#### Course Title: Computer Science

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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 | Minor element |
| Departments offering the program | General |
| Department offering the course | Common & Joint |
| Academic year (level) | First year |
| Date of specification approval | 8\_ 11\_ 2015 |

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| **A- BASIC INFORMATION** | |
| Title | Computer science |
| Code |  |
| Credit Hours | 3 hours |
| Lecture | 2 Hours / week |
| Practical | 2 Hours / week |
| Total: | Hours |

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| **B- PROFESSIONAL INFORMATION** |
| 1. OVERALL AIMS OF COURSE |
| * To provide undergraduate students with knowledge and skills related to computer and internet use in agriculture. |

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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 function of each part of computer set. * Define different terms related to computer science such as main memory, loading, intranet, extranet, LAN, SAN, MAN, and others. * Detect the best ways to us computer programs in a safe environment. |

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| B. Intellectual Skills: |
| ***Successful completion of this course will allow students to:***   * Select the most appropriate software in the field of biotechnology and food safety * Solve the problems arise from operating different programs. * Differentiate between original software and spyware. |
| C. Professional and Practical Skills: |
| * Use application programs such as Microsoft word, excel, power point and others. * Install different software with advanced skills. * Use internet effectively and positively to achieve the required tasks. |
| D. General and Transferable Skills: |
| * Prepare different reports using advance skills of word processing programs. * Communicate with others in a proper way. |

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| 3. CONTENTS | | | |
| **Topic** | **No. of hours** | **Lectures** | **Practical** |
| The importance of computer in agriculture. | 2 | 1 | 1 |
| Main parts of a computer | 2 | 1 | 1 |
| Operating systems | 2 | 1 | 1 |
| Information technology. | 6 | 3 | 3 |
| Internet , intranet and extranet. | 4 | 2 | 2 |
| Application of word processing programs. | 8 | 4 | 4 |
| Preparing presentations using power point software. | 4 | 2 | 2 |
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| Total | 28 | 14 | 14 |

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| 4. TEACHING AND LEARNING METHODS |
| 1. Lectures. 2. Lab 3. Assignments. 4. Reports. |

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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. 2. Oral exam to assess understanding and intellectual skills. 3. Practical exam to assess practical skills. 4. Final exam to assess knowledge and intellectual skills. |

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| 6. ASSESSMENT SCHEDULE | | |
| No | AssessmentAssessment | **Week** |
| 1 | Periodical exam |  |
| 2 | Practical exam |  |
| 3 | Oral exam |  |
| 4 | Final exam |  |

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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 |
| - - An Introduction to Computer Science (Chapman & Hall/CRC Textbooks in  Computing) 1st Edition. by John S. Conery (Author)  - http://assets.cengage.com/pdf/5096\_DC\_Chapter1.pdf |

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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. |

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| **Course Coordinators:** | **Prof. Dr. Sedhom Asaad Sedhom** |
| **Date: 8/ 11/ 2015** | |