MAGYAR LOGISZTIKAI, BESZERZÉSI ÉS KÉSZLETEZÉSI TÁRSASÁG
HUNGARIAN ASSOCIATION OF LOGISTICS, PURCHASING AND INVENTORY MANAGEMENT

Logistics and supply chain management postgraduate diploma program

Name of Institute/Faculty

Corvinus University of Budapest, Faculty of Business Administration

Terms of attendance

Program is allowed to be attended by those who have nationally accredited college/university degree and pass the oral entrance examination (entrance examination committee assesses the candidate's motivation, professional skills and education).

Criterion of starting the course

A minimum of 18 attendants who passed the entrance exam.

Title students gain after the program

If original diploma is not in economics or business: logistics and supply chain manager

If original diploma is in economics or business: expert economics in logistics and supply chain management.

Course characteristics:

Start: September of current year

Program length: 4 semesters

Frequency of education: Fridays (afternoon) and Saturdays

Location: Budapest (Corvinus University)

Program fee: 310.000 HUF/semester

Way and criteria of application

Way of application: filling the application form and enclosing the following documents:

Certification of college/university graduation, copy of the diploma, copy of the language exam certification(s) (to have a language exam is not a criterion of application), 2 pieces of photos, certification of 2 years working experience in the field

Further information:
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Deadline of application: The end of April of current year

Aim of the program:
Aim of the postgraduate program is to train logistics professionals to be able to achieve higher levels in company hierarchy and provide current knowledge necessary for consultancy work. The students will be able to view company and its logistic and supply chain processes from a system perspective and find interdependencies.

STRUCTURE OF COURSES

No.	Courses	Sum of sessions
A.	**Basement courses**	
1.	Basic terms and concepts of Economics	20
2.	Statistical data analysis	24
3.	Decision analysis and support	20
GM.	**General management courses**	
4.	Corporate strategy and business policy	28
5.	Management	16
First semester total:		**108**
6.	Marketing and sales	20
7.	Corporate financial policy	16
8.	Management accountancy	16
9.	Leadership competencies	16
MM.	**Management of materials flow**	
10.	Management of production and service processes	28
11.	Supply chain management	28
12.	Distribution	16
Second semester total:		**140**
13.	Inventory management	28
14.	Purchasing	16
15.	Logistics information systems	16
16.	Elective course	16
17.	Warehouse management	24
Third semester total:		**100**
18.	Specific legal studies	20
19.	International forwarding and logistics services	40

20.	Quality management	16
21.	Logistics performance management	28
22.	Elective course	16
Fourth semester total:		**120**
Thesis work ***		**40**
PROGRAM TOTAL:		**508**

COURSES

Basic terms and concepts of Economics
This subject gives a general overview of mainstream economic theories and methods. It consists of two major parts: micro-, and macroeconomics. Some issues of international economics are also integrated in these two parts. The course has a special focus on the following topics such as different economic indicators; the role of the market mechanism in efficient resource allocation; roles and limits of the economic policy decision making.

Statistical data analysis
Introduces key statistical terms and methods; promotes a certain statistical approach; gives proficiency in the use of methodological tools, in understanding and interpreting results obtained, and in the compilation of data needed for subsequent decision-making.

Decision analysis and support
The course addresses both the theoretical and practical processes and skills of decision making from individual to organizational and social levels. It starts with a short historical introduction, which helps in understanding the relationship of decision theory and decision support, followed by a primarily problem-centred approach to the subject, with a number of case studies, role playing and self assessment tests and different applications. We shall examine how decision theory, originally developed as a theory for individual decision making can be improved as a theory for organizational and social decision making and look at problems which have been associated with attempts to do this.

Corporate strategy and business policy
The aim of this subject is to introduce a comprehensive integrated terminology and approach of developing and implementing corporate strategy. A further learning objective is to equip candidates with theoretical knowledge on strategy development and related analytical methods and to make them proficient in their use.

