

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Baghdad
College: Science for women
Department: computer science
Stage: first stage
Lecturer name: Ahmed Jameel
Qualification: M.Sc. in Applied Mathematics
Place of work: : college of Science for women/ computer science

Course Weekly Outline

| Week | Date | Topes Covered | Lab. Experiment Assignments | Notes |
|------|------|--|-----------------------------|-------|
| 1 | | and Bad Proofs, Course Good Information | | |
| 2 | | and Proofs, Proofs Propositions by Contradiction and Cases | | |
| 3 | | Predicate Logic , Sets theory | | |
| 4 | | Induction I | | |
| 5 | | Induction II | | |
| 6 | | Relations I | | |
| 7 | | Relations II | | |
| 8 | | Functions | | |
| 9 | | Graph Theory I | | |
| 10 | | Theory II Graph | | |
| 11 | | Graph Theory III | | |
| 12 | | Number Theory I | | |
| 13 | | Theory II Number | | |
| 14 | | Quiz 1 and Solution | | |
| 15 | | State Machines : Invariants Fallacies with Infinity | | |

Instructor Signature:

Dean Signature:

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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Syllabus Form

| | | | | | |
|--------------------|---|------------|---------|---------|------------|
| Instructor Name | Ahmed Jameel | | | | |
| E-mail | Ahmed_jameel8@yahoo.com | | | | |
| Course Title | Discrete Structures | | | | |
| Course Coordinator | | | | | |
| Course Objectives | Studying Discrete Mathematics subjects (set theory , relation ,function ...etc) | | | | |
| Course Description | It Consist of studying (set theory , set algebra , mapping , relation , functions , mathematical induction, proposition logic) | | | | |
| Textbook | A first course in abstract algebra , third edition, john B. fraleigh ,1995 Graph Theory by Reinhard Diestel Third Edition Springer-Verlag, Heidelberg Graduate Texts in Mathematics, Volume 173 ,431 pages First Course in Discrete Mathematics by Ian Anderson Publisher: Springer-Verlag New York, LLC Pub. Date: January 2001 212pp Essential Computer Mathematics By Seymour Lipschutz schaum's outline series | | | | |
| References | A first course in abstract algebra , third edition, john B. fraleigh ,1995 Graph Theory by Reinhard Diestel Third Edition Springer-Verlag, Heidelberg Graduate Texts in Mathematics, Volume 173 ,431 pages First Course in Discrete Mathematics by Ian Anderson Publisher: Springer-Verlag New York, LLC Pub. Date: January 2001 212pp | | | | |
| Course Assessments | Term Tests | Laboratory | Quizzes | Project | Final Exam |
| | As(30%) | As(0%) | As(10%) | - | As(60%) |
| General Notes | Type here general notes regarding the course | | | | |