



**Jordan University of Science and Technology**  
**Faculty of Agriculture**  
**Plant Production Department**

PP430 Organic Farming

First Semester 2020-2021

**Course Catalog**

2 Credit Hours. Organic agriculture and gardening methods are discussed. The philosophical background of organic farming as well as the biological, environmental, and social factors involved in organic food production are covered. Emphasis is on hands-on application of scientific principles to create sustainable food production systems.

**Text Book**

<b>Title</b>	Working with Nature. Shifting paradigms. The science and practice of Organic Horticulture
<b>Author(s)</b>	Heide Hermary
<b>Edition</b>	1st Edition
<b>Short Name</b>	Working with Nature
<b>Other Information</b>	2007. Gaia College, cultivating community

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Gardener's A-Z Guide	The Gardener's A-Z Guide to Growing Organic Food Paperback	Tanya Denckla	1st Edition	2003, Cobb. Storey American Garden publisher,
The New Organic Grower	The New Organic Grower. A master Manual of Tools and Techniques for the Home and Market Gardener	Eliot Coleman	30th Edition	2018. Chelsea Green Publishing, White River Junction, Vermont, London UK.
Rodale's Ultimate Encyclopedia of Organic Gardening	Rodale's Ultimate Encyclopedia of Organic Gardening: The Indispensable Green Resource for Every Gardener,	Deborah L. Martin, Fern Marshall Bradley, Barbara W. Ellis and Ellen Phillips.	1st Edition	2018. Newly revised and updated. Rodale books.com

**Instructor**

Name	<b>Prof. Munir Turk</b>
Office Location	C4L2
Office Hours	
Email	munatur@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: منصة الكترونية

<b>Prerequisites</b>		
Line Number	Course Name	Prerequisite Type
623210	PP321 Vegetable Crops Production	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
Weeks	Topic	References
Weeks 1, 2	INTRODUCTION ? Notions of Organic ? Organic principles ? Organic Certification ? Successful Organic Farming	From <b>Working with Nature</b>
	Successful Organic Farming	
Weeks 3, 4	TOOLS AND PRACTICES OF ORGANIC AGRICULTURE	From <b>Gardener's A-Z Guide</b>
Week 4	Green Manures and Cover Crops	<b>Green Manures and Cover Crops</b> From <b>Working with Nature</b>
Week 5	TOOLS AND PRACTICES OF ORGANIC AGRICULTURE	From <b>Gardener's A-Z Guide</b>
Weeks 6, 7	PROPERTIES OF SOIL	<b>PROPERTIES OF SOIL</b> From <b>Working with Nature</b>
Weeks 8, 9	MANAGEMENT OF GREEN MANURES	<b>. MANAGEMENT OF GREEN MANURES</b> From <b>Working with Nature</b>
	MANAGEMENT OF FARM MANURES	<b>MANAGEMENT OF FARM MANURES</b> From <b>Working with Nature</b>
Week 10	Mulches	<b>Mulches</b> From <b>Working with Nature</b>
Week 11	Compost	<b>Compost</b> From <b>Working with Nature</b>
Weeks 12, 13, 14	Biological Pest Management	<b>Biological Pest Management</b> From <b>Working with Nature</b>
Weeks 14, 15	Biopesticides	<b>Biopesticides</b> From <b>Working with Nature</b>

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Theoretical knowledge of functions and relationships in agroecosystems.	20%	
Acquaint students with basic legal standards valid for farming in organic agriculture; to elucidate principles of supervision and certification processes.	20%	
Explain differences and specificities between conventional and organic farming,	20%	
Teach students principles of sustainable soil management according to rules of organic agriculture applied,	20%	
Acquaint students with the productivity of organic agriculture and the economic aspects of organic farming enterprises.	20%	

<b>Relationship to Program Student Outcomes (Out of 100%)</b>						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7

<b>Policy</b>	
Academic Honesty and Integrity	Participants will adhere to JUST University regulations regarding personal conduct and academic integrity. It is important to the overall success of the class and the personal achievements of individuals to encourage group discussions and assimilation of information. However, all written assignments should reflect the personal creativity and individual work of the author. Information derived from other sources, printed or web-based, must be properly cited. Students in violation of these principles will receive a failing grade.

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