Management
In the focus of this subject is the organisation of a company which is in close interaction with its environment. Having a good understanding of and ability to purposefully lever the complexity of relationships existing between an organisation and its environment is vital for ensuring the success of its management/organisation function; only in the knowledge of these interdependencies is it possible to set goals for the organisation, create an organisational structure capable of supporting the attainment of those objectives, and to coordinate various activites with a view to facilitating the attainment of said objectives. By the end of the course candidates will have to demonstrate their ability to analytically evaluate the organisation of certain companies, including their formal structure and operations in interaction with their environment, and to use this knowledge to define reorganisation objectives and to formulate a range of propositions. We aspire to equip candidates with sound theoretical approaches to corporate organisation and management with a practical relevance to ensure that they can become focused mid- and senior managers capable of charting alternatives and managing changes as they arise.

Marketing and sales
The most important learning objective associated with this subject is to give students more in-depth and structured knowledge about the market, its operation and the market activities of companies.

Corporate financial policy
The aim of this subject is to give an introduction into commonly accepted basic conventions and key terms related to the evolution of cash management. Corporate finance is interlaced with all other corporate functions and bearing in mind this dynamic relationship is essential for ensuring smooth functional operations. A company's balance sheet and profit/loss account provide its financial skeleton, all their categories are derived from the evolution of real processes, therefore any diagnosis of the cause of financial problems must come from their skilled analysis.

Management accountancy
This subject is meant to teach candidates how to be skillful and confident in handling key information about a company, namely various categories of the balance sheet and profit/loss account. The first vital and unavoidable step in achieving this is to make candidates understand that accounting is an artificially created descriptive language, with all its advantages and disadvantages. This is why it must form part of interpreting reality from an accounting point of view to find out how data called 'facts' originated, because apparent problems often arise in this area.
Learning objectives include guiding candidates in deciding whether a problem they encounter has this kind of origin, or it has a different cause (in the real economy)?

Leadership competencies
Candidates acquire the hard and soft pre-requisites of successful management based on which they can become independent and effective managers in practice.

Supply chain management
The aim of the course is to achieve an understanding of core logistics and suply chain management concepts, models and their relationships. The course has a process focus but deals with those issues as well that are dedicated to building and maintaining succesful business relationships. Different types of supply chains and their management specialities are discussed. Bullwhip effect and their countermeasures are also demonstrated and analysed.

Management of production and service processes
Characteristics of production and service processes, differencies and similarities, classifications. Issues of production and service strategies, current best strategies (agility and lean). Analyzing production processes: capacities, bottlenecks, lead time, cycle time, takt time - the basics of lean thinking.
Production planning and control: aggregate planning, MRP - importance of smoothing in lean.
Lean management in practice, implementation issues.
Projects: definition, characteristics, their role in modern company operations, organizational aspects.
Production simulation.

Distribution
The students will be capable to overview the entire distribution in a process-based view, as well as to point out the interdependencies with other functional areas within the company and the supply chain. They also will be able to analyse the distribution-related questions and problems. During the course, students have to solve case studies in teams, which help them to learn the benefits of teamwork and common brainstorming.

Inventory management
The subject entitled inventory management gives an overview of the role of inventory in a company's financial management. The course aims to give candidates an overview of the models enacted by different companies. The inventory management module explores the terminology and methodology needed for rational inventory management.

Purchasing
This subject provides an overview of the basiscs of purchasing and supply management. It will cover trends and basic terms, a brief review of the sourcing process, and the means of supplier management (e.g. supplier evaluation, e-auction), introduce the legal framework of public procurement.

Logistics information systems
Gain insight into the system oriented thinking in logistics information technology , overviewing managament issues an dilemmas.

Topics covered
- Overview of Logistics Information Systems
    - IT needs in logistics subsystems
    - IT solutions in logistics
    - Characteristics of the networked economy
- Case study and practical examples
    - RFID background
    - practical RFID solutions
    - ROI in RFID
    - Innovative logistics solutions: lessons
- Forecast and Inventory management supported by IT
- Management dilemmas and decisions in logistics IT
    - issues to be solved
    - methods
    - implementation and operational issues
    - Outlook: future trends and solutions

Warehouse management
Knowledge the role of warehousing in supply chain management, analysis of warehousing processes, solution of the warehousing problems.

