Syllabus

selective component VC

(notation EC in the educational program (EP))

Development of startups

Discipline name:	Development of startups
Level of higher education:	first (bachelor's degree)
Course page in Moodle:	https://dl2022.khadi- kh.com/course/view.php?id=4038
The scope of the educational component	4 credits (120 hours)
Final control form	Test
Consultations:	on schedule
Name of the department:	department of computer technologies and mechatronics
Language of teaching:	English
Head of the course:	Kulakova Liudmyla, assistant
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Brief content of the educational component:

The goal is the formation of competencies necessary for the development and implementation of startups, the formation of management decisions regarding the development and implementation of innovative products, the use of modern technologies and software and technical tools in the development and implementation of startups.

Subject: a pedagogically adapted system of concepts about the principles of construction and the structure of the startup development process and the features of their application.

The main tasks of studying the academic discipline are:

- formation of knowledge about the theoretical and methodological foundations of the development of startups;
- formation of knowledge about the principles, laws and technology of building the structure and schedule of development of startups;
- formation of skills for creating and using a startup resource base in a specialized software environment;
- formation of skills for analysis of the startup plan, its optimization and computer tracking of the startup implementation.

Competencies acquired by the acquirer:

General competences:

Ability to conduct research at an appropriate level.

Ability to abstract thinking, analysis and synthesis.

Ability to write and speak in Ukrainian and foreign languages.

Special (professional) competences:

The ability to develop and implement startup projects, knowledge of scientific and theoretical provisions regarding the development and implementation of startup projects,

the ability to form management decisions regarding the development and implementation of innovative products, the ability to use modern technologies and software and technical tools in the development and implementation of startups.

Learning outcomes:

Develop and implement startup projects.

Use scientific and theoretical provisions regarding the development and implementation of start-up projects.

Form management decisions regarding the development and implementation of innovative products.

Use modern technologies and software and technical tools in the development and implementation of startups.

Thematic plan

	i nematic pian		
		Number of	
Nº topics	Name of topics (Lc, Pw, Ss)	ho	urs
		ocular	extram
			ural
	Lc Formation and development of a business idea and a startup	2	
	product		
1	Pw Research on the formation and development of a business	2	
	idea and a startup product		
	Ss Approaches to the development of a startup project idea. The	11	
	main stages of creation and implementation of a startup project		
	Lc Marketing of startups	2	
2	Pw Research on the marketing of startups	2	
	Ss "Road map" of developers of startup projects in the conditions	11	
	of the information society		
	Lc 3 Business modeling of a startup	2	
3	Pw Business modeling of a startup	2	
	Ss Approaches to technological audit in start-up projects	11	
	Lc 4 Market segmentation and selection of the target market	2	
4	Pw Market segmentation research	2	
	Ss Study of methods of choosing the target market	11	
	Lc 5 Identification of the consumer and calculation of the volume	2	
5	of the target market		
	Pw Calculation of the volume of the target market	2	
	Ss Research methods Consumer identification	11	
	Lc 6 Assessment of the effectiveness of a startup project	2	
6	Pw Study of the effectiveness of a startup project	2	
	Ss General provisions of the strategic management process	11	
	Lc 7 Management of investment support for a startup.	2	
7	Pw Study of the process of managing the investment support of	2	
	a startup.		
	Ss Analysis of external and internal factors of launching startup	11	
	projects		
8	Lc 8 Legal and legal features of the implementation of startups.	2	
	Pw Study of the legal and legal features of the implementation of	2	
	startups.		
	Ss Approaches to technological audit in start-up projects	11	
Total	Lections	16	

Practical works	16	
Self-study	88	

Individual educational and research task (if available): not provided.

Teaching methods:

- 1) verbal: 1.1 traditional: explanation, story, conversation, etc;
 - 1.2 interactive (non-traditional): problem solving, discussions, etc;
- 2) visual: the method of illustrations, the method of demonstrations;
- practical: 3.1 traditional: practical classes;
 - 3.2 interactive (non-traditional): business and role-playing games, trainings, discussions, «round table», brainstorming method.

