



Syllabus Course Program



Fundamentals of Entrepreneurship

Specialty

121 – Software Engineering
122 – Computer Science

Educational program

Software Engineering
Computer Science and Intelligent Systems

Level of education

Bachelor's level

Semester

3

Institute

Institute of Computer Science and Information
Technology

Department

Software Engineering and Management Intelligent
Technologies (321)

Course type

Special (professional), Mandatory

Language of instruction

English, Ukrainian

Lecturers and course developers



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Web of Science: <https://www.webofscience.com/wos/author/record/T-7377-2018>

[More about the lecturer on the department's website](#)

General information

Summary

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.

Course objectives and goals

Formation of students' theoretical and practical knowledge necessary for entrepreneurship, to give an understanding of the essence of entrepreneurship, its types, types, properties and functions. Entrepreneurs and the business environment are studied.

Format of classes

Lectures, laboratory classes, self-study, consultations. Final control in the form of a credit.

Competencies

121 - Software engineering

K01. Ability to abstract thinking, analysis and synthesis.
K02. Ability to apply knowledge in practical situations.
K03. Ability to understand the subject area and professional activities.
K05. Ability to learn and master modern knowledge.
K06. Ability to search, process and summarize information from various sources.
K21. Ability to evaluate and take into account economic, social, technological and environmental factors affecting the field of professional activity.

122 - Computer Science

GC7. Ability to search, process and analyze information from various sources.
GC10. Ability to be critical and self-critical.
PC6. Ability to think systematically, apply the methodology of system analysis to study complex problems of different nature, methods of formalization and solution of systemic problems with conflicting goals, uncertainties and risks.
PC15. Ability to analyze and functional modeling of business processes, build and apply functional models of organizational, economic, production and technical systems, methods of risk assessment of their design.

Learning outcomes

121 - Software engineering

PO24. Be able to calculate the economic efficiency of software systems.

122 - Computer science

PLO8. To use the methodology of system analysis of objects, processes and systems for the tasks of analysis, forecasting, management and design of dynamic processes in macroeconomic, technical, technological and financial objects.

Student workload

The total volume of the course is 120 hours (4 ECTS credits): lectures – 32 hours, laboratory classes – 32 hours, self-study – 56 hours.

Course prerequisites

Students must complete the required general and professional training courses in 1-2 semesters of study in full.

Features of the course, teaching and learning methods, and technologies

Teaching and learning methods:

interactive lectures with presentations, discussions, laboratory classes, teamwork, case method, student feedback, problem-based learning.

Forms of assessment:

written individual assignments for laboratory work (CAS), assessment of knowledge in laboratory 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).

Program of the course

Topics of the lectures

Topic 1. Entrepreneurship as a modern form of economic activity
Topic 2. Theoretical principles of entrepreneurial activity
Topic 3. Characteristics of business entities
Topic 4. Entrepreneurial idea and goals of entrepreneurship
Topic 5. Entrepreneurial environment
Topic 6. Business planning and strategy development
Topic 7. Organizational and legal bases of entrepreneurial activity
Topic 8. Formation of business relations
Topic 9. Features of marketing policy in business

- Topic 10. Psychology and ethics of entrepreneurship
- Topic 11. Financial environment of entrepreneurship
- Topic 12. Business security and business risks
- Topic 13. Evaluating the effectiveness of entrepreneurial activity
- Topic 14. Internet technologies in carrying out business activities
- Topic 15. Features of entrepreneurship in various industries and types of business activities
- Topic 16. Forms of organization of interaction of business entities

Topics of the workshops

Workshops are not provided within the discipline.

Topics of the laboratory classes

- Topic 1. Entrepreneurs
- Topic 2. Preparatory stage in business
- Topic 3. Development of a commercial idea
- Topic 4. Development of constituent documents for the creation of a business entity - a legal entity
- Topic 5. Development of marketing policy
- Topic 6. Calculation of business risk
- Topic 7. Evaluation of efficiency
- Topic 8. Forms of interaction of business entities

Self-study

Individual assignments are not provided in the curriculum.

Students are recommended with additional materials (videos, articles) for self-study and processing.

Course materials and recommended reading

Key literature

1. Bathla, S. (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. Heidi M. Neck, Christopher P. Neck, Emma L. Murray (2020) Entrepreneurship: The Practice and Mindset. (2nd edition)
3. Bruce r. Barringer, (2019) Entrepreneurship: Successfully Launching New Ventures (6th edition)
4. Robert Hisrich, Michael Peters, Dean Shepherd, (2019) Entrepreneurship (11th Edition).

Additional literature

5. Charles E. Bamford, Garry D. Bruton Dr. (2021) ISE ENTREPRENEURSHIP: The Art, Science, and Process for Success
6. Brian Tracy (2019) Entrepreneurship: How to Start and Grow Your Own Business.

Assessment and grading

Criteria for assessment of student performance, and the final score structure

100% Final assessment as a result of Final exam (30%) and Continuous assessment (70%).

30% Final exam

70% Continuous assessment:

Module №1 (10%)

Module №2 (20%)

Laboratory works (40%)

Laboratory work №1 (5%)

Laboratory work №2 (5%)

Laboratory work №3 (5%)

Laboratory work №4 (5%)

Laboratory work №5 (5%)

Laboratory work №6 (5%)

Laboratory work №7 (5%)

Laboratory work №8 (5%)

Grading scale

Total points	National	ECTS
90-100	Excellent	A
82-89	Good	B
75-81	Good	C
64-74	Satisfactory	D
60-63	Satisfactory	E
35-59	Unsatisfactory (requires additional learning)	FX
1-34	Unsatisfactory (requires repetition of the course)	F

Norms of academic integrity and course policy

The student must adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI": to demonstrate discipline, good manners, kindness, honesty, and responsibility. Conflict situations should be openly discussed in academic groups with a lecturer, and if it is impossible to resolve the conflict, they should be brought to the attention of the Institute's management.

Regulatory and legal documents related to the implementation of the principles of academic integrity at NTU "KhPI" are available on the website: <http://blogs.kpi.kharkov.ua/v2/nv/akademichna-dobrochesnist/>

Approval

Approved by 08.06.2023

Head of the department
Ihor HAMAIUN

08.06.2023

Guarantors of the educational programs
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