

Curriculum B-AM&TCS for cohort 2021 and earlier

First year

Course name	Q	EC	Division
Linear Structures 1	1A	5	AM
Analysis 1	1A	5	AM
Pearls of Computer Science Core	1A	11	TCS
Linear Structures 2	1B	4	AM
Analysis 2	1B	6	AM
Programming Theory & Project	1B	8	TCS
Signals and Transforms	2A	5	AM
Probability Theory AM	2A	5	AM
Network Systems Core	2A	12	TCS
Numerical Mathematics	2B	5	AM
Differential Equations	2B	5	AM
Data & Information Core	2B	10	TCS
Entire academic year:		81 EC	

Second year

Course code	Course name	Q	EC	Division	Prerequisites
202001348	Mathematical Statistics	1A	6	AM/TCS	202001344
202001349	Project Statistics	1A	2	AM	
202001030	Computer Systems Core for CS	1A	12	TCS	
202001355	Systems Theory	1B	4	AM	
202001354	Ordinary Differential Equations	1B	4	AM	202001197
202001032	Intelligent Interaction Design Core for CS/BIT	1B	12	TCS	
201600061	Introduction Mathematical Modelling	2A	1	AM	
202001360	Algorithmic Discrete Mathematics	2A	5	AM/TCS	
202001361	Languages & Machines	2A	3.5	AM/TCS	
202001362	Algebra	2A	3.5	AM/TCS	
202001363	Implementation Project on Graph Isomorphism	2A	3	AM/TCS	202001030
202200336	Markov Chains	2B	4	AM	
202200337	Stochastic Models	2B	4	AM	
202200338	Stochastic Simulation	2B	4	AM	
202200339	Project	2B	3	AM	
202001345	Project Signals & Uncertainty	2B	5	AM	
Entire academic year:		76 EC			

Third year

Course code	Course name	Q	EC	Division	Prerequisites
202001350	Analysis II	1A	5	AM	
201400365	Discrete Mathematics (M5)	1A	3	TCS	
202001373	Reflection on Mathematical Research I	1A	5	AM	
	Minor selection	1B	15	AM/TCS	Entire first year
202001049	Design Project Core	2A	15	TCS	All components of 8 quartiles, including all first year components
	Elective AM selection	2A	5	AM	
202001385	Bachelor's Assignment Double Degree	2B	15	AM/TCS	
202001380	Reflection on Mathematical Research II	2B	2	AM	
201500405	Complex Function Theory	2B	3	AM	
Entire academic year:			68 EC		