Department of Agronomy University college of Agriculture, UOS

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COURSE OUTLINE SPRING 2021

Course Title: ORGANIC FARMING

Course Code: AGRO-402

Credit Hours: 3(3-0)

Instructor: **Dr. Abdul Rehman**

Email: [abdul.rehman@uos.edu.pk](mailto:abdul.rehman@uos.edu.pk) **drabdulrehman18@yahoo.com**

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| DESCRIPTION & OBJECTIVES |

* To familiarize students with the concept of organic farming and its field application

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| CONTENTS |

**THEORY**

1. Concept and brief history of organic farming
2. Principles of organic agriculture
3. Soil and crop management
4. Preparation of organic matter, humus, sewage sludge, organic compost
5. Conversion of conventional to organic farming
6. Maintenance of buffer zone
7. Components of organic farming
8. Hazards of inorganic farming
9. Farm waste recycling
10. Organic mulches
11. Nature save products for control of weeds and diseases management
12. Quality of food and crop productivity under natural ecological systems.

**PRACTICAL**

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| READINGS |

1. Dahama, A.K. 2002. Organic Farming for Sustainable Agriculture. 2nd Enlarged Ed. Pub. Agrobios, Jodhpur, India.
2. Fossel, P.V. 2007. Organic Farming: Everything you need to know. MBI Publishing Co., USA.
3. Francis, C.A., C.B Flora, and L.D King. 1990. Sustainable Agriculture and Temperate Zones. Wiley, New York, USA
4. Hatfield, J.L. and D.L Karlen. 1994. Sustainable Agriculture Systems. Lewis Pub. Boca Rapon, FL, USA
5. Palaniappan and K. Annadurani. 2006. Organic Farming Theory and Practice. Scientific Publishers. Jodhpur, India.
6. Sharma, A.K. 2012. A Handbook of Organic FarmingPub. Agrobios, Jodhpur, India.
7. Geholt, D. 2010. Organic farming Components and Management Pub. Agrobios, Jodhpur, India.

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| COURSE SCHEDULE | | |
| WEEK | Topics and Readings Give Reading No from your list of readings above and its page nos. relevant to the topic(s) covered each week | DATES |
| 1. | Introduction of the course  Dictation & discussion about the course contents of theory | 23-02-2021  24-02-2021  25-02-2021 |
| 2 | Concept of organic farming  (Book 7; Chapter 1 Pg 1-9) | 02-03-2021  03-03-2021  04-03-2021 |
| 3 | Brief history of organic farming  (Book 7; Chapter 1 Pg 1-9) | 09-03-2021  10-03-2021  11-03-2021 |
| 4 | Principles of organic agriculture  (Book 6; Chapter 1 Pg 1-25)  Soil and crop management  (Book 7; Chapter 03 Pg 30-76) | 16-03-2021  17-03-2021  18-03-2021 |
| 5 | Bio-fortification  Preparation of organic matter, humus  (Book 7; Chapter 06 Pg. 102-132) | 23-03-2021  24-03-2021  25-03-2021 |
| 6 | Preparation of sewage sludge, organic compost  (Book 7; Chapter 07 Pg. 133-155) | 30-03-2021  31-03-2021  01-04-2021 |
| 7 | Conversion of conventional to organic farming  (Book 7; Chapter 12 Pg. 248-272) | 06-04-2021  07-04-2021  08-04-2021 |
| 8 | **Mid Term Examination** | 13-04-2021  14-04-2021  15-04-2021 |
| 9 | Maintenance of buffer zone  (Book 7; Chapter 3 Pg. 51-52) | 19-23, April 2021 |
| 10 | Components of organic farming  (Book 6; Chapter 2 Pg. 41-60) | 27-04-2021  28-04-2021  29-04-2021 |
| 11 | Hazards of inorganic farming  (Internet Source) | 04-05-2021  05-05-2021  06-05-2021 |
| 12 | Farm waste recycling  (Book 7 Chapter 4 Pg. 77-89) | 11-05-2021  12-05-2021  13-05-2021 |
| 13 | Organic mulches  (Book 7; Chapter 10 Pg. 216-222)  . | 18-05-2021  19-05-2021  20-05-2021 |
| 14 | Nature save products for control of weeds and diseases management  (Book 7; Chapter 14,15& 16 Pg. 286-335)  ) | 25-05-2021  26-05-2021  27-05-2021 |
| 15 | Quality of food and crop productivity under natural ecological systems  (Book 7; Chapter 17 Pg. 337-345 | 01-06-2021  02-06-2021  03-06-2021 |
| 16 | Quality of food and crop productivity under natural ecological systems  (Book 7; Chapter 17 Pg. 337-345 | 08-06-2021  09-06-2021  10-06-2021 |
| 17 | Final Exame |  |

Note: You can reserve one week for sessional or mid-term exam, and if you wish, one week for student presentations of the assigned research project.

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| RESEARCH PROJECT |

State here the prerequisites of the assigned research project, including term paper or lab assignment, etc.

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| ASSIGNMENT CRITERIA |

Write here the distribution of the marks. You can choose any or all from below for the purpose.

Sessional: 12

Mid-term: 18

Final Exam: 30

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| RUELS AND REGULATIONS |

Write here the rules and regulations that student have to abide by in your class. Some of these rules, example 80% class attendance are standards for the university.

FINAL NOTE: The instructions above mentioned in italics and red color are for guidance only. Remove them while completing this course outline template. Your final course outline document should be in black color.