UNIVERSITY OF SARGODHA

DEPARTMENT OF AGRONOMY, COLLEGE OF AGRICULTURE

COURSE OUTLINE FALL 2020-2021

Course Title: **CROP MANAGEMENT ON PROBLEM SOILS**

Course Code: AGRO-7107

Credit Hours: 3(3-0)

Instructor: Dr. Muhammad Rafi Qamar

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| COURSE SCHEDULE THEORY |  |
| **Lectures delivered** | Topics and Readings | Book with Page No. | Dates |
| 1 | Concept and perspective of crop productivity in eroded soils.  | Book # 2 Page # 2, Book # 3 Page # 2-5 | 10-11-2020 |
| 2 | Concept and perspective of crop productivity in eroded soils.  | Book # 2 Page # 2, Book # 3 Page # 2-5 | 10-11-2020 |
| 3 | Concept and perspective of crop productivity salt affected soils.  | Book # 2 Page # 2-5 | 11-11-2020 |
| 4 | Concept and perspective of crop productivity salt affected soils.  | Book # 2 Page # 2-5 | 11-11-2020 |
| 5 | Concept and perspective of crop productivity salt affected soils.  | Book # 2 Page # 2-5 | 11-11-2020 |
| 6 | Concept and perspective of crop productivity water deficit soils.  | Book # 2 Page # 439-463 | 12-11-2020 |
| 7 | Concept and perspective of crop productivity water deficit soils.  | Book # 2 Page # 439-463 | 17-11-2020 |
| 8 | Concept and perspective of crop productivity water-logged soils.  | Book # 2 Page # 6-8, Book # 3 Page # 439-463 | 17-11-2020 |
| 9 | Concept and perspective of crop productivity water-logged soils.  | Book # 2 Page # 6-8, Book # 3 Page # 439-463 | 19-11-2020 |
| 10 | Improvement and reclamation of eroded soils.  | Book # 2 Page # 217-220 | 24-11-2020 |
| 11 | Improvement and reclamation of eroded soils.  | Book # 2 Page # 217-220 | 24-11-2020 |
| 12 | Improvement and reclamation of salt affected soils.  | Book # 2 Page # 49-51 | 26-11-2020 |
| 13 | Improvement and reclamation of salt affected soils.  | Book # 2 Page # 49-51 | 01-12-2020 |
| 14 | Improvement and reclamation of salt affected soils.  | Book # 2 Page # 49-51 | 01-12-2020 |
| 15 | Improvement and reclamation of water deficit soils.  | Book # 2 Page # 140-144. Book # 1 Page # 147-166 | 03-12-2020 |
| 16 | Improvement and reclamation of water deficit soils.  | Book # 2 Page # 140-144. Book # 1 Page # 147-166 | 08-12-2020 |
| 17 | Improvement and reclamation of water deficit soils.  | Book # 2 Page # 140-144. Book # 1 Page # 147-166 | 08-12-2020 |
| 18 | Improvement and reclamation of water-logged soils.  | Book # 2 Page # 211-214 | 10-12-2020 |
| 19 | Improvement and reclamation of water-logged soils.  | Book # 2 Page # 211-214 | 15-12-2020 |
| 20 | Improvement and reclamation of water-logged soils.  | Book # 2 Page # 211-214 | 15-12-2020 |
|  | **Mid Term Examination** |  |  |
| 21 |  Site specific cultural practices | Book # 2 Page # 2-4, Book # 3 Page # 100, 110 | 17-12-2020 |
| 22 |  Site specific cultural practices | Book # 2 Page # 2-4, Book # 3 Page # 100, 110 | 31-12-2020 |
| 23 |  Site specific cultural practices | Book # 2 Page # 2-4, Book # 3 Page # 100, 110 | 05-01-2021 |
| 24 | Fertilizer and irrigation adjustments in eroded, salt affected, water deficit and logged soils.  | Book # 1 Page # 112-124, Book # 2 Page # 112-119 | 05-01-2021 |
| 25 | Fertilizer and irrigation adjustments in eroded, salt affected, water deficit and logged soils.  | Book # 1 Page # 112-124, Book # 2 Page # 112-119 | 07-01-2021 |
| 26 | Fertilizer and irrigation adjustments in eroded, salt affected, water deficit and logged soils.  | Book # 1 Page # 112-124, Book # 2 Page # 112-119 | 12-01-2021 |
| 27 | Fertilizer and irrigation adjustments in eroded, salt affected, water deficit and logged soils.  | Book # 1 Page # 112-124, Book # 2 Page # 112-119 | 12-01-2021 |
| 28 | Specific cropping patterns and crop management practices for economic in eroded, salt affected, water deficit and logged soils.  | Book # 1, Page # 112-124, Book # 2 Page # 112-119 | 14-01-2021 |
| 29 | Specific cropping patterns and crop management practices for economic in eroded, salt affected, water deficit and logged soils.  | Book # 1, Page # 112-124, Book # 2 Page # 112-119 | 19-01-2021 |
| 30 | Specific cropping patterns and crop management practices for economic in eroded, salt affected, water deficit and logged soils.  | Book # 1, Page # 112-124, Book # 2 Page # 112-119 | 19-01-2021 |
| 31 | Crop production in eroded soils  | Book # 2 Page # 70-77, Book # 3 Page # 211-215 | 21-01-2021 |
| 32 | Crop production in eroded soils  | Book # 2 Page # 70-77, Book # 3 Page # 211-215 | 26-01-2021 |
| 33 | Crop production in eroded soils  | Book # 2 Page # 70-77, Book # 3 Page # 211-215 | 26-01-2021 |
| 34 | Crop production in salt affected soils.  | Book # 2 Page # 206-211, Book # 3 Page # 142-150 | 28-01-2021 |
| 35 | Crop production in salt affected soils.  | Book # 2 Page # 206-211, Book # 3 Page # 142-150 | 02-02-2021 |
| 36 | Crop production in salt affected soils.  | Book # 2 Page # 206-211, Book # 3 Page # 142-150 | 02-02-2021 |
| 37 | Crop production in salt affected soils.  | Book # 2 Page # 206-211, Book # 3 Page # 142-150 | 04-02-2021 |
| 38 | Crop production in water deficit and logged soils. | Book # 2 Page # 217-220 | 09-02-2021 |
| 39 | Crop production in water deficit and logged soils. | Book # 2 Page # 217-220 | 09-02-2021 |
| 40 | Crop production in water deficit and logged soils. | Book # 2 Page # 217-220 | 11-02-2021 |
| 41 | Crop production in water deficit and logged soils. | Book # 2 Page # 217-220 | 16-02-2021 |
| 42 | Demonstration of degraded soils.  | Book # 2 Page # 133-138, Book # 3 Page # 432-461 | 16-02-2021 |
| 43 | Demonstration of degraded soils.  | Book # 2 Page # 133-138, Book # 3 Page # 432-461 | 18-02-2021 |
| 44 | Demonstration of degraded soils.  | Book # 2 Page # 133-138, Book # 3 Page # 432-461 | 23-02-2021 |
| 45 | Demonstration in water logged and deficit soils.  | Book # 2 Page # 397-399 | 23-02-2021 |
| 46 | Demonstration in water logged and deficit soils.  | Book # 2 Page # 397-399 | 25-02-2021 |
| 47 | Demonstration in water logged and deficit soils.  | Book # 2 Page # 397-399 | 02-03-2021 |
| 48 | Demonstration in water logged and deficit soils.  | Book # 2 Page # 397-399 | 02-03-2021 |
|  | **Final Term Examination** |  |  |