

# Curriculum B-AM&TCS for cohort 2024

## First year

Course code	Name	EC	Division
	<i>Q1.1A</i>		
202200141	Linear Structures 1	5	AM
202200143	Analysis 1	5	AM
202400351	Computing Fundamental Pearls	4	TCS
202400352	Programming Pearls	4	TCS
202400353	Pearl's Project	3	TCS
	<i>Q1.1B</i>		
202200236	Linear Structures 2	4	AM
202400660	Analysis 2	6	AM
202400357	Object-oriented programming	8	TCS
	<i>Q1.2A</i>		
202001343	Signals and Transforms	5	AM
202001344	Probability Theory for AM	5	AM
	Network Theory and Challenges	9	TCS
	Network Systems Project	3	TCS
	<i>Q1.2B</i>		
202200241	Numerical Mathematics	5	AM
202200242	Differential Equations	5	AM
202400366	Data & Information Theory	6	TCS
202400444	Data & Information Project (for AM-TCS)	4	TCS

## Second year

Course code	Name	EC	Division
	<i>Q2.1A</i>		
202300016	Mathematical Statistics 1	7	AM
202200166	Operating Systems	6	TCS
202200167	Computer Architecture and Organisation	5	TCS
202200168	IT & Law	1	TCS
	<i>Q2.1B</i>		
202300026	Mathematical Statistics 2	5	AM
202300027	Linear Optimisation	5	AM
202200145	Artificial Intelligence & Cyber Security	6	TCS
202200146	HCI Design and Evaluation	6	TCS
	<i>Q2.2A</i>		
202001360	Algorithmic Discrete Mathematics	5	AM/TCS
202001361	Languages & Machines	3.5	AM/TCS
202001361	Algebra	3.5	AM/TCS
202001362	Implementation Project on Graph Isomorphism	3	AM/TCS
202300156	Modelling 2	4	AM
	<i>Q2.2B</i>		
202200336	Markov Chains	4	AM
202200337	Stochastic Models	4	AM
202200338	Stochastic Simulation	4	AM
202200339	Project	3	AM
202300157	Modelling 3	4	AM

### Third year

Course code	Name	EC	Division
	<i>Q3.1A</i>		
202300017	Analysis 3	5	AM
202001234	Discrete Mathematics (M5)	3	TCS
202499633	Reflection 2	3	AM
	Master orientation elective	5	AM/TCS
	<i>Q3.1B</i>		
	Minor selection <sup>a</sup>	15	AM/TCS
	<i>Q3.2A</i>		
202499631	Graph Theory	4	AM
202001048	Design Project Core	15	TCS
	<i>Q3.2B</i>		
201500405	Complex Function Theory	3	AM
202400348	Reflection 3 <sup>a</sup>	2	AM
202001385	Bachelor's Assignment Double Degree <sup>a</sup>	15	AM/TCS

<sup>a</sup>Students have the option to do Reflection 3 and the Bachelor's Assignment Double Degree in quartile 1B and move the Minor to quartile 2B.