



### Flow up of implementation cell pass play

|                    |  |            |         |         |            |
|--------------------|--|------------|---------|---------|------------|
| Course Instructor  | Professor Dr. Ziyad Tariq Mustafa  |            |         |         |            |
| E-mail             | Ziyad1964tariq@yahoo.com   |            |         |         |            |
| Title              | Artificial Intelligence (A.I)  |            |         |         |            |
| Course Coordinator |  |            |         |         |            |
| Course Objective   | The course aims to teach students Artificial Intelligence in computer science field  |            |         |         |            |
| Course Description | A.I applications, Problem Solving, State Space Search, Search Algorithms, Strategies for State Space Search, Knowledge Representation, Planning Systems, Understanding, Blackboard Systems, Natural Language Processing(NLP) |            |         |         |            |
| Textbook           | George F. Luger "Artificial Intelligence-Structures and strategies for Complex problem Solving " , Sixth Edition ,2009 , Pearson Education /PHI.   |            |         |         |            |
| Course Assessments | Term Tests   | Laboratory | Quizzes | Project | Final Exam |
|                    | As(30%)  | As(10%)    | As(10%) | -       | As (50%)   |
| General Notes      |  |            |         |         |            |

Republic of Iraq

بسم الله الرحمن الرحيم

University: Diyala

College: Science

Department: Computer Sc.

Stage: Third

Lecturer name: Dr. Ziyad Tariq M.

Qualification: Professor

Place of Work: Diyala

university College: Science college

The Ministry of Higher Education &  
Scientific Research



## Course Weekly Outline

| Week | Date       | Topics Covered   | Lab. Experiment Assignments | Notes |
|------|------------|--|-----------------------------|-------|
| 1    | 1/10/2014  | Introduction, What is an A.I.  |                             |       |
| 2    | 8/10/2014  | The A.I. Problems, Intelligent Task Requirements                         |                             |       |
| 3    | 15/10/2014 | The A.I. Applications  |                             |       |
| 4    | 22/10/2014 | What is an A.I. Techniques   |                             |       |
| 5    | 29/10/2014 | Problem Solving, Graph and Tree  |                             |       |
| 6    | 5/11/2014  | State Space search   |                             |       |
| 7    | 12/11/2014 | Examples (Traveling sales man Problem(TSP)), 8-Puzzle, Water Jug Problem |                             |       |
| 8    | 19/11/2014 | Search Algorithms(Systematic (Blind) search Algorithms                   |                             |       |
| 9    | 26/11/2014 | Depth First search and Breadth search                                    |                             |       |
| 10   | 3/12/2014  | Examples   |                             |       |
| 11   | 10/12/2014 | Advantages and Disadvantages   |                             |       |
| 12   | 17/12/2014 | Heuristic Search Algorithms, Hill Climbing Algorithm( Examples)          |                             |       |
| 13   | 24/12/2014 | Best First Search Algorithm ( Examples)                                  |                             |       |
| 14   | 31/12/2014 | A* Algorithm ( Examples)   |                             |       |
| 15   | 7/1/2015   | Properties of Heuristic Function   |                             |       |

Instructor Signature:

Dean Signature: