UNIVERSITY OF SARGODHA

DEPARTMENT OF AGRONOMY, COLLEGE OF AGRICULTURE

COURSE OUTLINE FALL 2020-2021

Course Title: BASIC AGRICULTURE

Course Code: AGRO-5901

Credit Hours: 3(2-1)

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| **COURSE SCHEDULE THEORY** | | |
| **Lectures delivered** | **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 and general discussion about of course contents. Agriculture History.  (Book # 1 Page # 2, Book # 9 Page # 2-5.) | 17-11-2020 |
| 2 | Agriculture, importance, its branches and allied sciences.  (Book # 1 Page # 2-5) | 19-11-2020 |
| 3 | Agriculture, importance, its branches and allied sciences.  (Book # 1 Page # 2-5) | 24-11-2020 |
| 4 | Agriculture, importance, its branches and allied sciences.  (Book # 1 Page # 2-5) | 26-11-2020 |
| 5 | Salient features of Pakistan Agriculture.  (Book # 11 Page # 439-463.) | 01-12-2020 |
| 6 | Land resources and their utilization in Pakistan.  (Book # 1 Page # 6-8, Book # 11 Page # 439-463.) | 03-12-2020 |
| 7 | Agro-ecological zone and climate of Pakistan.  (Book # 5 Page # 217-220.) | 08-12-2020 |
| 8 | Water resources of Pakistan, surface and ground water.  (Book # 5 Page # 49-51) | 10-12-2020 |
| 9 | Water resources of Pakistan, surface and ground water.  (Book # 5 Page # 49-51) | 15-12-2020 |
| 10 | Tillage, types and its objectives.  (Book # 9 Page # 140-144. Book # 5 Page # 147-166.) | 17-12-2020 |
| 11 | Tillage, types and its objectives.  (Book # 9 Page # 140-144. Book # 5 Page # 147-166.) | 22-12-2020 |
| 12 | Farming systems and its types.  (Book # 5 Page # 211-214.) | 24-12-2020 |
| 13 | Farming systems and its types.  (Book # 5 Page # 211-214.) | 29-12-2020 |
| 14 | Seed- definition, types and characteristics of quality seed.  (Book # 10 Page # 2-4, Book # 5 Page # 100, 110.) | 31-12-2020 |
| 15 | Seed- definition, types and characteristics of quality seed.  (Book # 10 Page # 2-4, Book # 5 Page # 100, 110.) | 05-01-2021 |
| 16 | Crop nutrition, manures and fertilizers; Classification of fertilizer, and their composition.  (Book # 3 Page # 112-124, Book # 10 Page # 112-119.) | 07-01-2021 |
| 17 | Crop nutrition, manures and fertilizers; Classification of fertilizer, and their composition.  (Book # 3 Page # 112-124, Book # 10 Page # 112-119.) | 12-01-2021 |
| 18 | Sources of fertilizer, method of Application.  (Book # 3, Page # 112-124, Book # 10 Page # 112-119) | 14-01-2021 |
| 19 | Sources of fertilizer, method of Application.  (Book # 3, Page # 112-124, Book # 10 Page # 112-119) | 19-01-2021 |
| 20 | Sources of fertilizer, method of Application.  (Book # 3, Page # 112-124, Book # 10 Page # 112-119) | 21-01-2021 |
|  | **MID TERM EXAMINATION** |  |
| 21 | Irrigation methods, types and management.  (Book # 5 Page # 70-77, Book # 10 Page # 211-215.) | 26-01-2021 |
| 22 | Irrigation methods, types and management.  (Book # 5 Page # 70-77, Book # 10 Page # 211-215.) | 28-01-2021 |
| 23 | Irrigation methods, types and management.  (Book # 5 Page # 70-77, Book # 10 Page # 211-215.) | 02-02-2021 |
| 24 | Crop Rotation-Principle and types.  (Book # 5 Page # 206-211, Book # 10 Page # 142-150.) | 04-02-2021 |
| 25 | Crop Rotation-Principle and types.  (Book # 5 Page # 206-211, Book # 10 Page # 142-150.) | 09-02-2021 |
| 26 | Crop protection measures- Direct, indirect control measure Material will be provided. | 11-02-2021 |
| 27 | Crop protection measures- Direct, indirect control measure Material will be provided. | 16-02-2021 |
| 28 | Crop protection measures- Direct, indirect control measure Material will be provided. | 18-02-2021 |
| 29 | Harvesting and storage and processing of farm produce.  (Book # 5 Page # 133-138, Book # 2 Page # 432-461.) | 23-02-2021 |
| 30 | Harvesting and storage and processing of farm produce.  (Book # 5 Page # 133-138, Book # 2 Page # 432-461.) | 25-02-2021 |
| 31 | Agro-based industry, Environmental pollution and health hazard.  (Book # 11 Page # 397-399) | 02-03-2021 |
| 32 | Agro-based industry, Environmental pollution and health hazard.  (Book # 11 Page # 397-399) | 04-03-2021 |
| 33 | Agro-based industry, Environmental pollution and health hazard.  (Book # 11 Page # 397-399) | 09-03-2021 |
|  | **FINAL TERM EXAMINATION** |  |

**Practical**

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| Lectures delivered | Topics Covered | Date |
| 1 | Measurement of land   1. Conventional system. 2. Metric system. | 20-11-2020  27-11-2020 |
| 2 | Measurement of land   1. Conventional system. 2. Metric system. | 04-12-2020  11-12-2020 |
| 3 | Measurement of land   1. Conventional system. 2. Metric system. | 18-12-2020  25-12-2021 |
| 4 | Measurement of land   1. Conventional system. 2. Metric system. | 01-01-2021  08-01-2021 |
| 5 | Identification and use of hand tools and implements | 15-01-2021  22-01-2021 |
| 6 | Recording weather data, types of thermometers and their uses | 29-01-2021  05-02-2021 |
| 7 | Recording weather data, types of thermometers and their uses | 29-01-2021  05-02-2021 |
| 8 | Recording weather data, types of thermometers and their uses | 29-01-2021  05-02-2021 |
| 9 | Techniques and instruments for measuring rainfall, light, atmospheric humidity, etc. | 12-02-2021 |
| 10 | Techniques and instruments for measuring rainfall, light, atmospheric humidity, etc. | 19-02-2021 |
| 11 | Techniques and instruments for measuring rainfall, light, atmospheric humidity, etc. | 26-02-2021 |
| 12 | Identification of various soil types;   1. Determination of soil moisture contents, 2. Saturation percentage, 3. Field capacity 4. Wilting point. | 05-03-2021 |
| 13 | Identification of various soil types;   1. Determination of soil moisture contents, 2. Saturation percentage, 3. Field capacity 4. Wilting point. | 05-03-2021 |
| 14 | Identification of various soil types;   1. Determination of soil moisture contents, 2. Saturation percentage, 3. Field capacity 4. Wilting point. | 05-03-2021 |
| 15 | Field visits | 12-03-2021 |
| **FINAL TERM EXAMINATION** | | |

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