Product Management
Track 1: Product Management
Track 2: Product Management FinTech
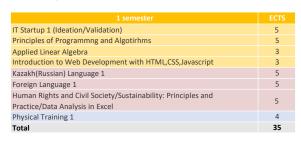Track 3: Data Science and Machine Learning
Language: Kazakh / Russian / English
Admission year: 2022
Graduation year: 2025

3 yrs

after school

Degree:
Bachelor in Information and Communication Technology in the program
"6B06105 - Product Management "

Year 1

1 semester	ECTS		2 semester	ECTS		Summer semester	ECTS
IT Startup 1 (Ideation/Validation)	5		IT Startup 2 (Project Launch,MVP,Web Project)	5		Practice 1-Creation of internal corporate projects (dual)	10
Principles of Programmng and Algotirhms	5		Object -Oriented Programming and Data Structures	3		Phylosophy	5
Applied Linear Algebra	3		Discrete Mathematical Structures	3		Culturology/Psycology	4
Introduction to Web Development with HTML,CSS,Javascript	3		Introduction to Back-End Development and Databases	5			
Kazakh(Russian) Language 1	5		Kazakh(Russian) Language 2	5			
Foreign Language 1	5		Foreign Language 2	5			
Human Rights and Civil Society/Sustainability: Principles and Practice/Data Analysis in Excel	5		Introduction to Entrepreneurship	3			
Physical Training 1	4		Physical Training 2	4			
Total	**35**		**Total**	**33**		**Total**	**19**

Year 2

3 semester	ECTS		4 semester	ECTS		Summer semester	ECTS
IT Startup 3 (Business Models,CustDev,Iteration)	5		IT Startup 4 (Mobile App Project)	5		Practice 2-Creation of internal corporate projects (dual)	10
Python for Data Analysis and Visualization	5		Front-End and Mobile Development(JS)	5		Modern History of Kazakhstan	5
Advanced Back-End Development 2 and DevOps	5		Product Sales/Marketing/Embedded Finance 2.0 /Data Mining and Machine Learning	5		Sociology/Political Science	4
Product Market Fit/Embedded Finance 1.0/Fundamentals of Machine Learning	5		Creating a Product within Digital Ecosystems/Banking as a Service/Big Data Fundamentals	5			
Leadership/Critical Thinking	3		Service Learning	3			
Foreign Language 3	5		Information Communication Technologies	5			
Entrepreneurship in Action 1	3		Entrepreneurship in Action 2	3			
Minor course 1	**5**		**Minor course 2**	**5**			
Total	**36**		**Total**	**36**		**Total**	**19**

Year 3

5 semester	ECTS		6 semester	ECTS
Product Scaling/Web 3.0,NFT/Natural Language Processing	5		**IT Startup Capstone Project (DS/ML Startup)**	**20**
Entering Foreign Markets/Super Apps/Computer Vision and Deep Learning	5		**Writing and defence of diploma project / thesis**	**12**
Design of Life	3			
Research Design	3			
Economics	3			
Marketing	3			
Management	3			
Minor course 3	**5**			
Total	**30**		**Total**	**32**

	ECTS
General module	26
AlmaU module	65
Minor	15
Profile module	102
Internship, Thesis-Project	32
	240

Total credits for 3 years of study		**240**

Track

Product Management	ECTS		Product Management FinTech	ECTS		Data Science and Machine Learning	ECTS
Product Market Fit	5		Embedded Finance 1.0	5		Fundamentals of Machine Learning	5
Product Sales / Marketing	5		Embedded Finance 2.0	5		Data Mining and Machine Learning	5
Creating a Product within Digital Ecosystems	5		Banking as a Service	5		Big Data Fundamentals	5
Product Scaling	5		Web 3.0, NFT	5		Natural Language Processing	5
Entering Foreign Markets	5		Super Apps	5		Computer Vision and Deep Learning	5
Total	**25**		**Total**	**25**		**Total**	**25**