

FUNDAMENTALS OF ENTREPRENEURSHIP

COURSE SYLLABUS

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| Code and name of specialty | 121 Software Engineering 122-Computer Science 126-Information Systems and technologies | Institute / faculty | Computer Sciences and Software Engineering |
| Program name | Software Engineering Computer Science and Intelligent Systems Information Systems Software | Department | Software Engineering and Management Information Technologies |
| Type of program | Educational and Professional | Language of instruction | Ukrainian |

LECTURER

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Ph.D., Associate Professor at the Department of Software Engineering and Management Information Technologies of NTU «KhPI». Prepared and published more than 30 research papers and textbooks (Google Scholar:

https://scholar.google.com/citations?hl=ru&user=YEmGWLkAAAAJ&view_op=list_works&sortby=pubdate; ORCID: <https://orcid.org/0000-0003-4119-5441>; Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57203517746>).

Leading lecturer of courses: "Project Management" (*in Ukrainian and English*), "Fundamentals of Software Project Management" (*in Ukrainian and English*), "Innovation and Entrepreneurship" (*in Ukrainian and English*).

GENERAL DESCRIPTION OF THE COURSE

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| Summary | The course "Fundamentals of Entrepreneurship" is an academic discipline from the profiled package of disciplines 02 "Software Development and Startup". It is taught in the sixth semester in the amount of 90 hours (3 ECTS credits), in particular: lectures – 32 hours, Practical classes – 32 hours, independent work – 56 hours. There are no individual tasks. |
| Course objectives | To provide students with an understanding of the essence of entrepreneurship, its types, types, properties and functions. Entrepreneurs and the business environment are studied. Entrepreneurial idea is revealed, the mechanism of creation of own business, business planning, financial and personnel maintenance is stated, it is told about business risks and safety of business activity, psychological aspects of business, culture and ethics of activity of business structures. Considerable attention is paid to assessing the effectiveness of entrepreneurial activity and the peculiarities of entrepreneurship in various industries and activities |
| Types of classes and control | Lectures, Practical classes. Continuous assessment – Practical works, intermediate modular assessment. Final assessment – credit test |

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| Term | 7 | | | | | | |
| Student workload (credits) / Type of course | 4 / Elective | Lectures (hours) | 32 | Practical classes (hours) | 16 | Self-study (hours) | 88 |

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| Program competences | <p>GC 1. Ability to abstract thinking, analysis and synthesis. GC 2. Ability to apply knowledge in practical situations. GC 3. Ability to understand the subject area and professional activity. GC 5. Ability to learn and master modern knowledge. GC 6. Ability to search, process and summarize information from various sources. GC7. Ability to search, process and analyze information from various sources. GC10. The ability to be critical and self-critical.</p> <p>121- PC21. Ability to assess and take into account economic, social, technological and environmental factors affecting the sphere of professional activity. 122-PC6. Ability to think systematically, apply the systems analysis methodology to study complex problems of different nature, methods of formalization and solution of system problems with conflicting goals, uncertainties, and risks. 122-PC15. Ability to analyze and perform functional modelling of business processes, construction and practical application of functional models of organizational, economic, and production-technical systems, methods of risk assessment of their design. 126-PC 5. Ability to assess and take into account economic, social, technological and environmental factors at all stages of the life cycle of infocommunication systems. 126-PC 9. Ability to develop business solutions and evaluate new technological proposals. 126-PC 14. Ability to form new competitive ideas and implement them in projects (startups).</p> |
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| Learning outcomes | Teaching and learning methods | Forms of assessment (continuous assessment CAS, final assessment FAS) |
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| <p>121- PO24. Be able to calculate the economic efficiency of software systems. 122-PLO8. Use the methodology of system analysis of objects, processes, and systems for the tasks of analysis, prediction, management, and design of dynamic processes in macroeconomic, technical, technological, and financial objects. 126-PLO 10. Understand and take into account social, environmental, ethical, economic aspects, requirements of labor protection, industrial sanitation, fire safety and existing state and foreign standards in the formation of technical tasks and solutions.</p> | <p>Interactive lectures with presentations, discussions, Practical classes, teamwork, case method, student feedback method, problem-based learning</p> | <p>Written individual assignments for Practical works (CAS), assessment of knowledge in Practical classes (CAS), express surveys (CAS), online tests (CAS), final/semester control in the form of a semester exam, according to the schedule of the educational process (FAS)</p> |

ASSESSMENT AND GRADING

| Range s of points | core (points) for all types of learning activities | ECTS grading scale | The national grading scale | Allocation of grade points | 100% Final assessment as a result of Final exam (30%) and Continuous assessment (70%). |
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| | 90-100 | A | excellent | | |

