

- statement is not fluent;
- if you get complex and confusing answers to scientific questions
- if the subject text is not properly formatted;
- d) To obtain a grade of "4", the student's level of knowledge must meet the following criteria:
 - if there is no preparation for science teaching;
 - if he does not have an idea about teaching science;
 - if it is perceived that he copied the subject texts from others;
 - there are serious errors and inaccuracies in the scientific text;
 - if there is no answer to science questions;
 - if he does not know science.

A Hemis student will be assessed as follows:

0 - 59 points assess as "2", 60 - 69 points assess as "3",
70 - 89 points assess as "4", 90 - 100 points assess as "5".

Information about the teacher of the discipline

Teacher:	Uzakova Vazira
E – mail:	
Organization:	SamSI, Department of Digital Economy.
Peer reviewers:	Bakayev Z.T. - SamSI, Head of the "Digital Economy" Department, Institute of Human Resources Management and Community Development, Associate Professor, Doctor of Philosophy in Economics (external); Halimov Sh.Kh. - Head of OK "Everest Super Star".

This Syllabus was approved by the minutes of meeting No. 1 of the Institute's Educational and Methodological Council dated August 28, 2024.

This Syllabus was approved by the minutes of meeting No. 1 of the Department of Digital Economics of the Institute dated August 28, 2024

Head of the educational and

methodological department :

Dean of the Faculty:

"Digital economy"

Head of the department:

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MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION OF
THE REPUBLIC OF UZBEKISTAN

SAMARKAND INSTITUTE OF ECONOMICS AND SERVICE



«APPROVED»

By the Vice-rector for Academic

Affairs T.S. Sharipov

2024 year

SYLLABUS OF DISCIPLINE

“DIGITAL ECONOMICS”

For day and evening education

Knowledge area:

300000 Social sciences, journalism and information

Field of education:

310000 Social and behavioral sciences

Direction of education:

60310100 Economics (by branches and areas)

SAMARKAND – 2024



**Module / SYLLABUS
OF THE SUBJECT**
Faculty of Economics
Department of secondary and evening education
60310100 - Economics (by branches and areas)

Name of the subject :	Digital economics
Type of subject :	Mandatory
Subject code :	DIGECO06
Year:	2
Semester:	4
Form of education:	Full time
Hours allocated for semester classes:	180
Lecture	36
Practical training	36
Laboratory training	-
Seminar	-
Independent education	108
Amount of credit:	6
Form of evaluation:	Exam
Language of education:	English

The purpose of discipline(PD)

PD1	Teaching students the role and importance of digital economy in business and social spheres; formation of knowledge, skills and competencies corresponding to the profile of the course in the field of digitalization of business processes, business models, e-commerce, and the use of blockchain technologies. The purpose of the course is also to develop modern economic thinking among students and to study the consequences of the introduction of information and communication technologies in the practical spheres of society from the point of view of the economic system.
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Basic knowledge necessary to master the discipline

1.	ECONTH06 Economic theory
2.	INNECO Innovative economics
3.	ICTEC06 Information and communication technologies and systems in the economy

Learning Outcomes (LO)

In terms of knowledge:	
LO 1	Basic principles of scientific research of specific forms and types of digital economy; to be able to correctly assess and model the situation, taking into account the institutional and regulatory legal features;
LO 2	To have an idea about the organizational and methodological foundations of the development of the digital economy in the Republic of Uzbekistan;
LO 3	Identify negative and positive factors of digital transformation and use them effectively;
LO 4	Development of recommendations on increasing the flow of money entering the enterprise and preventing various corrupt situations by increasing the volume of production of products and providing various services in the conditions of the digital economy;
In terms of acquired skills:	
LO 5	Making a conclusion on the issues of ensuring the security of networks based on the in-depth study of the nature of digital technologies and their use;
LO 6	Reasons for the emergence of digital technologies. Gaining an understanding of industrial revolutions, acquiring the necessity and essence of the Internet of Things in the digital economy;
LO 7	Analysis of the state of development of sectors and networks of distributed computing and cloud technologies in the digital economy;
LO 8	Gain practical knowledge and skills to ensure economic security and cyber security in the digital economy.

The content of the subject:

Form of classes : lecture (L)		Hours
L1	Introduction to digital economy and its components	2
L2	Fundamentals of e-business in the digital economy. Features of digital (e-commerce) sales development	2
L3	Cloud technologies and "Big Data" technology in the digital economy	2
L4	Blockchain technologies in the digital economy	2
L5	Cryptocurrency technology and the importance of mining farms in the economy	2
L6	Mobile internet technologies in the digital economy	2
L7	Neurotechnologies and artificial intelligence in the digital economy	2
L8	Internet of things and cognitive technologies in the digital economy	2
L9	Virtual and augmented reality technologies in the digital economy	2

L10	New possibilities of crowdsourcing and crowdfunding in digital business	2
L11	Design Thinking in Digital Business	2
L12	Issues of human capital development in the digital economy. Features of electronic government in Uzbekistan	2
L13	The service sector in the digital economy	2
L14	Development of digital educational platforms	2
L15	Effective use of digital technologies in industry. "Industry-4.0" concept	2
L16	Banking and financial technologies in the digital economy	2
L17	Priority areas and tasks of digital economy development in Uzbekistan	2
L18	Security issues in the digital economy	2
Total:		36
Form of classes : practical classes (P)		
P 1	Introduction to digital economy and its components	2
P 2	Fundamentals of e-business in the digital economy. Features of digital (e-commerce) sales development	2
P 3	Cloud technologies and "Big Data" technology in the digital economy	2
P 4	Blockchain technologies in the digital economy	2
P 5	Cryptocurrency technology and the importance of mining farms in the economy	2
P 6	Mobile internet technologies in the digital economy	2
P 7	Neurotechnologies and artificial intelligence in the digital economy	2
P 8	Internet of things and cognitive technologies in the digital economy	2
P 9	Virtual and augmented reality technologies in the digital economy	2
P 10	New possibilities of crowdsourcing and crowdfunding in digital business	2
P 11	Design Thinking in Digital Business	2
P 12	Issues of human capital development in the digital economy. Features of electronic government in Uzbekistan	2
P 13	The service sector in the digital economy	2
P 14	Development of digital educational platforms	2
P 15	Effective use of digital technologies in industry. "Industry-4.0" concept	2
P 16	Banking and financial technologies in the digital economy	2
P 17	Priority areas and tasks of digital economy development in Uzbekistan	2
P 18	Security issues in the digital economy	2
Total:		36

№	Self study (SS)	Hours
SS1	"Digital Uzbekistan-2030" strategy	2
SS 2	Economic and legal foundations of information technology development in Uzbekistan	2
SS 3	Consistent implementation of innovative ideas, high technologies in production and social life	2
SS 4	Features of digital economy and development of digital economy in foreign countries	2
SS 5	Assessing the relationship between the digital economy and economic growth	2
SS 6	The nature and development features of e-business	2
SS 7	M2M technology is the basis of Internet of Things	2
SS 8	Ecosystem of digital economy	2
SS 9	Electronic commerce (e-commerce) and electronic trade (e-trade) proprietary features and differences	2
SS 10	Mobile commerce (m-commerce)	2
SS 11	Impact of the digital economy on business: opportunities and risks	2
SS 12	Virtual world, "thin client", characteristics of cloud technologies	2
SS 13	Digital economy indicators and their characteristics	2
SS 14	Big data (Big Data) and analytics, database organization mechanism	2
SS 15	Mobile technologies in the digital economy	2
SS 16	Stages of entry and development of mobile devices in the market of Uzbekistan	2
SS 17	Characteristics of mobile technologies entering the corporate network	2
SS 18	The relationship between artificial intelligence and smart media	2
SS 19	Neural network - connection with medicine, psychology, neurophysiology, engineering	2
SS 20	Development of communicative ability - intellectual interface, solving complex, difficult formalizing issues	2
SS 21	Artificial intelligence as a factor of innovative economic development	2
SS 22	Development of artificial intelligence: positive and negative aspects	2
SS 23	Thinking in the management of business processes - features of design	2
SS 24	The essence of virtual and augmented reality technologies	2
SS 25	Problems of AR/VR technology development and features of	2