Evaluation system and requirements: Current performance

- 1 The current success of applicants for the performance of educational types of work in training sessions and for the performance of independent work tasks is evaluated using a four-point rating scale with subsequent transfer to a 100-point scale. During the evaluation of the current academic performance, all types of work provided by the educational program are taken into account.
- **1.1** Lecture classes are evaluated by determining the quality of performance of specified tasks.
- **1.2** Practical classes are evaluated by the quality of performance of a control or individual task, performance and design of practical work.
- **1.3** Laboratory classes are evaluated by the quality of reports on the performance of laboratory work.
- **1.4** Seminar classes are evaluated by the quality of individual assignment/abstract.
- **2** The current performance of higher education applicants is assessed at each practical session (laboratory or seminar) on a four-point scale ("5", "4", "3", "2") and entered in the journal of academic performance.
- "excellent": the winner mastered the theoretical material flawlessly, demonstrates deep knowledge of the relevant topic or academic discipline, the main provisions;
- "good": the applicant has mastered the theoretical material well, has the main aspects from primary sources and recommended literature, presents it in a reasoned way; has practical skills, expresses his thoughts on certain problems, but certain inaccuracies and errors are assumed in the logic of the presentation of theoretical content or in the analysis of practical ones;
- "satisfactory": the applicant has basically mastered the theoretical knowledge of the educational topic or discipline, orients himself in primary sources and recommended literature, but answers unconvincingly, confuses concepts, answers additional questions uncertainly, does not have stable knowledge; when answering questions of a practical nature, reveals inaccuracy in knowledge, does not know how to evaluate facts and phenomena, connect them with the future profession;
- "unsatisfactory": the applicant has not mastered the educational material of the topic (discipline), does not know scientific facts, definitions, hardly orients himself in primary sources and recommended literature, lacks scientific thinking, practical skills are not formed.
- **3** The final score for the current activity is recognized as the arithmetic mean sum of points for each lesson, for individual work, current control works according to the formula:

$$K^{current} = \frac{K1 + K2 + ... + Kn}{n}$$

current

where K — final assessment of success based on the results of current control; K1, K2, ..., Kn — performance evaluation n measure of current control;

n – number of ongoing control measures.

Grades are converted into points according to the calculation scale (table 1).

Table 1 – Recalculation of the average grade for the current activity into a multipoint scale

4- point scale	100- point scale	4- point scale	100- point scale	4- point scale	100- point scale	4- point scale	100- point scale
5	100	4,45	89	3,90	78	3,35	67
4,95	99	4,4	88	3,85	77	3,3	66
4,9	98	4,35	87	3,80	76	3,25	65
4,85	97	4,3	86	3,75	75	3,2	64
4,8	96	4,25	85	3,7	74	3,15	63
4,75	95	4,20	84	3,65	73	3,1	62
4,7	94	4,15	83	3,60	72	3,05	61
4,65	93	4,10	82	3,55	71	3	60
4,6	92	4,05	81	3,5	70	from 1.78 to 2.99	from 35 to
							59
						reassen	nbly
4,55	91	4,00	80	3,45	69	from 0 to 1,77	from 0 to 34
4,5	90	3,95	79	3,4	68	repeated	study

Final assessment

1 A student of higher education receives a credit in the last lesson in the discipline based on the results of the current assessment. The average score for the current activity is converted into points on a 100-point scale, according to the conversion table (table 1). Applicants for higher education who have a current grade point average in the discipline lower than "3" (60 points) can increase their current grade by taking tests in the discipline in the last session.

Assessment of the knowledge of applicants through testing is carried out according to the following scale:

- "Excellent": at least 90% of correct answers;
- "Very good": from 82% to 89% of correct answers;
- "Good": from 74% to 81% of correct answers;
- "Satisfactory": from 67% to 73% of correct answers;
- "Satisfactory enough": from 60% to 66% of correct answers;
- "Unsatisfactory": less than 60% of correct answers.
- 2 The condition for obtaining credit is:
- making up for all missed classes;
- the average current grade in the discipline is not lower than "3" (60 points).
- 3 For performing individual independent work and participation in scientific events, additional points are awarded to the winners.
- 3.1 Additional points are added to the sum of points scored by the student of higher education for the current educational activity (for disciplines for which the final form of control is a credit), or to the final grade in the discipline for which the final form of control

is an exam.

- 3.2 The number of additional points awarded for different types of individual tasks depends on their volume and importance:
- prizes in the discipline at the international / all-Ukrainian competition of scientific student works 20 points;
- prize places in the discipline at the All-Ukrainian Olympiads 20 points;
- participation in the international / all-Ukrainian competition of scientific student works 15 points
- participation in international / all-Ukrainian scientific conferences of students and young scientists - 12 points;
- participation in all-Ukrainian Olympiads in the discipline 10 points
- participation in Olympiads and scientific conferences of the Khnadu in the discipline 5 points;
- performance of individual scientific and research (educational and research) tasks of increased complexity 5 points.
- 3.3 The number of additional points cannot exceed 20 points.
- 4 The learning result is evaluated (select is required):
- on a two-point scale (passed/failed) according to table 2;
- on a 100-point scale (for differentiated assessment) according to table 3.

The final grade together with additional points cannot exceed 100 points.

Table 2 – The scale for transferring points to the national evaluation system

On a 100-point scale	On a national scale
from 60 points to 100 points	passed
less than 60 points	fail

Table 3 – The scale for evaluating the knowledge of students based on the results of the final control of the academic discipline

Score	Evaluation on a national scale		Evaluation according to the ECTS scale			
in points			Estimation	Criteria		
	exam	test				
90-100	Excellent	Passed	A	The theoretical content of the course has been mastered in its entirety, without gaps, the necessary practical skills for working with the mastered material have been formed, all educational tasks provided for in the training program have been completed, the quality of their performance has been assessed with a number of points close to the maximum		
80–89	Good	Passed	В	The theoretical content of the course has been mastered in its entirety, without gaps, the necessary practical skills for working with the mastered material have mainly been formed, all educational tasks provided for by the training program have been completed, the quality of most of them has been assessed with a number of points close to the maximum		

Score		ion on a	Evaluation according to the ECTS scale		
in points	national scale		Estimation Criteria		
μοιπιδ	exam	test			
75-79			С	The theoretical content of the course has been mastered in its entirety, without gaps, some practical skills of working with the mastered material have not been formed enough, all educational tasks provided for by the training program have been completed, the quality of none of them has been assessed with a minimum number of points, some types of tasks have been completed with errors	
67-74	Satisfactorily		D	The theoretical content of the course is partially mastered, but the gaps are not of a significant nature, the necessary practical skills for working with the mastered material are basically formed, most of the educational tasks provided by the training program have been completed, some of the completed tasks may contain errors	
60–66	Satis		E	The theoretical content of the course has been partially mastered, some practical work skills have not been formed, many educational tasks provided by the training program have not been completed, or the quality of some of them has been evaluated with a number of points close to the minimum.	
35–59	Unsatisfactorily	Not passed	FX	The theoretical content of the course has been partially mastered, the necessary practical work skills have not been formed, most of the prescribed training programs of educational tasks have not been completed, or the quality of their implementation has been assessed with a number of points close to the minimum; with additional independent work on the course material, it is possible to improve the quality of the performance of educational tasks (with the possibility of retaking)	
0-34	Fail	Š	F	The theoretical content of the course has not been mastered, the necessary practical work skills have not been formed, all completed educational tasks contain gross errors, additional independent work on the course material will not lead to any significant improvement in the quality of the performance of educational tasks (with a mandatory repeat course).	

Course policy:

- the course involves working in a team, the environment in the classroom is friendly, creative, open to constructive criticism;
- mastering the discipline involves mandatory attendance of lectures and practical classes, as well as independent work;
- independent work involves the study of individual topics of the academic discipline, which are presented in accordance with the program for independent study, or were considered briefly;
- all tasks provided by the program must be completed within the set time;
- if the student of higher education is absent from classes for a good reason, he presents the completed tasks during independent preparation and consultation of the teacher;
- the coursework must be protected no later than a week before the beginning of the examination session (indicated if available);
- while studying the course, students of higher education must comply with the rules of academic integrity set forth in the following documents: «Rules of academic integrity of participants in the educational process of the Khnadu» (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_dobroch_ 1.pdf), «Academic integrity. Checking the text of academic, scientific and qualification papers plagiarism» (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_85_1_01.pdf), «Moral and ethical code of participants in the educational process of the Khnadu (https://www.khadi.kharkov.ua/fileadmin/P Standart/pologeniya/stvnz 67 01 MEK 1.p
- in case of detection of plagiarism, the applicant receives 0 points for the task and must repeat the tasks provided for in the syllabus;
- writing off during tests and exams is prohibited (including using mobile devices). Mobile devices are allowed to be used only during online testing.

Recommended literature:

- 1. Bhargava R., Heeman W. The Startup Playbook: Founder-to-Founder Advice From Two Startup Veteransc. Lioncrest, 2017, 420 p
- 2. Dligach A.A. System-Reflexive Strategic Marketing. Mechanisms of Interaction Competitiveness and Innovations in Modern International Economic Relations: collective monograph / edited by M. Bezpartochnyi, in 4 Vol. / ISMA University. Riga: Landmark SIA, 2017. Vol. 2. 251 p.
- 3. Glińska-Neweś Aldona, Escher Iwona, Brzustewicz Paweł, Szostek Dawid, Petrykowska Joanna. Relationship-focused or deal-focused? Building interpersonal bonds within B2B relationships. Czasopismo: Baltic Journal of Management, 2018. Vol. 13. №4. P. 508-527. ISSN: 1746-5265. DOI: 10.1108/BJM-02-2017-0038.

Additional sources:

1. Distance course:

https://dl2022.khadi-kh.com/course/view.php?id=4038

- 2. Thiel's P. Startup CS183. Notes Essay. URL: https://gist.github.com/harperreed/3201887.
- 3. Gans J, Erin L. Scott, Stern S. Strategy for Start-ups. Harvard Business Review. 2018. №5. URL: https://hbr.org/2018/05/do-entrepreneurs-need-astrategy#strategy-for-start-ups.
- 4. Alexander L. 7 Modern Marketing Frameworks Every Startup Needs to Know. Semrush. URL: https://www.semrush.com/blog/7-modern-marketingframeworks-every-startup-know

Developer (developers)			
the syllabus of the academic discipline _		_ Kulakova Liudmyla	
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Head of Department		Nikonov Oleg	
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