



**INNOVATION MANAGEMENT AND SUSTAINABLE DEVELOPMENT**

<b>Credit points</b>	<b>5 CP</b>		
<b>Study course annotation</b>	<p>Innovation is a key business process and as such innovative capabilities are by definition becoming key capabilities and a base of sustainable development. The outcome of this is the high significance of importance for measuring innovative capabilities, identifying strengths and weaknesses and formulating strategies for maximising advantage whilst improving upon weaknesses, in key managerial activities. However, innovations exist in different classes and sizes. Product innovations are different from process innovations. Incremental innovations are different from disruptive innovation. The capabilities needed to address each different type of innovation vary accordingly. Business leaders integrating sustainability and ESG considerations across value chains and business model are setting up their companies for long-term success and resilience. The course discusses different perspectives on science, technology, and innovation, including the core concept formation, Green Deal, progress towards sustainable development goals, development of the innovation ecosystem, and priorities of the EU innovation policy.</p>		
<b>The aim of the course</b>	<p>The aim of the course is to provide an understanding of how innovation takes place and what the important explanatory factors are, as well as the economic and social consequences.</p> <p>Understanding of the interplay between innovations, economic transformation, sustainable development, and economic growth, considering the link between innovation and productivity, technological upgrading.</p>		
<b>Description of the results of the study course and assessment criteria:</b>	<b>Knowledge</b>	<b>Skills (knowledge, communication, general skills)</b>	<b>Competence (analysis, generalization and evaluation)</b>
	<p>By completing this study course, students know:</p> <p>1.1. modern view of several subjects on innovations;</p> <p>1.2. the main types of innovations and their management,</p> <p>1.3. the main ecosystem dimensions of innovation and their connection with economic and sustainable development; what does the sustainable development involve;</p> <p>1.4. environmental, social and governance (ESG) metrics.</p> <p>1.5. why sustainability and innovation are interdependent concepts;</p> <p>1.6. the benefits for being an eco-innovative organisation</p>	<p>1.1. in the analysis of modern approaches to determining innovation results;</p> <p>2.2. in the analysis and comparison of the theoretical foundations of innovation policy-making;</p> <p>2.3. determine the perspective of future trends in innovation research;</p> <p>2.4. understand academic literature and make academic presentations;</p> <p>2.5. apply the knowledge gained in the course in different business situations, working in a team or individually.</p>	<p>3.1. evaluate the situation of innovative development in Latvia, comparing the indicators of Latvia and other countries;</p> <p>3.2. to carry out research activities and studies on issues of innovation theories, to interpret and analyze their results;</p> <p>3.3. competently prepare and present research related to innovation management and sustainable development;</p> <p>3.4. demonstrate a scientific approach to evaluating the innovation management process and solving the necessary problems.</p>



<b>Content of the course</b>	<b>Topics</b>	
	1	Introduction. Science, technology and innovation in economics. Theory and basic principles of innovation and sustainable development.
	2	The types of innovations (OECD). Innovation and intellectual property rights
	3	Ecosystem of innovation. Start-up ecosystem. Institutions and mechanisms. R&D organizations and universities in the innovation process.
	4	EU innovation policy, the tasks. Legislation and regulation. Latvian and EU state policy and strategy in the field of innovative development, Green Deal.
	5	Trends in innovative development. Analysis of innovative development and technological leadership trends of Latvia and EU countries. R&D and innovation. Innovation Scoreboard.
	6	ESG framework. The Sustainable Development Agenda. Sustainable development goals. Sustainable innovation.
	7	Innovation management process. The innovation process starts with an idea.
	8	Business and sustainable development. Environmental, social and governance (ESG) metrics to analyze an organization's ethical impact and sustainability practices. Integrating sustainability and ESG considerations into value chains and business models.
	9	The EU programmes, funding and priorities, Horizon Europe 2021–2027.
<b>Organization and tasks of students' independent work</b>	Independent (group) work involves presenting reports, preparing for seminars and exams, analysing scientific literature and articles related to the course topic.	
<b>Form of assessment:</b>	Exam	
<b>Criteria for evaluation (assessment structure)</b>	The final grade consists of	100%
	Practical work individually/group	30%
	Participation in seminars and discussions	30%
	Analysis of literature	20%
	Type of final exam: Written exam/test	20%
<b>Required reading:</b>		
<ol style="list-style-type: none"> <li>1. Binns Tony, An Introduction to Sustainable Development Routledge Perspectives on Development Series. Third edition <a href="https://handoutset.com/wp-content/uploads/2022/06/An-Introduction-to-Sustainable-Development-3rd-edition-Routledge-Perspectives-on-Development-J.-Elliot.pdf">https://handoutset.com/wp-content/uploads/2022/06/An-Introduction-to-Sustainable-Development-3rd-edition-Routledge-Perspectives-on-Development-J.-Elliot.pdf</a></li> <li>2. Borut Likar, Peter Fatur, Urška Mrgole, Innovation management. Edition: 1st edition, 2013 Publisher: Korona plus d.o.o. - Institute for Innovation and Technology Editor: Borut Likar, Peter Fatur, Urška Mrgole <a href="https://www.researchgate.net/publication/292127499_Innovation_management">https://www.researchgate.net/publication/292127499_Innovation_management</a> (pdf.)</li> <li>3. Eric Von Hippel Democratizing innovation, Library of Congress Cataloging-in-Publication Data , 2005 <a href="https://web.mit.edu/evhippel/www/books/DI/DemocInn.pdf">https://web.mit.edu/evhippel/www/books/DI/DemocInn.pdf</a></li> <li>4. Greenhalgh, Christine and Mark Rogers (eds) (2010) Innovation, Intellectual Property and Economic Growth, Princeton University Press. <a href="https://epdf.tips/download/innovation-intellectual-property-and-economic-growth.html">https://epdf.tips/download/innovation-intellectual-property-and-economic-growth.html</a></li> </ol>		
<b>Recommended reading:</b>		
<ol style="list-style-type: none"> <li>1. Fagerberg, Jan, David C. Mowery and Richard R. Nelson (eds.) (2005) The Oxford Handbook of Innovation, Oxford University Press. <a href="http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199286805.001.0001/oxfordhb-9780199286805">http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199286805.001.0001/oxfordhb-9780199286805</a></li> <li>2. European Parliament Innovation Policy, <a href="https://www.europarl.europa.eu/factsheets/en/sheet/67/innovation-policy">https://www.europarl.europa.eu/factsheets/en/sheet/67/innovation-policy</a></li> </ol>		



3. Henri Delanghe, Ugur Muldur, and Luc Soete (eds) (2009) European Science and Technology Policy, Edward Elgar. <https://www.elgaronline.com/view/9781848443303.xml>
4. The Sustainable Development Agenda <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

**Other information sources:**

1. BSA Data base: WEB of Science, Scopus, Elsevier, EBSCO
2. Eurostat: <https://ec.europa.eu/eurostat/data/database>
3. The Magazine of Corporate Responsibility <https://business-ethics.com/>
4. The Organisation for Economic Co-operation and Development (OECD) <https://www.oecd.org/>

During the study process changes and additions to the program and the list of references are possible