Bachelor of Digital banking and fintech (DBF).

The digital banking and fintech (DBF) program is designed to help students develop both banking and financial technology (fintech) skills to produce professions who can handle banking management and financial technologies to meet different business objectives.

Students enrolled in the program will gain the applied finance skills to thrive in a digitally advanced workplace. They will:

- *develop an understanding of modern financial markets – from risk management and digital banking, FinTech, blockchains and crypto assets*
- *gain a solid grounding in the principles of accounting and finance, and the theories of investments*
- *explore specific aspects of accounting and econometrics*
- *develop the programming skills they will need to work in digital banking and finance*
- *learn to make informed business decisions through real-world problem-solving exercises*
- *develop and understand the analytical aspects of banking and financial markets, crypto economies and banking operations.*

Graduates of the DBF program will be able to secure jobs including:

- *FinTech Analyst*
- *Business Data Analyst*
- *Technology Risk Manager*
- *Software Developer*
- *Fintech-Banking Account Manager*

Blockchain Developer.

Level 1

Code	Course title(s)	Lectures	Tutorials	Credits	Pre-requisite(s)
Semester 1					
ECO 101	Introduction to Microeconomics	3	1	3	
MTH103	Mathematics	3	1	3	
MGT 101	Introduction to Management	3	-	3	
IST103	Fundamentals of Information Systems.	2	2	3	
COS101	Introduction to Computer Science	2	2	3	
HM 003	English language 1	2	-	2	
	Total Credits:			**17**	
Semester 2					
ECO 102	Introduction to Macroeconomics	3	1	3	
ACC 125	Financial Accounting	3	1	3	
COS 102	Introduction to programming.	2	2	3	COS 101
IST 104	System analysis and design 1	2	2	3	IST 103, COS 101
STA 103	Statistics and probability 1	3	1	3	MTH103
HM 004	English language 2	2	-	2	HM 003
	Total Credits:			**17**	

Level 2

Code	Course title(s)	Lectures	Tutorials	Credits	Pre-requisite(s)	
Semester 3						
IST 205	database systems 1	2	2	3	IST103	
STA 204	Statistics and probability 2	3	1	3	STA 103	
HM 006	Human Rights & Anticorruption.	2	-	2		
ECO 203	Money & Banking.	3	1	3	ECO 101	ECO 102
IST 206	System analysis and design 2 .	2	2	3	IST 104	
COS203	Object oriented programming.	2	2	3	COS 102	
HM 001	Russian language 1.	2	-	2		
	Total Credits:			**19**		
Semester 4						
ACC 226	Fundamentals of Managerial Accounting.	3	1	3	ACC 125	
BUA 201	Introduction to business Analytics.	3	1	3	STA 204	
IST 207	Database system 2	2	2	3	IST 205	
FIN 201	principles of finance and investment	3	1	3	ECO 203	ACC 125
HM 005	Scientific Thinking.	2	-	2		
MGT 102	Introduction to marketing.	3	-	3	MGT 101	
HM 002	Russian language 2.	2	-	2	HM 001	
	Total Credits:			**19**		

Level 3

Code	Course title(s)		Lectures	Tutorials	Credits	Pre-requisite(s)	
Semester 5							
COS 304	Data structures		2	2	3	COS 203	
STA 305	Statistical Computing.		3	1	3	COS 102	STA 204
COS 305	Operating systems.		2	2	3	COS 102	
MIS 301	Digital marketing and social media		3	1	3	MGT 102	
ECO 427	international finance and banking		3	1	3	ECO 203	
BIT 406	Data security		2	2	3	IST205	
	Total Credits:				**18**		
Semester 6							
DBF 301	Principles of digital banking and fintech		3	1	3	ECO 203	IST 103
DBF 302	valuation of companies and cash flow generating assets		3	1	3	FIN 201	
ECO 310	Econometrics		3	1	3	ECO 101	ECO 102
COS 320	Distributed systems		2	2	3	COS 304	
Elective 1	MGT 307	business ethics and corporate social responsibility	3	-	3	MGT 101	
	MGT 305	entrepreneurship and small Enterprises management	3	1	3	MGT 101	
	ECO 331	Investment theory and practice				FIN 201	
Elective 2	BIT 303	Networking & Telecommunications.	2	2	3	MTH 103	COS 101
	COS 310	Software engineering.				Cos 203	
	MIS 303	Advanced topics in information systems.				MGT 101	IST 103
	Total Credits:				**17**		

Level 4

Code	Course title(s)		Lectures	Tutorials	Credits	Pre-requisite(s)		
Semester 7								
HM 009	Scientific Research Methodology		2	-	2			
MIS 304	Financial information system		2	2	3	IST 103		
COS 421	Cryptography fundamentals		2	2	3	COS 204	STA 204	
ECO 414	Econometrics for time series		3	1	3	Eco 310		
DBF 403	Graduation project 1		3	1	3			
Elective 3	DBF 404	data analytics for accounting and finance	3	1	3	STA 305	ACC 125	ECO 427
	DBF 405	Trading strategies						
	FIN 409	Banking Management				FIN 201	ECO 203	
	ECO 415	International monetary and financial systems	3	-	3			
	Total Credits:				**18**			
Semester 8								
COS 422	blockchain and crypto assets		2	2	3	COS 421		
DBF 406	financial derivatives		3	1	3	FIN 201		
DBF 407	Graduation project 2		3	1	3			
Elective 4	FIN 314	Financial Risk Management	3	1	3	FIN 201		
	ECO 424	Business Data Forecasting						
	DBF 408	alternative investment funds				ECO 203		
Elective 5	COS 423	blockchain application	2	2	3	COS 421		
	COS 424	Database security				COS 304		
	COS 425	Distributed Computing				IST 206		
	Total Credits:				**15**			