	the world market	
SS 26	Buy-side and sell-side systems in electronic commerce	2
SS 27	CRM - application and features of technologies	2
SS 28	Characteristics of crowdsourcing and crowdfunding technologies in the business model of modern companies	2
SS 29	Features of building an e-commerce model (B2B, B2C, B2G, C2C, etc.)	2
SS 30	Uzbekistan's place in the UN E-Government Development Index until 2030 and the World Bank's Entrepreneurship Index - the UN's E-Participation Index	2
SS 31	Development of e-learning market and educational platforms	2
SS 32	Development directions of electronic education in Uzbekistan	2
SS 33	Effective use of digital technologies in industry. The concept of Industry 4.0	4
SS 34	The evolution and future of digital marketing	2
SS 35	Advantages and disadvantages of blockchain technologies	4
SS 36	Development of the "Smart City Concept" in Uzbekistan	2
SS 37	Smart cities and their ratings	4
SS 38	Digital security issues and ways to ensure it	2
SS 39	Analysis of the state of e-business in developed countries	4
SS 40	Electronic government. Advantages and disadvantages of providing electronic services in enterprises and organizations	2
SS 41	International standard requirements for quality assurance of digital services (E-SOI)	4
SS 42	Assessment of the development of the digital economy in the Republic of Uzbekistan	4
SS 43	Digital democracy	4
SS 44	Mobile payments and mobile banking	4
SS 45	Digital Analytics: Meaning and Importance.	4
Total:		108

Main literature :	
1.	Маркова В.Д. Цифровая экономика: Учебник для вузов (Базовое образование: бакалавриат). -М: Инфра-М, 2019. -186 стр.
2.	Brynjolfsson E. and KahinB. (editors), Understanding the Digital Economy, The MIT Press, Cambridge, Massachusetts, and London, England, 2000. - 408 p.
2.	R.H. Ayupov, G.R. Boltaboeva. Raqamli iqtisodiyot asoslari. Darslik. T.: TMI, 2020, 575 bet.
3.	K.J. Mirzaev, S.B. Boboqulov, B.K. Janzakov. Raqamli iqtisodiyot. O'quv qo'llanma/ Samarqand: Sam/SI, "STAP-SEL" MChJ. Nashriyot-matbaa bo'limi, - 2022 y. 288 bet.
4.	PorsaeV G'M., Safarov B.Sh., Usmanova D.O. Raqamli iqtisodiyot

	asoslari. Darslik. Samarqand: SamDU nashri, 2020.
Additional literature:	
1.	O'zbekiston Respublikasi Konstitutsiyasi. -T.: O'zbekiston, 2023.
	O'zbekiston Respublikasi Prezidenti Sh.M.Mirziyoyevning "Raqamli
2.	O'zbekiston - 2030" Strategiyasini tasdiqlash va uni samarali amalga oshirish chora-tadbirlari to'g'risida"gi PF-6079-son Farmoni. Toshkent sh. - 2020-yil 5-oktabr. www.lex.uz
3.	Gulyamov S.S., Ayupov R.H. Raqamli iqtisodiyot va elektron tijorat asoslari. T.: TMI, "Iqtisod-Moliya" nashriyoti, 2020, 510 bet.
4.	Abdullaev O.M., Fattaxov A.A., Axmedov K. Raqamli iqtisodiyot. T.: "LESSON PRESS, nashriyoti 2020 yil - 686 bet.

To control the assimilation of the subject by students, the following criteria are recommended:

➤ a) To receive a grade of "5", the student's level of knowledge must meet the following requirements:

- can fully reveal the essence and content of the subject;
- if scientific errors and confusions are not allowed in the presentation of scientific topics while preserving the scientific character and logic;
- does he clearly understand the theoretical or practical importance of science materials in science;
- can demonstrate the ability to think independently and freely in the field of science;

➤ answer questions clearly and precisely;

➤ if the synopsis is carefully prepared;

➤ and clearly completed independent assignments;

➤ fully mastered laws and other legal documents related to science;

➤ can interpret historical processes.

➤ b) To obtain a grade of "4", the student's level of knowledge must meet the following requirements:

➤ does not allow scientific and logical confusion when describing scientific topics;

➤ understood the practical importance of the content of science;

➤ assignments and tasks given in the subject within the curriculum;

➤ can answer science questions correctly;

➤ if he has carefully prepared an outline of the topic;

➤ did he complete independent assignments in science;

➤ if he has mastered laws and other legal documents related to science.

➤ c) a) To receive a grade of "3", the student's level of knowledge must correspond the following criteria:

➤ if he has a general understanding of science;

➤ whether some confusion is allowed in explaining and explaining science topics in a narrow scope;