

Course Description Form Land Farming

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| Course Name | |
| Land Farming | |
| Course Code | |
| LANF406 | |
| Semester/ Year | |
| First / 2025 | |
| Date of preparation of this description | |
| 15 January 2025 | |
| Available attendance forms | |
| Full-time (theoretical lecture and practical lecture) weekly | |
| Credit Hours (total) / Number of Units (Total) | |
| 2 theoretical hours and 3 working hours per week for 14 weeks, the number of units is 3.5 units | |
| Name of the course administrator (if more than one name is mentioned) | |
| Dr. Hassan Ali Majeed Husham Abdulwahab Abdulkarim | |
| Course Objectives | |
| Objectives of the course : | <ol style="list-style-type: none"> 1- Studying the most important grain crops in the world 2- Includes knowledge of the spread of each crop in different regions of the world 3- Knowing the economic importance of grain crops and methods of cultivation 4- Identify the methods of cultivating each crop and the factors affecting the productivity of each crop 5- Studying the environmental conditions suitable for the cultivation of each crop |
| Teaching and Learning Strategies | |

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| Strategy | • In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports |
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Theoretical

Course Structure

| Week | Credits | Intended Learning Outcomes | Module / Course Name or | Teaching*method | Evaluation Method |
|------|---------|---|-------------------------|---|--|
| 1 | 2 | Crop production | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 2 | 2 | Carbon representation in the production of crops | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 3 | 2 | Increase productivity | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 4 | 2 | Nitrogen fixation and productivity increase | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 5 | 2 | Relationship of energy disbursed to crop productivity | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |

| First Quarter Examination | | | | | |
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| 6 | 2 | Loss of Post harvest | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 7 | 2 | Scientific visit to agricultural fields | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 8 | 2 | Branching in crop plants and their relationship to productivity | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 9 | 2 | Disadvantages of sandy and clay lands | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 10 | 2 | Disadvantages of gypsum and calcareous land | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| 11 | 2 | Remedying land defects | Land Farming | Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming | Examinations Daily and Monthly Final and Reports day |
| Second Quarter Examination | | | | | |

| Practical Part | | | | | |
|----------------|---------|---|--------------|--|---|
| Week | Credits | Intended Learning Outcomes | Land Farming | Learning Method | Evaluation Method |
| 1 | 3 | Conducting a survey of aquatic environment plants and diagnosing them | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 2 | 3 | Comparison of germination, growth and development of plant stages in | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 3 | 3 | Comparison of the impact of gypsum and calcareous soil with the usual (other | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 4 | 3 | Comparison of growth criteria in normal and gravel soils | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 5 | 3 | Comparing the growth criteria of several crops grown in good soil to | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 6 | | Month 1 | | | |
| 7 | 3 | Growing a crop and irrigating it with salt water measuring the pH of the soil after | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 8 | 3 | A visit to the field and recording some data on a specific area in boards with | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 9 | 3 | Visiting a local area and collecting and diagnosing its plants | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 10 | 3 | Visiting the gypsum area and collecting and diagnosing its plants | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and |
| 11 | 3 | Comparison of plant growth in sandy and intermediate soils | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and Reports |

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| 12 | | Compare the amount of irrigation water required for sandy and medium soil according to the | Land Farming | Case history Brainstorming Debating and discussing | Examinations Daily and Monthly Final and Reports |
| | | | Second Exam | | |

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| Course Evaluation | |
| Daily and monthly exams, reports and student effectiveness during the lecture . | |
| Learning and Teaching Resources; | |
| Required textbooks (methodology if any) | Production and improvement of field crops by Dr Abdul Hamid Al-Younis. |
| Key References (Sources) | Recent articles from the Internet, specialised scientific journals, the Journal of Agricultural Sciences - Iraq and the Virtual Library. |
| Recommended supporting books and references (scientific journals, | Iraqi academic scientific journals |
| E-References, Websites | crop Science Society Of America Library Genesis |