#### Course Title: Animal Production 2 (Dairy & Meat)

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| **University** | **Benha** |
| **Faculty** | **Faculty of Agriculture** |
| **COURSE SPECIFICATIONS:** | |
| Program of which the course is given | Agricultural Biotechnology |
| Major or Minor element of Program | Dairy & Meat production |
| Departments offering the Program | Animal production |
| Department offering the course | Animal production |
| Academic year / Level | Second level/ first semester |
| Date of specification approval |  |

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| **A- BASIC INFORMATION** | |
| Title | Animal production 2 (Dairy & Meat) |
| Code | AP 0302 |
| Credit Hours | 4 Hours |
| Lecture | 2 Hours / week |
| Practical | 2 Hours / week |
| Total: | 4 Hours |

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| **B- PROFESSIONAL INFORMATION** |
| **1 – OVERALL AIMS OF COURSE** |
| * to identification of the importance of meat and milk and the obstacles involved. * to define how to establish farm animal flocks for dairy and meat production. * to define functions of different reproduction stages in farm animals are mentioned. * to learn methods of natural and artificial insemination. |

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| **2 – Intended Learning Outcomes of Course (ILOs)** |
| **A. Knowledge and Understanding:** |
| ***By the end of the course, students should:***   * Understanding the importance of meat and milk and the obstacles * Understanding the role of establish farm animal flocks for dairy and meat production. |

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| B. Intellectual Skills: |
| ***Successful completion of this course will allow students to:***   * Solving the problems in functions of reproduction in farm animals. * Understanding the animal farm component. |

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| C. Professional and Practical Skills: |
| * Learn how to produce safety dairy & meat in farm animals. * Using methods of natural and artificial insemination. |

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| D. General and Transferable Skills: |
| * Using new reproduction applications in farm animals. * Using computer applications. |

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| 3. CONTENTS | | | |
| **Topic** | **No. of hours** | **Lectures** | **Practical** |
| Introduction to animal production in Egypt | 4 | 1 | 1 |
| Reproduction in dairy cattle. | 4 | 1 | 1 |
| Reproduction stages in cows and hormones regulation. | 4 | 1 | 1 |
| Milk lactation in cows, udder structure, factors affecting milk yield | 4 | 1 | 1 |
| Causes of low reproductively and sterility in dairy cattle. | 4 | 1 | 1 |
| Establishing milk farm | 4 | 1 | 1 |
| Importance of meat for human, world meat production and consumption | 4 | 1 | 1 |
| Beef cattle production systems, commercial classification of meat production. | 4 | 1 | 1 |
| Beef carcass grades and cuts, dressing and growth parameters. | 4 | 1 | 1 |
| Sheep production and classification. | 4 | 1 | 1 |
| Sheep wool | 4 | 1 | 1 |
| Breed methods selection and evaluations animal farm reproduction traits. | 4 | 1 | 1 |

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| 4. TEACHING AND LEARNING METHODS |
| 1. The main subject areas are covered in the lectures (see syllabus Plan). 2. Several student seminar sessions give the opportunity for students to bring questions or discuss any aspects of the course with the tutor. 3. Students are given a topic to research in small groups which they report as an oral presentation. Collective feedback on the strengths and weaknesses of the presentations are provided. |

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| 5. STUDENT ASSESSMENT METHODS |
| ***Students will be evaluated by attendance, fulfillment and effort in exercises and presentations, and examination grades:***  1) Laboratory work: to assess the ability of students to understand and perform small laboratory experiments. |

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| 6. ASSESSMENT SCHEDULE | | |
| No | Assessment | **Week No.** |
| 1 | Periodical exam | 4, 8, 12 |
| 2 | Practical exam | 13 |
| 3 | Oral exam | 13 |
| 4 | Final exam | 14 |

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| 7. WEIGHTING OF ASSESSMENT | | |
| No | Assessment | **%** |
| 1 | Periodical exam | 15% |
| 2 | Practical exam | 15% |
| 3 | Oral exam | 10 % |
| 4 | Final exam | 60 % |
| TOTAL | | 100 % |

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| 8. LIST OF REFERENCES |
| Field, T.G. and Taylor, R.E. 2010. Scientific farm animals: Introduction to animal science. 10th Ed., Englewood Cliffs, NJ, USA.  Patricia Botes, Albert Mazibuko 2007. Animal Production; Level 2. Pearson Education South Africa (July 1, 2007) |

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| 9. FACILITIES REQUIRED FOR TEACHING AND LEARNING |
| 1. Teaching aids/ materials: e.g. boards – overhead projector – data-show projector – stationary.. etc. 2. Teaching room/hall. 3. Computers. 4. Facilities for site visits etc., which are necessary for teaching the course. |

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| **Course Coordinators:** | **Prof. Dr. Mahmoud reiad El-Mahdy**  **Dr. Tamer Mosaad Mohamed Hassan** |
| **Date: 28 / 9 / 2015** | |