#### Course Title: Agronomy 2 Seeds and Weeds

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| **University** | **Benha** |
| **Faculty** | **Faculty of Agriculture** |
| **COURSE SPECIFICATIONS:** |
| Program of which the course is given | Biotechnology  |
| Major or Minor element of program | -- |
| Departments offering the program | General  |
| Department offering the course | Agronomy |
| Academic year (level) | 1st  level  |
| Date of specification approval | --/--/2015 |

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| **A- BASIC INFORMATION**  |
| Title  | Agronomy 2 |
| Code | **AG 0102** |
| Credit Hours  | **3 CREDIT HOURS** |
| Lecture | 2 Hours / week |
| Practical | 2 Hours / week  |
| Total: |  Hours |

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| **B- PROFESSIONAL INFORMATION** |
| 1. OVERALL AIMS OF COURSE |
| The aim of the course is to know the studies on the formation of seeds, seed sampling, purity, germination, dormancy, viability, seed index, vigor test, and seed laws. Importance, classification, dispersals, losses, ecological factors affecting weed growth, methods of weed control (physical biological & chemical) to determine the most efficient in weed control |

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| 2. INTENDED LEARNING OUTCOMES OF COURSE (ILOs) |
| **A. Knowledge and Understanding:** |
| ***By the end of the course, students should:**** Understand the importance of seeds as asource of successful crop.
* Recognize methods of storing and handing seeds
* Understand the methods of seed teasting
* Identify weeds
* Point out type of weed management
* Know relationship between weeds and growing crops
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| B. Intellectual Skills: |
| ***Successful completion of this course will allow students to:**** Develop ways to produce certain types of seeds under Egypt condetion
* Conduct a TZ test and make correct evaluation of test results.
* List standardization problems associated with seed vigor tests
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| C. Professional and Practical Skills: |
| * To be able to develop and manage programs related seed production
* To be able to preparing and application of herbicides
* To be able to choose the suitable methods for controlling weeds
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| D. General and Transferable Skills: |
| * To be able to working with Others
* To be able to problem Solving
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| 3. CONTENTS |
| **Topic** | **No. of hours** | **Lectures** | **Practical** |
| 1. Seed multiplication.
 | 4 | 2 | 2 |
| 1. Seed testing, seed technology, seed viability.
 | 6 | 3 | 3 |
| 1. Seed index and seed laws
 | 4 | 2 | 2 |
| 1. Weed biology, weed classification and distribution.
 | 6 | 3 | 3 |
| 1. Weed control strategies.
 | 8 | 4 | 4 |

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| 4. TEACHING AND LEARNING METHODS |
| Lectures, Practical classes, fieldwork and group work. |

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| 5. STUDENT ASSESSMENT METHODS |
| ***Students will be evaluated by attendance, fulfillment and effort in exercises and presentations, and examination grades:**** Periodical exam
* Practical exam
* Oral exam
* Final exam
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| 6. ASSESSMENT SCHEDULE |
| No | AssessmentAssessment | **Week** |
| 1 | Periodical exam  | 6th and 12th  |
| 2 | Practical exam | 15th  |
| 3 | Oral exam | 15th  |
| 4 | Final exam | 16th  |

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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. **McDonaled M.B. 2000.** Seed priming. *In* Black, M. and Bewley J.D. Eds ‘Seed technology and its biological basis’ Plenum Press, New York. USA.

<http://books.google.de/books?id=nWilRHvRiFIC&pg=PA72&dq=Seed+priming&hl=en&sa=X&ei=CDz3UqjLNMXWswb7mYGACA&ved=0CC4Q6AEwAA#v=onepage&q=Seed%20priming&f=false> 1. **Saraswat, V.N. 2003. Weed management**. Directorate Inform. Publ. Agric. Ind. Council, Agric, Res. India.

<http://books.google.de/books?id=VuPOBdUJOeQC&pg=PA38&dq=Directorate+Inform&hl=en&sa=X&ei=Gzz3UtLTCoqUtAbT_YCgCw&ved=0CC4Q6AEwAA#v=onepage&q=Directorate%20Inform&f=false> |

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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. Nasser Khamis El-Gizawy** |
| **Date: / / 2015** |