#### Course Title: Economics of Agricultural Biotechnologies

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| **University** | **Benha** |
| **Faculty** | **Faculty of Agriculture** |
| **COURSE SPECIFICATIONS:** | |
| Program of which the course is given | Agricultural Biotechnology Program |
| Major or Minor element of program | Agricultural Biotechnology |
| Departments offering the program | General |
| Department offering the course | Agricultural Economics |
| Academic year (level) | Level 3 /Semester 2 |
| Date of specification approval |  |

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| **A- BASIC INFORMATION** | |
| Title | Economics of Agricultural Biotechnologies |
| Code | EE0603 |
| Credit Hours |  |
| Lecture | 2 Hours / week |
| Practical | 2 Hours / week |
| Total: | 4 Hours / week |

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| **B- PROFESSIONAL INFORMATION** |
| 1. OVERALL AIMS OF COURSE |
| * To provide students with the major types of agricultural products and biotechnological application of their supply and analysis of controversial issues relating biotechnological safety. * To provide students with the Applications of optimum precaution techniques and profit maximization are included. |

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| 2. INTENDED LEARNING OUTCOMES OF COURSE (ILOs) |
| **A. Knowledge and Understanding:** |
| ***By the end of the course, students should:***   * Identify the major items of agricultural biotechnology products. * Recognize the biotechnological applications in Egypt. * Determine the items of production analysis |

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| B. Intellectual Skills: |
| ***Successful completion of this course will allow students to:***   * Compare the optimal use of resources in the field of biotechnology. * Assess the economic returns of biotechnology. * Identify the Product differentiation. |
| C. Professional and Practical Skills: |
| * Calculate the economic return of biotechnology. * Deal with the quality standards in the field of biotechnology. * Deal with the Advertising. |
| D. General and Transferable Skills: |
| * Take the decision in the light of available information. * Deal with modern information systems. * Work in groups. |

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| 3. CONTENTS | | | |
| **Topic** | **No. of hours** | **Lectures** | **Practical** |
| Introduction | 4 | 2 | 2 |
| Definition of major items of agricultural biotechnology products. | 4 | 2 | 2 |
| Biotechnological applications in Egypt. | 4 | 2 | 2 |
| **Periodical exam** | 4 | 2 | 2 |
| Food supply in Egypt and consumer acceptance. | 4 | 2 | 2 |
| Production analysis of food biotechnology products. | 4 | 2 | 2 |
| Consumer analysis of supply and for agriculture biotechnology. | 4 | 2 | 2 |
| **Periodical exam** | 4 | 2 | 2 |
| Product differentiation | 4 | 2 | 2 |
| Market concentration and merger. | 4 | 2 | 2 |
| Price-fixing and patents. | 4 | 2 | 2 |
| **Periodical exam** | 4 | 2 | 2 |
| Advertising | 4 | 2 | 2 |
| **Practical exam** | 4 | 2 | 2 |
| **Total** | 56 | 28 | 28 |

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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 | AssessmentAssessment | **Week** |
| 1 | Periodical exam | 4, 8, 12 |
| 2 | Practical exam | 14 |
| 3 | Oral exam | 15 |
| 4 | Final exam | 16 |

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| 7. WEIGHING OF ASSESSMENT | | |
| No | AssessmentAssessment | **%** |
| 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. **Klotz, C.A., Fuglie, K. and Caswell, M.F. 2004.** Agricultural biotechnology: an economic perspective. Nova Science Publ., Hauppauge, NY, USA. 2. **Santaniello, V. and Evenson, R. E. 2004**. The regulation of agricultural biotechnology. CABI, UK. |

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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.**  **Prof. Dr.** |
| **Date: / / 2015** | |