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| corres pondi ng to grades | 82-89 | B | good | 30% Final exam 70% Continuous assessment: Module №1 (10%) Module №2 (20%) Practical works (40%) Practical work №1 (5%) Practical work №2 (5%) Practical work №3 (5%) Practical work №4 (5%) Practical work №5 (5%) Practical work №6 (5%) Practical work №7 (5%) Practical work №8 (5%) |
| | 74-81 | C | | |
| | 64-73 | D | | |
| | 60-63 | E | satisfactory | |
| | 35-59 | FX | Unsatisfactory (with the exam retake option) | |
| | 0-34 | F | Unsatisfactory (with mandatory repetition of the course) | |

Course policy Students must attend all classes according to the study schedule and adhere to the norms of academic ethics. To study the course, students need to have their personal computer and (or) use computers of the computer center at the department. Students must work with compulsory and recommended reading, including Internet resources. Students must complete and submit all Practical works during the semester in which the course is taught, before the examination session. The final assessment is not carried out without the personal presence of students.

COURSE STRUCTURE AND CONTENT

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| Lecture 1 | Entrepreneurship as a modern form of economic activity | Practical work 1 | Entrepreneurs. | Self-study | Elaboration of lecture material Preparation for Practical classes Independent study of topics and issues that are not taught in lectures |
| Lecture 2 | Theoretical principles of entrepreneurial activity | | | | |
| Lecture 3 | Characteristics of business entities | Practical work 2 | Preparatory stage in business | | |
| Lecture 4 | Entrepreneurial idea and goals of entrepreneurship | | | | |
| Lecture 5 | Entrepreneurial environment | Practical work 3 | Development of a commercial idea. | | |
| Lecture 6 | Business planning and strategy development | | | | |

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| Lecture 7 | Organizational and legal bases of entrepreneurial activity | Practical work 4 | Development of constituent documents for the creation of a business entity - a legal entity | |
| Lecture 8 | Formation of business relations | | | |
| Lecture 9 | Features of marketing policy in business | Practical work 5 | Development of marketing policy | |
| Lecture 10 | Psychology and ethics of entrepreneurship | | | |
| Lecture 11 | Financial environment of entrepreneurship | Practical work 6 | Calculation of business risk. | |
| Lecture 12 | Business security and business risks | | | |
| Lecture 13 | Evaluating the effectiveness of entrepreneurial activity | Practical work 7 | Evaluation of efficiency | |
| Lecture 14 | Internet technologies in carrying out business activities | | | |
| Lecture 15 | Features of entrepreneurship in various industries and types of business activities | Practical work 8 | Forms of interaction of business entities | |
| Lecture 16 | Forms of organization of interaction of | | | |

RECOMMENDED READING

Compulsory

1. Som Bathla. (2019). Think With Full Brain: Strengthen Logical Analysis, Invite Breakthrough Ideas, Level-up Interpersonal Intelligence, and Unleash Your Brain's Full Potential (Power-Up Your Brain) Paperback.
2. Ray Dalio.(2017). Principles: Life and Work Hardcover. Illustrated.
3. Gabriel Weinberg. (2015). Justin Mares.Traction: How Any Startup Can Achieve Explosive Customer Growth Kindle Edition.
4. Peter Thiel. (2014). Blake Masters Zero to One: Notes on Startups, or How to Build the Future Hardcover, 224 p.
5. Nate Silver. (2015). The Signal and the Noise: Why So Many Predictions Fail, but Some Don't Paperback.
6. Злупко, С. М., Стефанишин, О. В., Швайка, Л. А. (2017). Підприємство: основи, особливості, механізми: навч. посібник. Ленінград, 370 с.
7. Покропивний, С. Ф., Колот, В. М. (2017). Підприємство: стратегія, організація, ефективність: навч. посібник. Київ: Вид-во кнеу, 352 с.

Recommended

1. Бусыгин, А. В. (2017). Предпринимательство: основной курс: учебник для вузов. Москва: Инфра-м, 608 с.
2. Дашков, Л. П., Данилов, А. И., Тютюкина, Е. Б. (2016). Предпринимательство и бизнес: учеб. пособие. Москва: Ивц — маркетинг, 2016, 304 с.
3. Климко, О. Ковалко, А. (2018). Власна справа: навч.-метод.: посібник. Київ: Юніверс, 108 с.
4. Мочерний, С. В., Устенко, О. А., Чеботар, С. І. (2015). Основи підприємницької діяльності: посібник. Київ: Академія, 280 с.
5. Онищенко, Т. (2017). Предпринимательская деятельность без создания юридического лица. 3-е изд., перераб. и доп. Харьков: Фактор, 376 с.
6. Арустамов, Э. А., Пахомкин, А. Н., Платонов А. П. и др. (2016). Организация предпринимательства. Москва: Маркетинг, 250 с.
7. Горфинкель, В. Я., Поляк, Г. Б., Швандер, В. А. (ред.) (2017). Предпринимательство: учебник для вузов. Москва: Банки и Биржи; юнити, 476 с.

Academic integrity

Graduate students are expected to adhere to the Code of Ethics of Academic Relations and Integrity” of NTU “KhPI”.

The content of this syllabus is consistent with the course program.