Course Title: **Animal Production 4 (Fish)**

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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 |  |
| Departments offering the Program | Animal production |
| Department offering the course | Animal production |
| Academic year / Level | 2015-2016 |
| Date of specification approval |  |

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| **A- BASIC INFORMATION**  |
| Title  | Animal Production 4 (Fish) |
| Code | AP0304 |
| Credit Hours  | 4 Hours / week |
| Lecture | 2 Hours / week |
| Practical | 2 Hours / week  |
| Total: | 56 Hours / semester |

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| **B- PROFESSIONAL INFORMATION** |
| **1 – OVERALL AIMS OF COURSE** |
| 1. The course gives descriptions on the operations associated with fish production means of the aquaculture technology as well as fisheries.
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| **2 – Intended Learning Outcomes of Course (ILOs)** |
| **A. Knowledge and Understanding:** |
| ***By the end of the course, students should:***1. Understanding the different between methods of fish culture and kinds of fish farms.
2. To know the marine fish resources.
3. Understanding the bases and the principals of inland lake fisheries.

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| B. Intellectual Skills: |
| ***Successful completion of this course will allow students to:***1. Design of cages and pens fish culture in rice field.
2. Solving the problems for the fish diseases.
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| C. Professional and Practical Skills: |
| 1. Operate the fish marketing.
2. Prepare and sectors in many fish farms.
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| D. General and Transferable Skills: |
| 1. Dealing with the problems related to fish production by using computer.
2. Managing the fish farms with a good dealing with the others.
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| 3. CONTENTS |
| **Topic** | **No. of hours** | **Lectures** | **Practical** |
| Development of fish resources in Egypt | 4 | 1 | 1 |
| Marine fish resources | 8 | 2 | 2 |
| Inland lake fisheries | 4 | 1 | 1 |
| Aquaculture constraints in Egypt | 8 | 2 | 2 |
| Relationship between water quality and fish activities | 4 | 1 | 1 |
| Fish migration and reproduction | 4 | 1 | 1 |
| Methods of fish culture and kinds of fish farms | 8 | 2 | 2 |
| Cages and pens, fish culture in rice fields | 4 | 1 | 1 |
| Integrated fish culture and farms. | 4 | 1 | 1 |
| Fish marketing | 4 | 1 | 1 |
| Fish diseases | 4 | 1 | 1 |
| **Total** | 56 | 14 | 14 |

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| 4. TEACHING AND LEARNING METHODS |
| 1. The main subject areas are covered in the lectures (see syllabus Plan).
2. Seminar sessions and oral presentations prepared by students for discussion the studied aspects of the course give the opportunity learn and exchange the point views.
3. Visiting animal farms of our faculty and others of governmental and companies' are providing students with the practices experiences.
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| 5. STUDENT ASSESSMENT METHODS |
| ***Students will be evaluate by attendance, fulfillment and effort in exercises and presentations, and passing of the following exams :***1. Periodical exam
2. Practical exam
3. Oral exam
4. Final exam
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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 |
| 1. BrownEvan E. 2013. World Farming: Cultivation and Economics. Avi Publishing Co Inc.,;2nd Edition pp 540 pages.

2- Lawson, T. 2013. Fundamentals of Aquacultural Engineering, Sprigers, NY, USA |

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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. Poultry farm (housing, birds and egg incubation lab.).
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| **Course Coordinators:**  | **Prof. Dr. Magdy Abdel Hameed Sultan**  |
| **Date: / / 2015** |