

Name of subject	Industry Economics and Management (ECTS 4)
Subject/module code	SIM 1604
Science taught semester(s).	6 th semester
Responsible teacher	Rasulov Shavkat Sharof ugli, PhD, Associate Professor
Education language	Uzbek
Connection to the curriculum	Compulsory
Training hours (this including independent education)	Total hours - 120 Contact hours - 48 Lecture hours - 24 Practical training hours - 24 Independent study - 72 hours
ECTS	4
The purpose and tasks of subject / learning outcomes	<p>The purpose of teaching the subject It aims to teach methods of managing the activities of an industrial enterprise in the context of modernization of the economy and structural changes in industrial sectors.</p> <p>The task of the subject The economics of an industrial enterprise is to manage it, increase the costs, income, competitiveness, efficiency of enterprises, assess the level of external and internal factors affecting it, teach the innovative and investment activities of the enterprise, the requirements for the workforce, and develop the skills to apply them in practice. To achieve this goal, the subject performs the tasks of forming students' worldviews in terms of theoretical knowledge and practical skills.</p> <p>Learning outcomes:</p> <p>Without ensuring the reliable operation of the electric power network, it is impossible to increase the industrial potential of economic sectors and regions of the country, stimulate the development of entrepreneurial activity, increase the well-being of the population and improve the quality of life.</p> <p>In modern conditions, the development of a competitive environment in the electric power network and the attraction of investments require a fundamental improvement of the institutional and organizational and legal framework for activities in the field of electricity generation and supply. The discipline "Industrial Economics and Management" is of particular importance in training young specialists who understand both the theoretical and practical essence and significance of the economic foundations of this very important sector, who are able to feel all the innovations and organizational changes in this regard.</p> <p>This discipline program covers the essence and types of the enterprise, its role and significance in a market economy, factors and ways of organizing its rational use, as well as the results of socio-economic reforms in the republic and the impact of regional problems on the management perspective. This discipline plays a special role in the development of industry, in particular, in determining the prospects of an industrial enterprise, in selecting the goals and objectives of forming a modern and rational management system in the enterprise,</p>

	and in assessing the level of external and internal factors affecting the enterprise.
Course content (topics)	<p>I. Main Theoretical Part (Lecture Sessions)</p> <p>Topic 1: The content and tasks of the discipline "Industrial Economics and Management".</p> <p>The subject and object of research of the discipline "Industrial Economics and Management". The goals and tasks of the discipline "Industrial Economics and Management".</p> <p>Topic 2: An enterprise is a market entity conducting independent economic activity.</p> <p>The place and role of an enterprise in the development of the country's economy. Features and tasks of an enterprise. Classification of enterprises. The structure of an enterprise and its determining factors.</p> <p>Topic 3: Production funds and production capacity of industrial enterprises.</p> <p>The economic essence and significance, composition and structure of fixed assets in industrial enterprises. Valuation of fixed assets. Obsolescence of fixed assets. Types of depreciation of fixed assets. Methods for determining the amount of depreciation of fixed assets and depreciation allowances. Indicators of the use of fixed assets and ways to improve them.</p> <p>Topic 4: Working capital of industrial enterprises.</p> <p>Understanding the working capital of industrial enterprises, their composition and structure. The norm of working capital. Indicators of the use of working capital.</p> <p>Topic 5: Personnel of industrial enterprises and labor motivation.</p> <p>Personnel and their description in industrial enterprises. Personnel structure and their planning. Placement of personnel, their advanced training and retraining. The system of organizing wages in industrial enterprises in the conditions of market relations and its functions. The tariff system and its elements. Forms of payment of wages.</p> <p>Topic 6: Organization and management of production at enterprises.</p> <p>The content and essence of the organization of production. Principles and methods of organizing production. Production organization system. Directions for improving the organization of production at the enterprise.</p> <p>Topic 7: Planning at industrial enterprises.</p> <p>The content and essence of planning and forecasting in a market economy. Principles and methods of planning. System of plans in a market economy. Organization of drawing up and approving a production plan. Directions for improving planning at the enterprise.</p> <p>Topic 8: Production costs, product cost and price at industrial enterprises</p> <p>Theory of product cost. Grouping of costs that form the cost of production of products at industrial enterprises. Cost structure, factors influencing it.</p> <p>Topic 9: Investment and innovation of industrial enterprises</p> <p>Topic 10: Three-winding transformers. Switching diagram and its parameters. Transformers with separate windings.</p> <p>Topic 11: Calculation of power flows in simple closed electrical</p>

