SYLLABUS OF AN ACADEMIC DISCIPLINE «PRODUCTION SYSTEMS MANAGEMENT»



Lecturer of the discipline:

Lecturer's contact information (e-mail)
URL of the e-learning course on the
NULES e-learning portal

Academic degree - Bachelor's Specialty 073 Management Academic programme «Management» Year of study 3, semester 5 Form of study full-time, part-time Кількість кредитів ЄКТС: 5 Language(s) of instruction: English

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https://elearn.nubip.edu.ua/enrol/index.php?id=3751

ACADEMIC DISCIPLINE DESCRIPTION

Where to start studying the world of management? How to open the door to an interesting and dynamic world The educational component "Production Systems Management" is an elective discipline in the specialty "Investment and International Project Management", the purpose of which is to master a set of knowledge about production and its organization, analyze bottlenecks in production systems and develop proposals for their elimination, plan, design, structure and implement a process-oriented work organization, obtain actual time data and calculate lead times Use appropriate tools to build an effective labor remuneration system.

The purpose of studying the discipline "Management of Production Systems": to acquire a set of knowledge about production and its organization, to analyze bottlenecks in production systems and develop proposals for their elimination, to plan, design, structure and implement a process-oriented organization of work, to obtain actual time data and calculate the lead time, to professionally rate work and differentiate remuneration for work based on the result. Use the appropriate tools to build an effective remuneration system.

Competences of the discipline:

Integral competence (IC): the ability to solve complex specialized tasks and practical problems characterized by complexity and uncertainty in the field of management or in the learning process, which involves the application of theories and methods of social and behavioral sciences.

General competences (GC):

- GC 2. Ability to preserve and increase moral, cultural, scientific values and increase the achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, to use various types and forms of physical activity for active recreation and healthy lifestyle.
 - GC 5 Knowledge and understanding of the subject area and understanding of professional activities. *Special (professional) competences (SC):*
 - СК 4. Вміння визначати функціональні області організації та зв'язки між ними.
 - СК 8. Здатність планувати діяльність організації та управляти часом.

Expected Learning Outcomes (ELO):

- ПРН 3. Демонструвати знання теорій, методів і функцій менеджменту, сучасних концепцій лідерства.
 - ПРН 5. Описувати зміст функціональних сфер діяльності організації.
 - ПРН 7. Виявляти навички організаційного проектування.
- ПРН 8. Застосовувати методи менеджменту для забезпечення ефективності діяльності організації.

ACADEMIC DISCIPLINE STRUCTURE

		CADEMIC DISCIPLINE STRU			
Tonio	Hours	I coming outcomes	Tasks	Aggagamant	
Topic	(lectures/laborator	Learning outcomes	1 asks	Assessment	
	y, practical, seminars)				
	Semmars)				
		1 semester			
Module 1 Product	tion system of t	he organization, production man	agement and mana	gement of the	
	curr	ent functioning of the production	n system		
Topic1.	1/3	Know the basic scientific	Writing tests	15	
Fundamentals and		principles of production	and essays.		
organization of		management. Management	Performing		
production		objectives. Characteristics of	independent		
management		management science.	work		
		Analyze the patterns and	WOIK		
		principles of management.			
Theme 2.	2/4	 	Execution and	15	
Production program	2/-		delivery of	13	
		production program.	delivery of		
and		A malauma tha imdiaatama af	practical,		
program and production		commodity among modified not	μ ′		
r e		and conditionally net products	independent		
strategy		The concept of assortment and	work (including in		
of the enterprise		nomenclature.	elearn)		
			Writing		
	2/4		tests.	1.7	
Topic 3.	2/4	Розуміти поняття виробничої	Execution and	15	
Production system		системи та виробничого	delivery of		
and			practical,		
system and		процесу, видова класифікація	independent		
production		та основні складові.	work (including in elearn)		
processes at the		Формування виробничого	Writing		
enterprise		процесу та його структура.	tests.		
		Аналізувати принципи	tests.		
		раціональної організації			
		виробничого процесу.			
		Характеристика виробничого			
		циклу: склад і структура.			
Topic 4.	2/4	Know the concepts and	Execution and	15	
Production capacity		, J	delivery of		
and		* * *	practical,		
capacity and		enterprise:	independent		
production			work (including in		
potential		1 7	elearn)		
enterprises			Writing		
_		1 1	tests.		
		enterprise. Justification of the production program by the			
		production program by the production capacity of the			
		enterprise.			
Module 2. Management of business activities of the enterprise					
Topic 5.	4/2	Know the concept and basic	Execution and	15	
Management of		characteristics of material	delivery of		
			· 1		