Topics covered
- Role of warehousing in supply chain management. Warehousing in the one and two level distribution systems. Appointment on the storing - warehousing – transporting as collaboration system. Storing processes connecting to ECR technique, main aspects of the Cross-Docking, and conditions of the development in the warehousing;
- View on the warehousing processes as system theory. Main properties of the warehousing systems. Basic and special processes of the warehousing systems. Different cases of set in warehousing periods. Control loop of the sets. Tools and facilities of warehouses. Description of the traditional warehouses.
- Choosing of the static and dynamic storing systems. Parts of the material handling processes. Properties of material handling systems. Aspects for choosing of material handling machines. Layout of the storing and input-output parts of the warehouses. Putting and picking strategies of the goods. Priorities.
- Parts of the goods picking processes. Preparing of the goods in static and dynamic way. Picking strategies. Integration of the storing and the picking systems. Control of the warehousing processes, information handling and control strategies. Wired and wireless data transmission connections.
- Specialities, main characteristics and technical parts, inside processes, application fields, advantages and disadvantages of the AS/RS warehousing systems. Main steps of the technological project plan in AS/RS warehousing systems. Choosing of the storing and materials handling system. Determination of the payload and the full area and the basic dimensions in AS/RS warehousing systems.

- Criteria for the validation of the warehousing processes. Assignments for the quality of warehousing services. Practical solutions, case studies.

Specific legal studies

Competences taught within the framework of this subject facilitate greater sales turnover stability and well-informed business decision-making. Acquired competences facilitate more streamlined financial operations thanks to the selection of the most adequate forms of structuring operations and the simplest organisational processes. Successfully completing this module leads to reduced business risk, relationships of accountability can be easily defined, and it becomes possible to circumvent unnecessary, costly and time consuming procedures.

International forwarding and logistics services

This subject covers various aspects of international forwarding and logistics services. It gives an introduction into the legal framework of forwarding, including the most important features of related agreements, documents and applicable tariffs. This unit gives an overview of various activities classed as logistics services and the requirements imposed on logistics service providers. There is special emphasis on the theory of transportation and forwarding, as well as on such vital aspects of delivering goods as logistics centres and transport infrastructure networks. Today this kind of knowledge is an absolutely essential pre-requisite for organising and managing international logistics processes.

Quality management

Knowing quality management the students will become *familiar* with:

- the quality system structure - totally comprehensive corporate operations - the basic processes, the methods and procedures of planning, analysis, control and improvement
- the advanced tools of corporate quality management

Knowing quality management the students will be able:

- to formulate quality improvements and objectives, supporting corporate competitiveness
- to manage and improve quality system processes
- to determine more efficient and company-specific operation of the assets

Topics covered

- The evolution of concept of quality and quality systems. The importance of quality, quality as the source of competitive advantage. Quality control in the production process and services.
- The relationship of quality control, quality assurance and quality management.
- The ISO 9000:2008 standard series and the sector-specific quality systems, EFQM – the European model of excellence.
- Modern techniques of process improvement and quality management (steps and tools of systematic problem solving, QFD – Quality Function Deployment, FMEA – Failure Modes and Effects Analysis, the possible ways of error prevention, SPC – Statistical Process Control, process monitoring, 5S – SEIRI, SEITON, SEISO, SEIKETSU, SHITSUKE, creating performance-enhancing work environment, TPM – Total Productive Maintenance of production systems, 6 sigma – radical reduction of non-conformance cost, reduction in the number of defective parts from percentage to part per million).
- The application of mathematical statistics in quality management, (the theory and practice of sampling based inspection, tests in the quality management - chi square test, t-test F-test, ANOVA – analysis of variance, correlation and regression analysis, hypothesis testing, measurement system analysis, R & R - repeatability and reproducibility study, the basics of the design of experiments).
- The concept of product liability and its laws regulation
- Exploration and reduction of cost of quality (prevention, testing, failure costs).

- Introduction of quality system in practice: presentation of an implemented system at a large company, professional discussion on the presented system.

Logistics performance management

Analysis of the impact of the management of the logistics and supply chain on business performance, an introduction into understanding and using approaches and tools of evaluating the impact of logistics (and manufacturing, operating) decisions used to support the evaluation and enhancement of logistics performance. Basic concepts of business performance, value creation, performance of the logistics and supply chain, performance enhancement opportunities, performance measurement and management approaches helping to support logistics decisions.