



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 38.04.02 Management

Educational Programme "Production Systems and Operational Excellence"

Trajectories: "Production Systems and Operational Excellence"

Implementing unit: Graduate School of Business, HSE - Moscow

Years of Study: 2023/2024 - 2024/2025

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

APPROVED

29.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

| Block Code | Course  | Subject type | Credits | Credits by Years |       | Planned Educational Programme Development Results         |
|------------|---|--------------|---------|------------------|-------|---|
|            |   |              |         | 1                | 2     |   |
|            | Degree Programme  |              | 120,00  | 60,00            | 60,00 |   |
|            | Production Systems and Operational Excellence (Applied track) |              | 120,00  | 60,00            | 60,00 |   |
|            | Key Seminars  |              | 24,00   | 12,00            | 12,00 |   |
| 1          | Mentor's Seminar  | C            | 6,00    | 3,00             | 3,00  | GPC-4, PC-1, UC-6   |
| 2          | Project Seminar "Tools of Operations Efficiency Development"  | C            | 6,00    | 6,00             |       | GPC-4, PC-2, UC-3, UC-4, UC-5                             |
| 3          | Project seminar "Management of Transformational Programs"     | C            | 6,00    |                  | 6,00  | GPC-4, PC-2, UC-2   |
| 4          | Project Seminar "Economics of Production Flow"                | C            | 3,00    |                  | 3,00  | GPC-2, PC-3, UC-1   |
| 5          | Project seminar "Organizational development"                  | C            | 3,00    | 3,00             |       | GPC-3, PC-2, PC-3, UC-4, UC-5                             |
|            | Internship  |              | 24,00   | 6,00             | 18,00 |   |
|            | Project Internship  |              | 24,00   | 6,00             | 18,00 |   |
| 1          | Preparation of Final Qualificaiton Paper                      | C            | 18,00   |                  | 18,00 | GPC-1, GPC-2, GPC-5, PC-3, PC-4, UC-1, UC-2               |
| 2          | A3 Operational Efficiency Improvement Project                 | C            | 6,00    | 6,00             |       | GPC-1, GPC-2, GPC-3, GPC-4, GPC-5, PC-2, PC-3, PC-4, UC-2 |
|            | Professional Internship                                       |              |         |                  |       |   |
|            | Research Internship   |              |         |                  |       |   |
|            | Major   |              | 57,00   | 36,00            | 21,00 |   |
|            | Basic Components  |              | 48,00   | 33,00            | 15,00 |   |
| 1          | Strategic Thinking and Strategic Analysis                     | C            | 6,00    | 6,00             |       | GPC-1, PC-2, UC-1   |
| 2          | Intrapreneurship  | C            | 3,00    |                  | 3,00  | GPC-4, PC-1, UC-2, UC-3                                   |

|   |  |   |              |             |             |                                      |
|---|--|---|--------------|-------------|-------------|--------------------------------------|
| 3 | Theory of inventive problem solving (TRIZ)   | C | 6,00         |             | 6,00        | GPC-2, PC-2, UC-1                    |
| 4 | Digital Transformation Management  | C | 6,00         | 6,00        |             | GPC-2, GPC-3, PC-4, UC-1             |
| 5 | Architecture of Production Systems and Production Management                       | C | 3,00         | 3,00        |             | GPC-3, PC-4, UC-1                    |
| 6 | Quality Management and Data Driven Decision Making (offered in a foreign language) | C | 6,00         | 6,00        |             | PC-3, UC-1                           |
| 7 | Research Methodology in Management   | C | 6,00         |             | 6,00        | GPC-2, PC-2, UC-1                    |
| 8 | Financial Management: Financial Analysis and New Business Models                   | C | 6,00         | 6,00        |             | GPC-1, PC-3, PC-4                    |
| 9 | Development production systems in industrial and service companies                 | C | 6,00         | 6,00        |             | GPC-3, GPC-5, PC-4, UC-1             |
|   | <b>Elective Disciplines - Social Skills</b>  |   | <b>3,00</b>  | <b>3,00</b> |             |                                      |
| 1 | Project Team Management  | E | 3,00         | 3,00        |             | GPC-4, PC-1, UC-3, UC-4, UC-5        |
| 2 | Leadership   | E | 3,00         | 3,00        |             | GPC-4, PC-1, UC-3, UC-4, UC-5        |
|   | <b>Elective Disciplines - Interprogram Pool</b>                                    |   | <b>6,00</b>  |             | <b>6,00</b> |                                      |
| 1 | Manufacturing Logistics  | E | 3,00         |             | 3,00        | GPC-3, PC-2, UC-5                    |
| 2 | Business Process Reengineering   | E | 3,00         |             | 3,00        | GPC-1, GPC-3, PC-2, UC-1             |
| 3 | Business Analytics as a Tool for Effective Management                              | E | 3,00         |             | 3,00        | GPC-2, PC-2, UC-1                    |
|   | <b>Magolego</b>  |   | <b>12,00</b> | <b>6,00</b> | <b>6,00</b> |                                      |
| 1 | All-university Pool MAGOLEGO Courses   | C | 12,00        | 6,00        | 6,00        | GPC-1, PC-2, UC-1, UC-2, UC-3, UC-4  |
|   | <b>Final State Certification (FSC)</b>   |   | <b>3,00</b>  |             | <b>3,00</b> |                                      |
| 1 | Final Qualification Paper  | C | 3,00         |             | 3,00        | GPC-2, GPC-5, PC-3, PC-4, UC-1, UC-6 |

**Curriculum agreed:**

|   |                |            |
|---|----------------|------------|
| Academic Supervisor                         | BAEV G.O.      | 24.05.2023 |
| Dean  | KATKALO V.S.   | 25.05.2023 |
| Head of Centre for Educational Model Design | LEPESHKIN I.A. | 26.05.2023 |

\* Subject type:

|                   |   |
|-------------------|---|
| Compulsory course | C |
| Elective course   | E |