

In the Name of God



**Hamadan University of Medical Sciences and Health Services
Educational Deputy of the University
Center for Studies and Development of Medical Sciences Education**

Theory/Practical Lesson Plan Form

Dear Colleagues,

As the teaching-learning process is one that requires careful planning to achieve its objectives, the preparation of a lesson plan at the beginning of the educational process (as a map and guide for instructors and students) is essential. It serves as one of the main tools for the educational activities of instructors. Therefore, we kindly ask all instructors to pay utmost attention to completing the lesson plan.

Course and Instructor Details (Completing all items in this section is essential)

Course and Instructor Information

Item	Details
Course Title	Food and Nutrition Ecology
Instructor(s)	Dr. Emrullah Sharifi
Course Coordinator	Dr. Emrullah Sharifi
Department Head	Dr. Ali Asghar Vahidinia
Credits (Theory / Practical)	Theory: 1 credit; Practical: 0 credits

Student Major & Level	B.Sc. in Nutrition Sciences
Semester Offered	Second Semester
Class Location	Faculty of Medicine

Lesson Plan

Session	Topic	Behavioral Objectives (By the end of the session, students should be able to...)	Learning Domain	Teaching Method	Duration	Teaching Aids	Evaluation Method
1	Concept of Ecology; Types of Ecological Studies; Evolution and Natural Selection	Explain the concept of ecology; Name types of ecological studies; Explain evolution and natural selection	Cognitive	Lecture , Q&A	100 min	Computer, projector	Q&A, active participation assessment
2	Definition, Concept, Principles and Components of Ecosystems	Name and explain the concepts, principles, and components of ecosystems	Cognitive	Lecture , Q&A	100 min	Computer, projector	Q&A, active participation assessment
3	Ecosystem Processes; Stability in Ecosystems; Types of Biomes	Name and explain ecosystem processes; Explain stability in ecosystems; Name and describe features of different biomes	Cognitive	Lecture , Q&A	100 min	Computer, projector	Q&A, active participation assessment
4	Principles and Concepts of Energy; Energy Flow in Ecological	Explain principles and concepts of energy and its flow	Cognitive	Lecture , Q&A	100 min	Computer, projector	Q&A, active participation

	Systems; Laws of Thermodyna mics	in ecological systems; Explain laws of thermodyna mics and their applications in understandin g natural laws					assessme nt
5	Food Production in Ecosystems; Food Chains and Webs; Major Human Food Sources; Factors Affecting Food Production, Distribution, and Consumption	Name food production in ecosystems; Explain food chains and food webs; Describe major human food sources and their provision; Explain factors affecting food production, distribution, and consumption in humans	Cogniti ve	Lecture , Q&A	100 min	Comput er, projecto r	Q&A, active participati on assessme nt
6	Ecology and Population Density; Life Tables; Survival Curves and Influencing Factors; Age Pyramid	Explain population density in ecosystems; Explain life tables, survival curves, and age pyramid	Cogniti ve	Lecture , Q&A	100 min	Comput er, projecto r	Q&A, active participati on assessme nt
7	Ecological Challenges Facing Humans (Food Production, Agriculture, Water, Environment)	Explain ecological challenges such as producing sufficient healthy food; Discuss social,	Cogniti ve	Lecture , Q&A	100 min	Comput er, projecto r	Q&A, active participati on assessme nt

	; Social, Environmental, and Economic Factors Affecting Food Choice and Malnutrition	environmental, and economic factors affecting food choice and malnutrition					
8	Food Security in Humans and Its Assessment Methods; Geography of Malnutrition in Iran and the World and Its Relation to Diseases; Student Class Presentations	Define food security in humans and explain assessment methods; Report latest geographical status in Iran and the world and describe its effects on diseases, mortality, and disability	Cognitive	Lecture, Q&A	100 min	Computer, projector	Q&A, active participation assessment

Grading Scheme

Evaluation Type	Date	Evaluation Tool	Points
Quiz	Continuous	Oral Q&A	Negative points for insufficient performance
Project / Assignment	Final session	—	Positive points
Midterm Exam	—	—	—
Final Exam	As per academic calendar	Written MCQ test	20
Other	—	—	—
Total	—	—	20

References

1. General Ecology, Dr. Ghorbani
2. FAO website
3. Food insecurity assessment questionnaires

