

Year 1			
Code	Course Name	Credits	Semester
BY1Maths11	Analysis 1	5	1
BY1Maths12	Basic Tools in Mathematics	5	1
BY1Maths13	Probability 1	3	1
BY1P11	Electricity	2	1
BY1CS11	Algorithmic and Programming	5	1
BY1E11	Microeconomics	2,5	1
BY1E12	Principle of Accounting	2,5	1
BY1T11	Project	1,5	1
BY1T12	DCIM 1	1,5	1
BY1T13	SHS	1	1
BY1T14	Photoshop/Illustrator	1	1
BY1Maths21	Analysis 2	5	2
BY1Maths22	Linear Algebra	5	2
BY1Maths23	Probability 2	3	2
BY1P21	Mechanics	2	2
BY1CS21	Algorithmic and Programming	5	2
BY1E21	Macroeconomics	2,5	2
BY1E22	Principle of Finance	2,5	2
BY1T21	Project	2,5	2
BY1T22	DCIM 2	1,5	2
BY1T23	SHS	1	2

Year 2			
Code	Course Name	Credits	Semester
BY2Maths11	Multivariable Calculus	6	1
BY2Maths12	Bilinear Algebra	4	1
BY2Maths13	Applied Mathematics for Data Science	3	1
BY2CS11	Oriented Object and Java Porgramming	5	1
BY2CS12	Relational Database	5	1
BY2T11	Project	1,5	1
BY2T12	DCIM 1	1,5	1
BY2T13	SHS	1	1
BY2T14	Unity	1	1
BY2T15	Project Management	2	1
BY2Maths21	Series	5	2
BY2DS21	Data Analysis	4	2
BY2DS22	Statistics	3	2
BY2CS21	Dynamic Web Programming	3	2
BY2CS22	Computer Networks	2,5	2
BY2CS23	Operarting Systems	2,5	2
BY2P21	Electromagnetism	5	2
BY2T21	Projet	2,5	2
BY2T22	DCIM 2	1,5	2
BY2T23	SHS	1	2

Year 3			
Code	Course Name	Credits	Semester
BY3CS11	Mobile Programming	3	1
BY3DS11	Statistics	2	1
BY3DS12	Introduction to Machine Learning and Artificial Intelligence	5	1
BY3DS13	Data and Critical Thinking	3	1
BY3DS14	Introduction to Information Theory	3	1
BY3DS15	Social Network Analysis	2	1
BY3DS16	Data Wrangling and Preprocessing	3	1
BY3DS17	Text Mining and Natural Language Processing	2	1
BY3DS18	Dimensionality Reduction and Clustering Algorithms	2	1
BY3T11	Project	1,5	1
BY3T12	DCIM	1,5	1
BY3T13	SHS	1	1
BY3T14	Adobe Premier	1	1

Year 4			
Code	Course Name	Credits	Semester
BY4Maths 11	Applied Mathematics for Data Science	3	1
BY4CS11	Language Theory	2	1
BY4CS12	NoSQL Database	3	1
BY4CS13	Complexity Decidability and Graph Theory	3	1
BY4CS14	Parallel and Distributed Processing	3	1
BY4DS11	Cloud Computing and Machine Learning	5	1
BY2DS12	Theory of Deep Learning	3	1
BY4DS13	Advanced Data Vizualisation	2	1
BY4DS14	Business Intelligence	2	1
BY4T11	Project	2,5	1
BY4T12	DCIM1	1,5	1
BY4T13	SHS	5	1
BY4CS21	Constraint Programming and Optimization	5	2
BY4DS21	Introduction to Scala	3	2
BY4DS22	Big Data Management	5	2
BY4DS23	Introduction to Complex Dynamical Systems	2	2
BY4T21	Project	3,5	2
BY4T22	DCIM 2	1,5	2