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

TASHKENT STATE UNIVERSITY OF ECONOMICS

"APPROVED"

Dean of the Faculty of Management

D.ISMAILOV

_____ ___, 2026

ECOLOGICAL MANAGEMENT

CURRICULUM SYLLABUS OF THE DISCIPLINE

Bachelor's degree (full-time mode of study)

Field of knowledge:	400 000	Business, Management and Law
Field of education:	410 000	Business and Management
Direction of education:	60411200	Management

Tashkent – 2026

This syllabus was approved by the decision of the Council of the Faculty of Management (Minutes No. ____ dated “___” _____ 2026).

This syllabus is presented by the Department of "Innovation Management" of Tashkent State University of Economics (Minutes of the Department Meeting No. ____ dated “___” _____ 2026).

Developers:

Sadikova M.A. — Senior teacher

Reviewers:

O.D. Djuraboev – DSc, Acting Professor, Head of the Department of "Corporate Economics and Business Analytics" at TSUE and UDIU

S. Yuldashev – PhD in Economics, Associate Professor, Associate Professor at the Department of "Economics and Management" at TTIET (related higher education institution)

Head of Department
(Approved)
B.URINOV

1. Subject Information

Subject/Module Code ENVMAN2505	**Academic Year** 2026-2027	**Semester** 5	**ECTS – Credits** 5.00
Subject/Module Type Compulsory	**Language of Instruction** English	**Curriculum Sequence Number**	**Weekly Lesson Hours**

Subject Name	**Total Workload (hours)**	**Total Classroom Activities – 60 hours, of which:**			**Independent Study (hours)**	**Course Paper**
		Lecture	**Practical**	**Lab**		
ECOLOGICAL MANAGEMENT	150	30	30	0	90	-

2. Subject Content

Subject Goal – • Understand course content to organize modern management systems and select optimal organizational structures for enterprises. • Allocate authority and duties across management tiers; master environmental controlling, monitoring, safety mechanisms, and resource efficiency. • Integrate Lean + Green principles (Lean Production, Circular Economy) with economic performance. • Develop corporate environmental strategies and decarbonization roadmaps based on ESG standards and Science-Based Targets (SBT). • Gain practical skills to effectively apply ISO 14001:2007/2015 standards in designing and establishing organizational Environmental Management Systems (EMS).

Subject Tasks – Course Tasks: To review the methodological foundations of organizational environmental management, build practical skills in making executive decisions regarding environmental risk assessment, identify ecological aspects of enterprise operations, and develop skills to solve, monitor, analyze, and evaluate environmental performance results.

3. Prerequisites for the subject

1.	Management
2.	Corporate social responsibility

4. Learning Outcomes (LO)

Professional Competencies:

TN1	1. Explain and analyze modern environmental management concepts (Green Manufacturing, Circular Economy, Lean Production) using real-world case studies.
TN2	2. Design Environmental Management Systems compliant with ISO 14001:2015 and formulate corporate eco-strategies aligned with ESG and Science-Based Targets.

TN3	3. Measure resource efficiency and identify green savings opportunities using Material Flow Cost Accounting (MFCA - ISO 14051).
Skills:	
TN5	Skills are not entered.

5. Subject Content and Forms of Study:		**Hours**
Lecture (L)		**30**
M1	Introduction to Environmental Management. Green & Lean Production Fundamentals	2
M2	Introduction to Environmental Management. Green & Lean Production Fundamentals	2
M3	Stages, Subsystems, and Tools of Environmental Management	2
M4	Environmental Targets, Success Factors, and Key Indicators	2
M5	Environmental Targets, Success Factors, and Key Indicators	2
M6	Lean + Green Integration	2
M7	Environmental Accounting & Ecological Balances	2
M8	Life Cycle Assessment (LCA)	2
M9	ESG Reporting & Green Finance	2
M10	ESG Reporting & Green Finance	2
M11	Circular Economy & Zero Waste)	2
M12	Environmental Auditing & Controlling	2
M13	Climate Change & Corporate Decarbonization	2
M14	Environmental Waste Management & Cost Analysis	2
M15	Environmental Risk Management & Industrial Safety	2
Practical Session (P)		**30**
A1	Introduction to Environmental Management. Green & Lean Production Fundamentals	2
A2	Introduction to Environmental Management. Green & Lean Production Fundamentals	2
A3	Stages, Subsystems, and Tools of Environmental Management	2
A4	Environmental Targets, Success Factors, and Key Indicators	2
A5	Environmental Targets, Success Factors, and Key Indicators	2
A6	Lean + Green Integration	2

5. Subject Content and Forms of Study:		Hours
A7	Environmental Accounting & Ecological Balances	2
A8	Life Cycle Assessment (LCA)	2
A9	ESG Reporting & Green Finance	2
A10	ESG Reporting & Green Finance	2
A11	Circular Economy & Zero Waste Strategies	2
A12	Environmental Auditing & Controlling	2
A13	Climate Change & Corporate Decarbonization	2
A14	Environmental Waste Management & Cost Analysis	2
A15	Environmental Risk Management & Industrial Safety	2

6. Independent Study Assignments

№	Topic / Assignment Name	Hours
1	• Sustainable ecological development concepts and environmental management	15
2	• Integration of Green Manufacturing and Lean Production	15
3	• Circular Economy opportunities and applications in Uzbekistan	15
4	• ESG criteria and corporate sustainability reporting under GRI standards	15
5	• Environmental Information Systems and their role in ecological balance sheets	15
6	• Life Cycle Assessment (LCA) applications in product development	15
	Total:	**90**

Note: *Students should write article to given above topics in IMRAD format. An IMRAD article is structured into four core sections: Introduction, Methods, Results, and Discussion. Below is a structured blueprint, sample topic ideas tailored to the departments led by Prof. Djuraboev and Dr. Yuldashev, and a complete writing guide for students.*

7. Educational Technologies and Methods

The course incorporates interactive lectures, real-world case analysis, situational problem-solving, and academic writing, alongside blitz polls, collaborative group work, presentations, project defenses, interactive simulations, and field observations of management processes in actual enterprises.