lmotorial and	1	and technical resources.	practical,	
material and technical		Characteristics of the system	independent	
		management of material	work (including in	
resources		resources of the enterprise.	elearn)	
of the enterprise		Theoretical foundations of the	Writing	
		system	tests.	
		management of technical	icsis.	
		resources of the enterprise.		
		Methodological approaches to		
		evaluation of technical		
		resources.		
Topic 6.	2/2	Know the concept of	Execution and	15
Management of	·	organizational	delivery of	
organizational		system, organizational	practical,	
resources and		resources and organizational	independent	
		and organizational reserves of the	work (including in	
production		enterprise.	elearn)	
infrastructure		Analyze the main	Writing	
enterprises		indicators of the state and	tests.	
		development		
		of the organizational system and		
		its		
		elements. The composition,		
		nature and		
		tasks of the production		
		infrastructure.		
Topic 7.	2/4	Understand the concepts of	Execution and	15
Management of		quality and technical level of	delivery of	
product quality of		products.	practical,	
the enterprise		Quality level and indicators	independent	
		absolute, relative,	work (including in	
		prospective and	elearn)	
		optimal level of quality.	Writing	
		Analyze the main quality indicators (single,	tests.	
		complex and generalized),		
		their characteristics.		
		Standardization and		
		certification (mandatory and		
		voluntary) of products.		
Topic 8.	2/3	Be able to assess the financial	Execution and	15
Management of		and	delivery of	
effectiveness		economic condition and	practical,	
and efficiency		performance of the	independent	
of production		of the enterprise. Apply	work (including in	
activity		factors to improve	elearn)	
of enterprises		production efficiency at the	Writing	
or emerprises		the enterprise.	tests.	
Всього за семестр				70
Екзамен				30
Всього за курс				100

ASSESSMENT POLICY

Deadlines and exam retaking policy:	Works that are submitted late without valid reasons will be assessed with a lower grade. Module tests may be retaken with the permission of the lecturer if there are valid reasons (e.g. a sick leave).
Academic integrity policy:	Cheating during tests and exams is prohibited (including using mobile devices). Term papers and essays must have correct references to the literature used
Attendance policy:	Attendance is compulsory. For good reasons (e.g. illness, international internship), training can take place individually (online by the faculty dean's consent)

SCALE FOR ASSESSING STUDENTS 'KNOWLEDGE AND SKILLS

Student's rating,	National grading of exams and credits		
points	exams	credits	
90-100	excellent	pass	
74-89	good	_	
60-73	satisfactorily		
0-59	unsatisfactorily	fail	

RECOMMENDED SOURCES OF INFORMATION

- 1. Chopra, S., Meindl, P. Supply Chain Management: Strategy, Planning, and Operation. Pearson. 2020.
- 2. Heizer, J., Render, B., Munson, C. Operations Management: Sustainability and Supply Chain Management. Pearson. 2020.
- 3. Jacobs, F.R., Chase, R.B. Operations and Supply Chain Management. McGraw-Hill Education. 2022.
- 4. Krajewski, L.J., Ritzman, L.P., Malhotra, M.K. Operations Management: Processes and Supply Chains. Pearson. 2021.
 - 5. Meredith, J.R., Shafer, S.M. Operations Management for MBAs. Wiley. 2021.
 - 6. Nahmias, S., Olsen, T.L. Production and Operations Analysis. Waveland Press. 2020.
 - 7. Russell, R.S., Taylor, B.W. Operations and Supply Chain Management. Wiley. 2021.
- 8. Schroeder, R.G., Goldstein, S.M., Rungtusanatham, M.J. Operations Management in the Supply Chain: Decisions and Cases. McGraw-Hill Education. 2019.
 - 9. Slack, N., Brandon-Jones, A., Johnston, R. Operations Management. Pearson. 2019.
 - 10. Stevenson, W.J. Operations Management. McGraw-Hill Education. 2020.
- 11. Бойко В.М., Сивак С.В. Організація і управління виробництвом: навч. посіб. Київ: Видво КНЕУ. 2020. 370 с.
- 12. Демченко М.М., Іванова Т.В. Виробничий менеджмент: підручник. Київ: КНЕУ. 2023. 355 с.
- 13. Зайцев €.В., Головко В.І. Управління виробничими процесами: підручник. Київ: КНЕУ. 2021. 428 с.
 - 14. Іноземні джерела:
- 15. Козак М.Р., Петрова А.С. Управління ефективністю виробництва: навч. посіб. Київ: Центр учбової літератури. 2022. 342 с.
- 16. Кузьмін О.Є., Мельник А.В. Менеджмент виробничих процесів: підручник. Львів: ЛНУ ім. І. Франка. 2019. 315 с.
- 17. Марченко І.М., Гончарук В.І. Виробничі системи і процеси: підручник. Тернопіль: ТНЕУ. 2019. 400 с.

- 18. Олексійчук В.В., Мироненко О.О. Моделювання виробничих процесів: підручник. Харків: Вид-во ХНУ ім. В.Н. Каразіна. 2021. 298 с.
- 19. Семенюк І.П., Гринюк І.Л. Інноваційні технології в управлінні виробництвом: навч. посіб. Одеса: ОНУ ім. І.І. Мечникова. 2020. 327 с.