Supply Chain Resilience: Coping with and thinking beyond the COVID-19 pandemic (Prof. Dr. Dmitry Ivanov)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Certificate with optional 2 ECTS</th>
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<tbody>
<tr>
<td>Type of study</td>
<td>Online Seminar</td>
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<tr>
<td>Seminar duration</td>
<td>20 academic hours online teaching (synchronous) + 40 hours self-study work (for examination option)</td>
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<td>Synchronous online Sessions</td>
<td>11 / 12 / 25 / 26 November and 9 December 2021 (running time: each date from 2.00 to 5.15 pm CET)</td>
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<td>Language of instruction</td>
<td>English</td>
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<tr>
<td>Tuition fees</td>
<td>395 Euro</td>
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<td>195 Euro (Students and University members)</td>
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Seminar Content
Increased interest in supply chain risks and resilience is usually born out of a crisis. The COVID-19 pandemic has been a stress-test for supply chain resilience unveiling missing preparedness and insufficient recovery capabilities across different industries and sectors. Businesses and governments recognized an urgent need to review resilience of supply chains and enhance their resilience for future.

This course offers a concise yet comprehensive introduction to supply chain resilience, covering management, modeling and technology perspectives. It has been designed and will be conducted by a renowned expert and thought-leader in supply chain resilience, Prof. Dr. Dr. habil. Dmitry Ivanov from Berlin School of Economics and Law, the author of over 100 academic papers on supply chain resilience and the book "Introduction to Supply Chain Resilience".

The course covers the following topics:

- Discussing and examining supply chain risks and resilience in depth
- What are the major features of supply chain resilience
- How to mitigate supply chain disruptions and develop recovery strategies
- How to balance efficiency and effectiveness
- How to adapt to a pandemic and other long-term crises

Numerous practical examples and short case studies are provided to illustrate theoretical concepts. A special focus is directed on the Digital Supply Chain and resilience modeling and management by digital twins using anyLogistix supply chain software.

The COVID-19 pandemic is specifically considered throughout the course. The course explains major concepts and methods to build and improve supply chain resilience and tackle supply chain disruption risks in a simple, uniform format to make it easy to understand for students and professionals with both management and engineering backgrounds.

Graduates, PhD students and supply chain professionals alike will benefit from the structured, didactically oriented and concise presentation of the concepts, principles and methods of supply chain resilience management, modeling, and technological implementation.

Programme Outline
Lecture 1
- Supply chain risks, disruptions, and the ripple effect
- Case-study "Risks in supply chains"

Lecture 2
- Super disruptions and COVID-19 pandemic
- Supply chain resilience: strategy, management and capabilities
- Case-studies “Design-for-Resilience” and “Repurposing the supply chain in a week - From car manufacturing to saving lives during the COVID-19 pandemic”

Lecture 3
- Supply chain recovery strategies
- Case-study “Resilience as a Key Component of Supply Chain Management”
Lecture 4
- Balancing efficiency and resilience
- Case-study “Resilient Sourcing Strategy: Reacting to COVID-19 Virus Outbreak by Using Adaptation Capabilities”

Lecture 5
- Supply chain resilience modeling and simulation
- Digital technology and end-to-end visibility for supply chain resilience
- Software-based case-study “Supply chain resilience simulation using anyLogistix”

Lecture 6
- Supply chain resilience measurement
- Ripple effect exposure analysis
- Computational case-study “Ripple effect quantification”

Lecture 7
- Supply chain resilience at pandemic times and long-term crises
- Case-studies “Capacity adaptation during the COVID-19 pandemics”

Lecture 8
- Supply chain resilience at pandemic times and long-term crises (continuation)
- Software-based case-study “Predicting the impacts of the COVID-19 pandemic on the global supply chain using anyLogistix simulation”
- Software-based case-study “Food Retail Supply Chain Resilience and the COVID-19 Pandemic: A Digital Twin-Based Impact Analysis and Improvement Directions”

Lecture 9
- Navigating supply chains through the pandemic and exiting the pandemic
- Supply chain viability, intertwined supply networks, and reconfigurable supply chains

Lecture 10
- Resilience, epidemics/pandemics, and climate change
- Summary of the course

Supporting literature:

Seminar Structure
This management seminar is taught completely online in English through the virtual learning platform “Moodle”. The course content is delivered in synchronous online sessions. A wide variety of innovative teaching methods are used, such as interactive lectures, group and plenary discussions, live quizzes, micro-case-studies and active breaks. A special importance is attached here to the close interaction of theory and practice.

The online sessions will alternate with self-study phases. Videos, presentations, readings and blogs will be used for the exchange of content and the processing of group assignments during these phases.

In order to benefit from the content and the activities of the course the basic knowledge of supply chain and operations management would be advisable. Please note that the course will be taught in English.

Certificate
After completion of the seminar you will receive a certificate of attendance. Should you have successfully achieved the coursework or the related module examination, you will receive a module certificate with a grade and proof of ECTS credit points.
Tuition Fee
The tuition fee for this Online Management Seminar amounts to 395 Euro. For students and members of universities (verification by e-mail-address) the fee amounts to 195 Euro.
For vocational further trainings, tuition fees are normally tax deductible.

Registration
If you are interested in taking part in our Management Seminar, please register by 5 November 2021 by completing the registration form:

- Registration form
Please send the registration form by Email to: bps-executive(at)hwr-berlin.de

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