

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 09.03.04 Software Engineering

Educational Programme "Software Engineering"

Faculty of Economics, Management and Business Informatics,
HSE - Perm

1 st, 2020/2021 academic year

APPROVED by
Vice Rector

ROSHCHIN Y.S.

Length of Programme: 4 years

Years of Study: 2020/2021 - 2023/2024

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 73

Number of Groups: 3

| Block Code | Course | Subject type | Department | Credits | Total Academic Hours | Contact Hours | Allocation of Contact Hours | | | | Additional Information |
|------------|---|--------------|--|-----------|----------------------|---------------|-----------------------------|------------|------------|------------|------------------------|
| | | | | | | | 1 | 2 | 3 | 4 | |
| | Degree Programme | | | 60 | 2 280 | 876 | 188 | 208 | 258 | 222 | |
| | Major | | | 49 | 1 862 | 598 | 130 | 156 | 188 | 124 | |
| | Core Professional Block (Major) | | | 46 | 1 748 | 556 | 130 | 156 | 160 | 110 | |
| | Subject Areas | | | 46 | 1 748 | 556 | 130 | 156 | 160 | 110 | |
| | Algebra | | | 8 | 304 | 100 | 50 | 50 | | | |
| 1 | Algebra | C | Department of Higher Mathematics | 8 | 304 | 100 | 50 | 50A | | | |
| | Discrete Mathematics | | | 8 | 304 | 110 | 14 | 42 | 54 | | |
| 1 | Discrete Mathematics | C | Department of Information Technologies in Business | 8 | 304 | 110 | 14 | 42 | 54A | | |
| | Mathematical Analysis | | | 8 | 304 | 100 | | | 50 | 50 | |
| 1 | Calculus | C | Department of Higher Mathematics | 8 | 304 | 100 | | | 50 | 50A | |
| | Programming | | | 15 | 570 | 166 | 26 | 24 | 56 | 60 | |
| 1 | Computer Practice in Python Programming | C | Department of Information Technologies in Business | 5 | 190 | 58 | | | 28 | 30A | |
| 2 | Introduction to Programming | C | Department of Information Technologies in Business | 10 | 380 | 108 | 26 | 24A | 28 | 30A | |
| | Development and Analysis of Requirements | | | 3 | 114 | 32 | 16 | 16 | | | |
| 1 | Practice in Basics of Technical Documentation Designing | C | Department of Information Technologies in Business | 3 | 114 | 32 | 16 | 16A | | | |
| | Software Project Management | | | 4 | 152 | 48 | 24 | 24 | | | |
| 1 | Introduction into Software Engineering | C | Department of Information Technologies in Business | 4 | 152 | 48 | 24 | 24A | | | |
| | Elective Professional Block (Major) | | | 3 | 114 | 42 | | | 28 | 14 | |
| | Проектный семинар | | | 3 | 114 | 42 | | | 28 | 14 | |
| | Проектный семинар (1 курс) | | | 3 | 114 | 42 | | | 28 | 14 | |

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|---|-----------------------------------|---|--|----------|------------|------------|-----------|-----------|-----------|-----------|---|
| 1 | Project Seminar 1 | E | Department of Information Technologies in Business | 3 | 114 | 42 | | | 28 | 14A | |
| | English | | | | | 146 | 24 | 32 | 44 | 46 | |
| | Optional Courses | | | | | 144 | 24 | 32 | 44 | 44 | |
| 1 | English | O | | 8 | | 144 | 24 | 32A | 44 | 44A | Foreign language, Credits only to the cumulative rating |
| | Examinations | | | | | 2 | | | | 2 | |
| 1 | English Language Integrative Exam | C | Департамент иностранных языков | | | 2 | | | | 2A | |
| | General Courses | | | 6 | 228 | 130 | 34 | 20 | 26 | 50 | |
| | Optional General Courses | | | 4 | 152 | 26 | | | | 26 | |
| 1 | History | C | Department of Humanities | 4 | 152 | 26 | | | | 26A | Online Course |
| | Core General Courses | | | 2 | 76 | 104 | 34 | 20 | 26 | 24 | |
| 1 | Safe Living Basics | C | Department of Physical Training | 1 | 38 | 14 | 14A | | | | Online Course |
| 2 | Physical Training | C | Department of Physical Training | 1 | 38 | 90 | 20 | 20A | 26 | 24A | |
| | Internship | | | 5 | 190 | 2 | | | | 2 | |
| | Project Internship | | | 5 | 190 | 2 | | | | 2 | |
| 1 | Курсовой проект | E | Department of Information Technologies in Business | 5 | 190 | 2 | | | | 2A | |

Academic Supervisor

VIKENTEVA O.L.

Dean

ISOPESKUL O.Y.

Deputy Director

ZAGORODNOVA E.P.

Head of Degree Programmes
Development Office

MAMONOVA M.A.

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O