

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Baghdad
College: Science for Women
Department: Computer Science
Stage: Third
Lecturer name: Dr. Abbood K
Jassim
Qualification: lecture

Syllabus Form

| | | | | | |
|--------------------|---|------------|---------|---------|------------|
| Instructor Name | Abbood Kirebut Jassim | | | | |
| E-mail | ramz5151@yao.com | | | | |
| Course Title | Advanced Algorithm | | | | |
| Course Coordinator | | | | | |
| Course Objectives | Give more description of visual basic language and implementation advanced algorithms by used its. | | | | |
| Course Description | It consist of two part, the first about learn the structure of visual basic, and second about implementation advanced algorithms by using visual basic. | | | | |
| Textbook | 1-"Mastering of Visual Basic 6", Evangelos Petroustos, 1996. | | | | |
| References | 1-Using visual basic / internet. 2-"Introduction to Algorithms ", by Thomas H. Cormen | | | | |
| Course Assessments | Term Tests | Laboratory | Quizzes | Project | Final Exam |
| | As(25%) | As(15%) | As(0%) | - | As(60%) |
| General Notes | | | | | |

| W/eek | Date | Topes Covered | Lab. Experiment Assignments | Notes |
|-------|------|---|--|-------|
| 1 | | Visual basic interface and Tools bars, Command, label object | Learning visual basic environment Program on command, label object | |
| 2 | | Option and check button, Frame, list box and combo box | Program on Option, check button, Frame, list box and combo box | |
| 3 | | Objects properties, methods and events Variables types, constants and operators | Training on objects properties, methods and events | |
| 4 | | Converting variables function and arrays If statement, looping | Training on variables types, constants and operators converting variables function and arrays and Program on if statement, looping | |
| 5 | | Select case statement and string functions | Program on if statement, looping, select case statement and training on string functions | |
| 6 | | Procedure and function definition | Training on procedure and function definition and Program on procedure and | |

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|----|--|--|---|--|
| | | | function definition | |
| 7 | | Multiform Menus | Training on multiform and Program on menus | |
| 8 | | Files | Program on files | |
| 9 | | Definitions of the algorithm Format of the algorithm Feature of the algorithm | Program | |
| 10 | | Complexity of Sorting Algorithm Selection Sort Insertion Sort Bubble Sort | Sorting Program | |
| 11 | | Radix sort | Radix program | |
| 12 | | Shell Sort Merge Sort | Shell Program | |
| 13 | | Quick Sort Radix Sort | Quick Program | |
| 14 | | Linear or Sequential Searching | Sequential Program | |
| 15 | | Binary Searching | Binary Program | |

Instructor Signature:

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