

# Curriculum B-AM&TCS for cohort 2021 and earlier

## First year

Course code	Course name	Q	EC	Division	Prerequisites
202001325	Linear Structures I	1A	6	AM	
202001190	Introduction to Mathematics + Calculus 1A	1A	4	AM/TCS	
202001022	Pearls of Computer Science Core	1A	11	TCS	
201500112	Programming Theory & Project	1B	8	TCS	202001325
202001197	Calculus 1B for CS	1B	3	AM/TCS	
202001329	Analysis I	1B	3	AM	
202001332	Project: Prooflab II	1B	2	AM	
202001330	Linear Structures II	1B	3	AM	
202001026	Network Systems Core	2A	12	TCS	
202001231	Vector Calculus EE	2A	3	AM	
202001339	Presenting a Mathematical Subject	2A	2	AM	
202001343	Signals & Transforms	2B	5	AM	201500112
202001344	Probability Theory AM	2B	5	AM/TCS	
202001028	Data & Information Core	2B	12	TCS	
Entire academic year:			79	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	202001197
202001354	Ordinary Differential Equations	1B	4	AM	
202001032	Intelligent Interaction Design Core for CS/BIT	1B	12	TCS	
201600061	Introduction Mathematical Modelling	2A	1	AM	202001030
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	
202001366	Stochastic Models	2B	5	AM	
202001367	Project: Stochastic Models	2B	1.5	AM	
202001368	Markov Chains	2B	2.5	AM	
202001369	Project: Stochastic Simulation	2B	4	AM	
202001370	Multidisciplinary Project	2B	2	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	
202001384	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		