

Management and Marketing	
1.	<p>The concept and functions of management</p> <ul style="list-style-type: none"> <li>What is the definition of management and what do the functions mean? What is the definition of a manager and what levels of management can we identify by classification?</li> <li>Describe Mintzberg's classification of managerial roles: define categories and list the roles.</li> <li>What are the three types of skills that managers need and what do they mean?</li> </ul>
2.	<p>Structural characteristics of organizations and main organizational structures</p> <ul style="list-style-type: none"> <li>Explain the six elements of organizational design.</li> <li>Define Simple, Functional, and Divisional structures, highlighting their strengths and weaknesses</li> <li>Describe why the Team and Matrix structure are specific.</li> </ul>
3.	<p>Defining marketing</p> <ul style="list-style-type: none"> <li>What are the value and scope of marketing?</li> <li>Introduce the new marketing realities: the three forces and the new consumer and company capabilities through practical examples.</li> <li>What are the holistic marketing dimensions?</li> </ul>
4.	<p>Market segmentation, targeting, and positioning</p> <ul style="list-style-type: none"> <li>Introduce the ways a company can divide the consumer and the business market into segments</li> <li>List the requirements for effective segmentation. Introduce the different levels of segmentation (target market strategies) and give example for at least two different levels</li> <li>Explain the competitive frame of reference and perceptual map for positioning, and point out their application</li> </ul>
Quality Management	
5.	<p>Formalized Quality Management Systems</p> <ul style="list-style-type: none"> <li>General features and main principles of ISO 9001.</li> <li>Sector-specific quality management systems in production.</li> <li>Sector-specific quality management systems in services.</li> </ul>
6.	<p>Current Quality Management Trends</p> <ul style="list-style-type: none"> <li>The relationship between Six Sigma, Lean Management and TQM.</li> <li>Self-assessment and its role in the improvement of the organizational operation.</li> <li>The main criteria of the EFQM model.</li> </ul>
7.	<p>Process management in practice</p> <ul style="list-style-type: none"> <li>Basics of process management, process improvement models.</li> <li>Possibilities to identify and describe processes.</li> <li>Methods assuring the optimal, error-free implementation of processes.</li> </ul>
8.	<p>Quality management methods and tools</p> <ul style="list-style-type: none"> <li>Classification of quality management tools.</li> <li>Quality management tools for data collection and analysis related to processes.</li> <li>Quality management tools focusing on failure analysis.</li> </ul>
Production and Operations Management	
9.	<p>Describe the most important forecasting methods and their practical applications.</p> <ul style="list-style-type: none"> <li>Classification of forecasting methods. Basic components of the demand pattern.</li> <li>Projective forecasting methods – methods used for forecasting constant demand, and demand with trend and seasonality.</li> <li>Evaluation of the forecasting error. Monitoring the forecasting model (tracking signal).</li> </ul>
10.	<p>Describe what you learned about capacity planning and analysis.</p> <ul style="list-style-type: none"> <li>Capacity definitions, most important capacity indices and their application.</li> <li>Short-term capacity planning – difference between demand and capacity management, classical methods.</li> <li>Application of the learning curves in capacity analysis – theory, conclusions.</li> </ul>
11.	<p>Describe the calculation of the economic order quantity in inventory management and the difficulties of the practical application.</p> <ul style="list-style-type: none"> <li>Operation of classic inventory control mechanisms – application, similarities, differences.</li> <li>Deterministic (EOQ, EPQ) and stochastic models (safety stock) in inventory management – the principles of the models, managerial decisions and challenges.</li> <li>Discounts depending on the quantity ordered.</li> </ul>
12.	<p>How can aggregate production planning be done with linear programming, and what are the most important outcomes for management?</p> <ul style="list-style-type: none"> <li>The basics of aggregation – levels, reasons, necessary information set, challenges</li> <li>Management decisions based on the results of linear production planning models. Finding and evaluating the optimal solution.</li> <li>Sensitivity analysis of objective function coefficients and right-hand side parameters.</li> </ul>
Project Management	
13.	<p>Traditional project planning methods, role of planning in project management, integration into the life cycle model.</p> <ul style="list-style-type: none"> <li>Gantt chart, Harmonogram.</li> <li>Effect of the sequence on total project time (job shop scheduling).</li> <li>Impact of stretchable activities on the total project time, minimizing waiting time.</li> </ul>
14.	<p>CPM components, time analysis</p> <ul style="list-style-type: none"> <li>Critical path.</li> <li>Evaluation of results, floats.</li> <li>Project crashing with Fondahl's method, criticisms.</li> </ul>
15.	<p>MPM components, time analysis</p> <ul style="list-style-type: none"> <li>Evaluation of results, critical activities, floats.</li> <li>Time analysis of maximal relationships.</li> <li>Time analysis of stretchable activities.</li> </ul>
16.	<p>Resource planning and project monitoring</p> <ul style="list-style-type: none"> <li>Purpose of resource planning, smoothing and allocation algorithms with constraints.</li> <li>Project monitoring, range of data to be collected.</li> <li>Forecasting methods (EVM indicators, S-curves).</li> </ul>

Old final exam questions	
3.	<p>Defining marketing</p> <p>The value and scope of marketing</p> <p>The new marketing realities. New consumer and company capabilities</p> <p>Holistic marketing demensions</p>
4.	<p>Market segmentation</p> <p>Segmenting consumer markets.</p> <p>Effective segmentation.</p> <p>Evaluating and selecting the market segments.</p>