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| **Module card** |
| I. GENERAL INFORMATION |
| **Witelon Collegium State University****DEPARTMENT FACULTY OF TECHNICAL AND ECONOMIC SCIENCE** |
| **Field** | Management, Economy |
| **Module title** | Production and service management (ME.1) |
| **Language of lecture** | English |
| **ECTS points** | 4 |
| **Preliminary conditions:** | None |
| II. Education aims |
| **1.** Knowing and understanding the essence, goals and problems, strategies, approaches and methods of production and service management in the area of ​​strategic and operational decisions of a production or service enterprise2. Understanding the essence and principles of operation of operational planning and control systems, taking into account the logistic aspects of material flows**3.** Acquiring knowledge and skills in the application of strategies, systems, methods and tools for production and inventory management |
| III. Education outcomes |
| **EF1.** The student knows and understands the essence, goals, principles, problems and strategies, approaches and methods of production and inventory management in the area of ​​strategic and operational decisions of a production company, including a service company**EF2.** The student knows and is able to apply strategies, systems, methods of planning and scheduling production**EF3.** The student knows and is able to apply strategies, systems, models and methods of production and inventory control**EF4.** The student is able to predict the economic, organizational and social effects of production and service management decisions |
| IV. EDUCATIONAL METHODS |
| **Assesment method:** Multimedia presentations, classes, case studies. |
| **Student workload:** Paper work |
| V. MODULE TYPE AND CONTENTS |
| The essence, goals and scope of production and service management. The concept of production, production system and production management. Productivity. Production management strategic and operational decisions. Types of production environments. Types of production system structures (technological and subject). Types, forms and varieties of production. Production planning and control system. Aggregate production planning (SOP) and its strategies. Classic systems and models of inventory management in an enterprise. Economic Order Quantity (EOQ) Model. Main production scheduling and material needs planning.Detailed scheduling and production control. |
| VII. ECTS POINT BALANCE SHEET - STUDENT'S WORKLOAD |
| **Category** | **Student’s workload** |
| ***Contact hours*** | 30 |
| Participation in lectures | 15 |
| Participation in classes, workshops | 15 |
| Exam | - |
| ***Independent student’s work*** | 70 |
| Preparation for the lecture | 15 |
| Preparation for the classes, workshops | 15 |
| Preparation for the test | 20 |
| Preparation for the exam | - |
| Preparing the project | 20 |
| Preparing multimedia presentation | - |
| ***Total numer of hours*** | 100 |
| ***ECTS points***  | 4 |
| VIII. Recommended literature |
| 1. J. Heizer, B. Render, Ch. Munson, *Operations management. Sustainability and supply chain management,* Global Edition, Pearson Education, 20192. R. Monczka, R.B. Handfield, L.C. Giunipero, J.L. Patterson, *Purchasing and supply chain management*, Cengage Learning 20163. S. Chopra, *Supply chain management: Strategy, planning and operations*, Global Edition, Pearson Education, 2019 |