

## Programme details (modules or units of studies) and the individual grades/marks obtained

No	Disciplines Studied	Workload in hours	Credits ECTS	Marks 5-point Scale	Marks 100-point Scale
1	Actuarial Mathematics	252	7	satisfactory	62
2	Actuarial Statistics	108	3	passed	65
3	Algebra and Geometry	180	5	good	79
4	Algorithms and Data Structures in the Python Language	216	6	excellent	92
5	Emergency Management	72	2	passed	95
6	Accounting Information Systems	108	3	good	84
7	Introduction to the Field of Major	36	1	passed	72
8	Discrete Mathematics	108	3	excellent	86
9	Differential Equations	108	3	excellent	86
10	Foreign Language	324	9	excellent	94
11	Foreign Language in a Professional Environment	180	5	excellent	98
12	Operations Research	108	3	passed	55
13	History	144	4	satisfactory	58
14	Cryptography and Distributed Registers	108	3	passed	100
15	Mathematics and Mechanical Trade Systems	108	3	passed	90
16	Mathematical Analysis	360	10	excellent	92
17	Optimization Methods	108	3	passed	100
18	Interactive Decision-Making Methodology	108	3	passed	98
19	Models in Financial and Actuarial Statistics	108	3	passed	75
20	Macroeconomic Process Modeling	144	4	excellent	87
21	Microeconomic Process Modeling	144	4	excellent	86
22	Risky Situations Modelling in Economics and Business	108	3	passed	50
23	Microsoft Excel-Based Data Processing and Modeling	144	4	excellent	88
24	Basics of Banking	108	3	passed	88
25	Basics of Business and Public Communications in Professional Activity	108	3	passed	86
26	Law	144	4	good	71
27	Bloomberg System-Based Practical Training for Financial Experts and Investors	108	3	passed	83
28	Applied Graph Theory	108	3	passed	84
29	Programming in the R Environment	180	5	excellent	89
30	Systems Analysis and the Professional Activity	108	3	passed	83
31	Database Management Systems	252	7	excellent	99
32	Stochastic Processes in Finance and Economics	108	3	passed	85
33	Stochastic Financial Mathematics	108	3	passed	61
34	Theoretical Basis of Financial Technology	108	3	passed	78
35	Probability Theory and Mathematical Statistics	324	9	excellent	89
36	Game Theory	144	4	good	79
37	Theory of Complex Networks in Economics	108	3	passed	86
38	Data Analysis Technologies and Machine Learning	288	8	good	71
39	Business Analysis Techniques	108	3	excellent	97
40	Big Data Processing Technologies	180	5	excellent	87
41	Sales Management and Sales Forecasting in Distribution Companies	108	3	passed	86
42	Physical Training	72	2	passed	100
43	Philosophy	144	4	good	71
44	Financial Mathematics	252	7	good	76
45	Financial Markets	144	4	excellent	90
46	Financial Futures Contracts	108	3	passed	79
47	Finance, Money, Lending	144	4	excellent	86
48	Functional Analysis	108	3	passed	54
49	Numerical Techniques	108	3	passed	100
50	Econometrics	288	8	excellent	91
51	Economic Political Science	108	3	passed	72

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### Course Papers

1. Testing the Hypothesis about the Independence of the Logarithmic return for Various Time Intervals with Large, Medium and Small Trading Volumes good
2. Machine Learning in Problems of Personal Identification from Image excellent
3. Electives (Term Paper) good

### Practice

- Learning Practice 6 excellent  
 Practical training and on-the-job training period (including a pre-graduation practical training period) 15 excellent

### Final State Examination

- State Examination good

### Graduation Qualification Paper

- Development of Recommender System for Social Network Users 9 good

### Total

240



Note: The total workload in the higher education system of the Russian Federation is evaluated in academic hours, one academic hour is 45 minutes, one week of full-time study is 34 hours of total workload, one ECTS credit is 36 hours of total workload.

### Grading scheme

Grade scheme				Grade distribution			
For examination with grade		For pass/fail examinations		Grades used in institution	Number of Reference Group (Number of students)	Percentage of each grade	Cumulative percentage
86-100	Excellent	50-100	Pass	Excellent	3000	42%	42%
70-85	Good	< 50	Fail	Good	2172	31%	73%
50-69	Satisfactory			Satisfactory	1930	27%	100 %
< 50	Fail			Total	7102	100%	

### Information on the functional application of qualification

#### Admission to further study

The qualification gives access to study on the Master's programme. According to the qualifications framework of the International Standard Classification of Education (ISCED) – to the second stage. According to the European Qualifications Framework (EQF) – to Level 7.

#### Professional status (if required)

This Diploma gives the right to carry out professional activities in accordance with the level of education and qualification.