networks with and without losses.

Topic 12: Calculation of power and voltage distribution in networks supplied from both sides. Calculation of power flows in networks supplied from both sides, taking into account losses. Calculation of voltage distribution in networks supplied from both sides.

Topic 13: The importance of ensuring active power balance in the electrical system. Frequency deviation and oscillation in the electrical system. Permissible frequency deviation value. Frequency adjustment in turbines. Automatic frequency unloader. Frequency adjustment in the electrical system.

Topic 14: Personnel management in industrial enterprises

Subjects and objects of personnel management. Principles and methods of personnel management. The main tasks of the personnel management system. Personnel management methods. Qualification grouping of enterprise employees.

Topic 15: Marketing management of industrial enterprises

The essence of marketing, its emergence and development. Marketing as a management function. Marketing strategy and types. Organization of marketing management.

II. Instructions and recommendations for organizing laboratory exercises.

In practical classes, special attention is paid to consolidating the theoretical knowledge presented in the lecture, expanding and deepening the knowledge gained in the subject, developing students' research and cognitive skills, and applying the knowledge acquired in the process of theoretical training in practice.

It is intended to consolidate knowledge on the subject and achieve the formation of skills using the recommended literature. The main goal of the seminar classes, conducted using interactive methods of modern pedagogical technology, is to form students' active work and independent thinking, self-assessment and respect for the opinions of others, independent work and teamwork skills.

Recommended practical topics:

1. The content and function of the discipline "Industrial Economics and Management".
2. An enterprise is a market entity conducting independent economic activity
3. Production funds and production capacity of industrial enterprises.
4. Working capital of industrial enterprises
5. Personnel of industrial enterprises and labor motivation.
6. Organization and management of production at enterprises.
7. Planning at industrial enterprises
8. Production costs, product cost and price at industrial enterprises.
9. Investment and innovation activities of industrial enterprises.
10. Income and efficiency of industrial enterprises
11. Organizational structure of industrial management
12. Management methods of industrial enterprise management.
13. Ways of making management decisions and improving them
14. Personnel management at industrial enterprises
15. Marketing management at industrial enterprises

