



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

PP414 Industrial Crops

First Semester 2023-2024

Course Catalog

3 Credit Hours. Production principles for industrial crops of regional importance with emphasis on cotton, safflower, sesame, sunflowers, and aromatic and medicinal plants.

Text Book

Title	Industrial Oil Crops
Author(s)	Thomas McKeon Douglas Hayes David Hildebrand Randall Weselake
Edition	1st Edition
Short Name	Industrial Oil Crops
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Handbook of Industrial Crops	Handbook of Industrial Crops	. Chopra, K. Peter	1st Edition	
Vol 2: Commercial Crops,	Textbook of Field Crops Production	Rajendra Prasad	2nd Edition	

Instructor

Name	Prof. Munir Turk
Office Location	C4L2
Office Hours	
Email	munatur@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Sun, Tue : 12:30 - 13:30

Room: G2123

Prerequisites

Line Number	Course Name	Prerequisite Type
623110	PP311 Field Crops Production	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Classification of Crops - Importance of Industrial Crops.	Introduction From Industrial Oil Crops
Weeks 2, 3, 4	Oil Crops (Sunflower, Safflower, Sesame. Peanut) - Classification of vegetable oils - Benefits and Advantages of Vegetable oils - Chemical tests - Importance and uses - Botanical description - Ecology & Production Practices - Maturity, Harvesting and processing	From Industrial Oil Crops
Weeks 5, 6	Stimulant Crops (Tobacco) - Origin & History - Importance and uses - Centres of Origins & Production - Botanical description - Ecology & Production Practices - Quality and Chemical Composition - Maturity, Harvesting, Grading and processing.	Stimulant Crops From Vol 2: Commercial Crops
Weeks 7, 8	Fibre Crops (Cotton, Flax) Importance and uses - Centres of Origins & Production - Botanical description - Ecology & Production Practices - Maturity, Harvesting, Grading and processing.	From Vol 2: Commercial Crops
Weeks 9, 10	Sugar Crops (Sugar beet, Sugar cane) - Centres of Origins & Production - Botanical description - Ecology & Production Practices - Quality Tests - Sugar Extraction & Industry - Maturity, Harvesting and processing - Residues of Sugar Crops.	From Handbook of Industrial Crops
Weeks 11, 12	Aromatic and Seasoning Plants (Rosemary, Lavender, Anise, Black cumin) - Origin & History - Importance and uses - Centres of Origins & Production - Botanical description - Ecology & Production Practices - Quality and Chemical Composition - Maturity, Harvesting and processing	From Handbook of Industrial Crops , From Vol 2: Commercial Crops

Weeks 13, 14	Medicinal Plants (Chamomile, Sage, Thyme) - Origin & History - Importance and uses - Centres of Origins & Production - Botanical description - Ecology & Production Practices - Quality and Chemical Composition - Maturity, Harvesting and processing	From Industrial Oil Crops, From Handbook of Industrial Crops, From Vol 2: Commercial Crops
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Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Asses the role of Industrial crops in a productive, sustainable agriculture [10PLO1, 15PLO2]	25%	
Know & identify the major industrial crops in the region [10PLO3, 5PLO4, 10PLO5]	25%	
Develop an understanding of principles of sound industrial crops management, including crop rotation, harvesting & utilization [5PLO3, 20PLO4]	25%	
Understand how management affects growth, stand persistence, & physiological changes of industrial crops. [12PLO5, 8PLO6, 5PLO7]	25%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
10	15	15	25	22	8	5

Evaluation	
Assessment Tool	Weight
Final Exam	50%
Mid. Exam	50%

Policy	
students participation policy	A student's participation in the work of a course is a precondition for receiving credit for the course. Students are expected to attend punctually all lectures and to participate in course assignments and activities as described in the course syllabus. Students registering late or who miss class are expected to make up all missed assignments in a manner determined by the instructor.

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