java	C	3	5	60	L+E (60)	1
61CSE219	Software Engineering 2	C	4	5	60	L+E (60)	1
61CSE220	Distributed Systems	C	4	5	60	L+E (60)	1
61CSE221	Realtime Systems	C	4	5	60	L+E (60)	1
61CSE222	IT Security	C	4	5	60	L+E (60)	1
61CSE223	Computer Network - 2	C	4	5	60	L (30), La(30)	1
61CSE224	Programming Exercises	C	4	5	60	L+E (60)	1
61CSE325	Current Topics in Computer Science	C	5	5	60	L(30), Pw(30)	1
61CSE326	Project	C	5	10	120	L(30), E (30), Pw(60)	2
61CSE327	Compulsory elective 1	CE	5	5	60	L+E (45), Pw(15)	1
61CSE328	Compulsory elective 2	CE	5	5	60	L+E (45), Pw(15)	1
Multi-disciplinary				10	120		
61CSE106	Law and Data Protection	C	1	5	60	L+E (60)	1
61CSE329	General Study	C	5	5	60	L+E (60)	1
Internship				15	N/A		
61CSE330	Internship	C	6	15	N/A	N/A	3
Thesis		C		15	N/A		
61CSE399	Thesis	C	6	15	N/A	N/A	3
Total				180	N/A		