	<p>III. Independent study and independent work.</p> <p>Independent study includes, in addition to preparing for lectures, seminars (practical, laboratory) (Note: given based on the curriculum), assignments given within the framework of additional topics that are not specified in the subject program, but expand the student's knowledge in the subject.</p> <p>Independent study for recommended topics:</p> <ol style="list-style-type: none"> 1. Industrial enterprise and its management 2. Organization and management of production at enterprises 3. Competitiveness in industry and its management 4. Personnel of industrial enterprises and labor motivation. 5. Economic methods of managing industrial enterprises 6. Profitability of industrial enterprises and ways to calculate it 7. Ways to manage production efficiency 8. Ensuring and regulating production processes 9. Managing and estimating costs of innovative activities 10. Analysis of methods of managing innovative costs 11. The importance of assessing innovation efficiency 12. Long-term assets and depreciation policy of industrial enterprises 13. Financial diagnostics of industrial enterprises 14. Methods of assessing investment efficiency in industrial enterprises 15. Product assortment, valuation, product sales and distribution management
Exam form	Written
Teaching/learning and examination requirements	<p>Complete mastery of theoretical and methodological concepts and practical knowledge of the discipline, the ability to correctly reflect the results of analysis, independently reason about the processes being studied and carry out tasks in the current, intermediate forms of control and independent work, pass written work on the final control.</p> <p>When drawing up final exam questions, deviations from the content of the discipline program are not allowed. The bank of final exam questions for each discipline is discussed at the meeting and approved by the head of the department.</p> <p>No later than 1 week before the start of the final control, tickets signed by the head of the department, enclosed in an envelope, are sealed by the Dean's office and opened 5 minutes before the start of the exam in the presence of students. Final exam duration is 80 minutes. Answers to final exam questions are recorded in copybooks with the seal of the Dean's office. After completion of the final work, the work is immediately encrypted by a representative of the Dean's office, and the copybooks are handed over to the commission for verification. From the moment of completion of the final exam, a period of 72 hours is allotted for checking and posting the results on the electronic platform.</p> <p>The teacher who taught the students in this discipline is not involved in the process of conducting the exam and checking the students' answers.</p> <p>Student(s) who are dissatisfied with the final exam results may submit a written or oral appeal within 24 hours of the publication of the final exam results. Complaints submitted after 24 hours from the publication of the final exam results will not be accepted.</p>
Scope of assessment criteria and procedure	<p>CURRENT CONTROL</p> <p>Purpose: Determining and assessing the student's level of knowledge, practical skills, and competencies on course topics.</p> <p>Instructions: The student's activity in daily classes is assessed through the student's mastery of course topics, as well as constructively</p>

interpreting and analyzing the educational material, developing module-specific skills, acquiring practical skills (in terms of quality and the specified number) and competencies, solving problem situations aimed at applying professional practical skills, working in a team, preparing presentations, etc.

Current control form: Activity in lessons Preparing educational materials Working with sources within the subject Using educational technologies Working in a team Preparing presentations Working with projects.

MIDTERM CONTROL

Purpose: Assessing the student's knowledge and practical skills and level of mastery of lecture material after completing the relevant section of the course.

Form and procedure of intermediate control: Midterm examination is held during the semester during the training sessions after the completion of the relevant module of the curriculum of the subject. Midterm examination is held once in written form within the framework of this subject. Midterm examination questions cover all topics of the subject.

INDEPENDENT LEARNING

Purpose: Independent learning is aimed at fully covering the content of this course, expanding the theoretical knowledge acquired, and establishing independent learning activities for students.

Form and procedure of independent education: independent work assignments are completed in the form of an educational project, presentation, case study, problem solving, information search, digest, colloquium, essay, article, abstract, etc. Completed assignments for independent study are placed in the electronic system and checked based on the anti-plagiarism program and evaluated by the subject teacher.

In this case, the uniqueness of the completed assignment should not be less than 60%, otherwise the assignment will not be accepted for assessment. The number of independent work assignments, depending on the nature of the subject, should not be less than 3 for one subject (module). Independent work assignments account for 60% of the points allocated for current and intermediate control.

FINAL CONTROL

Purpose: The final examination is held at the end of the semester to determine the level of mastery of the student's theoretical knowledge and practical skills in the relevant subject. The final examination is held at a specified time according to the examination schedule created by the Registrar's Office on the electronic platform.

Requirements: The student must have passed the current control, intermediate control and independent learning assignments by the deadline for the final control type in the relevant subject. A student who has not passed the current control, intermediate control and independent learning assignments, as well as who has received a score in the range of "0-29.9" for these assignments and control types, is not included in the final control type. Also, a student who has missed 25 percent or more of the classroom hours allocated to a subject without a reason is excluded from this subject and is not included in the final control type and is considered not to have mastered the relevant credits in this subject. A student who has not passed or was not included in the final control type and has received a score in the range of "0-29.9" for this type of control is considered to be an academic debtor.

Final control form: The final examination in this subject will be conducted in written form. If the final examination is conducted in written form, the requirements for assessment must also be reflected.