8. **Requirements for acquiring credits by students**
Student performance is assessed on a 100-point scale throughout the semester based on active coursework, assignments, midterm tests, and final examination.

PROCEDURE OF ASSESSMENT OF STUDENTS' KNOWLEDGE

Types of Rating Assessment	Max. score	Assignments to be completed	Deadline for completing tasks
Current control, of which	**20**	**According to the academic schedule**	
Participation in class sessions	10	Oral quizzes, tests, interviews, control papers, colloquiums, case studies, scenario-based/hypothetical assignments, projects, course papers, or home assignments during seminars, lab work, and practical classes, depending on the nature of the subject.	According to the academic schedule
Independent study, of which	10	Independent work organized both in-class and out-of-class.	
1-independent study	5	Write a 1,000–1,200 word essay or analytical article on one of the independent study topics.	By the final week of classes, per the academic schedule
2-independent study	5	Green Innovation Project: infographic, slide show, or video presentation + eco-economic impact calculation.	By the final week of classes, per the academic schedule
Midterm control	**30**	**Small Group Presentation: Green strategy proposal for a real-world enterprise (ESG / Net Zero).**	**During midterm examination week via the HEMIS information system or in-person in the classroom, per the academic schedule**
Final control	**50**	**Multiple choice questions**	**The end of semestr**
Total	**100**		

Student performance is assessed on a 100-point scale throughout the semester based on active coursework, assignments, midterm tests, and final examination

9. **Criteria for assessment of students' knowledge**

a) For a grade of 5 (excellent), the student's level of knowledge must meet the following:

Upon successful completion of this course, students are expected to fully master the core concepts of management, present complex topics logically and accurately, apply theoretical frameworks to diverse managerial scenarios, provide precise and concise responses to key questions, complete all practical and independent assignments, and demonstrate a continuous, systemic approach to problem-solving.

b) For a grade of 4 (good), the student's level of knowledge must meet the following:

To meet this standard, the student must grasp the core content of the subject without making serious mistakes, understand its practical application, complete all required tasks per the curriculum, provide accurate answers while finishing all independent work, and actively strive to acquire essential practical skills.

c) For a grade of 3 (satisfactory), the student's level of knowledge must meet the following:

To achieve this standard, students must demonstrate a sound understanding of the subject's core content without significant errors, recognize its practical application, complete all required coursework within the curriculum, provide accurate answers, submit all independent assignments, and actively work toward mastering essential practical skills.

d) Under the following cases, the student's level of knowledge may be graded with an unsatisfactory grade of 2:

This performance level indicates that the student came unprepared for class sessions, lacks a fundamental grasp of the course content, failed to submit independent work, submitted plagiarized material, and was unable to answer relevant questions.

Note: Student performance is assessed on a 100-point scale: Continuous Assessment – 20 points, Midterm Assessment – 30 points, and Final Assessment – 50 points. A student's total score is calculated using the following formula: FS = CA + MA + FA (where FS is the Final Score, CA is Current Assessment, MA is Midterm Assessment, and FA is Final Assessment). A student who fails to secure at least 60 percent of the total points allocated for Continuous and Midterm Assessments combined, as well as at least 60 percent of the Final Assessment points, is considered academically deficient.

10. References

Basic References:

1.	S.R. Allayarov, G.B.Shanazarova, N.A.Musadjanova, I.M.Mamatraimov. Ekologik menejment. [Textbook] – TDIU, 2026. – 311 p.

2.	Г.Б.Шаназарова Экологическое управление. [Textbook] – "Издательско-полиграфический дом "Инновационное развитие." - Ташкент, 2024. – 338 p.
3.	R.Mohan and P.Singah “Environmental Procsesses and Managementand”. [Textbook] – (11thEdition).Publisher: Spingler Narure, 2023.
Additional References:	
1.	1. А.В. Заграновская. Системный анализ деятельности организации. Санкт-Петербург 2020.
2.	Н.А. Казакова, А.В. Александрова, Н.Н. Кондрашева, С.А. Курашова. Стратегический менеджмент. Москва 2020.
3.	С.Я. Гродзенский. Управление качеством 3-е издение. Москва 2021.
Internet resources:	
1.	www.gov.uz
2.	www.lex.uz
3.	www.unep.org
4.	www.ellenmacarthurfoundation.org
5.	www.globalreporting.org

11. Academic Requirements

Interactions between the instructor and students must be open, respectful, and transparent. Students shall submit independent assignments as prescribed via email or the learning management platform, receiving feedback through the same channels. Tasks not submitted by the designated deadline will not be accepted for re-evaluation. The instructor will verify submitted work using plagiarism detection software; assignments with an originality score below 70 percent will be rejected. Students are allowed up to two plagiarism checks per assignment—if the required threshold is not met after two attempts, the work will be permanently rejected.

12. Application of the program to other study modes

This curriculum was developed for full-time education, and working curricula for part-time, evening, and distance learning formats will be prepared based on it.