Criteria for assessing student knowledge	5 grade	100 points		Assessment criteria		
	5	90-100	Excellent	When a student is considered to be able to make independent conclusions and decisions, think creatively, observe independently, apply the knowledge he has gained in practice, understand, know, express, and narrate the essence of the subject, and have an idea about the subject.		
	4	70-89,9	Good	When the student is considered to be able to observe independently, apply the knowledge he has gained in practice, understand, know, express, and narrate the essence of the subject, and has an idea about the subject.		
	3	60-69,9	Satisfactory	When the student is found to be able to apply the knowledge he has gained in practice, understands, knows, can express, and narrate the essence of the subject, and has an idea about the subject.		
	2	0-59,9	Unsatisfactory	When it is determined that the student has not mastered the science program, does not understand the essence of the subject, and does not have an idea about the science.		
Course assessment criteria and procedure	Assessment type	Total points allocated	Control (task) form	Distribution of points	Qualifying score	
	Current assessment	30 points	System tasks	20 points (divided by the number of tasks)	18 points	
			Student activity (in seminars, practical, laboratory classes)	10 points		
	Midterm assessment	20 points	Supervision: Written work	10 points	12 points	
			System tasks	10 points (divided by the number of tasks)		
	Final assessment	50 points	Written assignment (5 questions)	50 points (10 points per question)	30 points	
	* Note: 60% of the points allocated for current and intermediate control are allocated to independent work assignments. Independent work assignments are evaluated as system assignments through the electronic platform.					
	Recommended Literature					
<p>Main literature:</p> <p>1. Maresova, Petra, et al. "Consequences of industry 4.0 in business and economics." <i>Economies</i> 6.3 (2018): 46.</p> <p>2. Marshall, Alfred, and Mary Paley Marshall. "The economics of industry." <i>Business Cycle Theory, Part I Volume 1</i>. Routledge, 2024. 217-226.</p> <p>3. Lakdawalla, Darius N. "Economics of the pharmaceutical industry." <i>Journal of Economic Literature</i> 56.2 (2018): 397-449.</p> <p>4. Ferguson, Glenys J. <i>Industrial economics: issues and perspectives</i>.</p>						

Bloomsbury Publishing, 2016.

Additional literature:

5. Mirziyoev Sh.M. O'zbekiston Respublikasida Elektr Energetika tarmog'ini yanada rivojlantirish va isloh qilish strategiyasi to'g'risida 2019 yil 27 martdagi PQ-4249-son

5. Mirziyoev Sh.M. Tanqidiy tahlil, qat'iy tartib-ingizom va shaxsiy javobgarlik -har bir rahbar faoliyatining kundalik qoidasi bulishi kerak. Uzbekiston Respublikasi Vazirlar Maxkamasining 2016 yil yakunlari va 2017 yil istiqbollariga bag'ishlangan majlisidagi O'zbekiston Respublikasi Prezidentining nutqi. // Halq so'zi gazetasi. 2017 yil 16 yanvar, №11. O'zbekiston Respublikasi Konstitutsiyasi - T.: O'zbekiston, 2014.-46

6. O'zbekiston Respublikasi Konstitutsiyasi. - T.: O'zbekiston, 2017. - 46 b.

7. H.A.Хашимова. Антикризисное управление предприятием. Учебное пособие -Т.-Тафаккур қаноти 2016/ -284 б;

8. Juhász, Réka, Nathan Lane, and Dani Rodrik. "The new economics of industrial policy." Annual Review of Economics 16.1 (2024): 213-242.

9. Moeuf, Alexandre, et al. "The industrial management of SMEs in the era of Industry 4.0." International journal of production research 56.3 (2018): 1118-1136.

10. Helo, Petri. "Managing agility and productivity in the electronics industry." Industrial Management & Data Systems 104.7 (2004): 567-577.

Internet resources:

1. <http://www.ziyonet>
2. <http://www.stat.uz>
3. <http://www.norma.uz>