**EE 661- Artificial Intelligence**

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| **Lecture Schedule** | | See Timetable | **Course Type, Semester** | Major for computer  Fall-2019 | | |
| **Credit Hours** | | Three | **Pre-requisite** |  | | |
| **Instructor** | | Irfan Chaudhary | **Contact** | [irfanc@mit.edu](mailto:irfanc@mit.edu) | | |
| **Office** | | First Floor, EE Dept. | **Office Hours** | MW 12 | | |
| **Teaching Assistant** | | None | **Lab Schedule** | N/A | | |
| **Course Description** | | This course covers basics of artificial intelligence such as knowledge representation, problem-solving and learning methods. Students will be expected to read research papers and discuss them in class. | | | | |
| **Measurable Learning Outcomes** | **CLOs** | **Description** | | | **Domain & Level** | **PLOs, Level** |
| CLO1 | Apply reasoning and searching to real-world problems. | | | Cognitive, 3 | PLO1  Medium |
| CLO2 | Develop solutions to practical problems by using various learning techniques. | | | Cognitive, 3 | PLO3  Medium |
|  | CLO3 | Understand the role of probability in artificial intelligence. | | | Cognitive, 2 | PLO 1  Medium |
| **Textbooks** | | **REQUIRED**: Artificial Intelligence (3rd Edition) by Patrick H. Winston***REFERENCES:***  1. Artificial Intelligence: A Modern Approach (3rd Edition) by Stuart Russel and Peter Norvig | | | | |
| **Grading Policy vis-à-vis CLO Mapping** | | * Quizzes + Assignments: 30% CLO1, CLO2 * Midterm: 30% CLO1 * Final: 40% CLO1, ClO2 | | | | |

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| **Weeks** | Topics | CLO |
| 1-3 | 1. Introduction 2. Reasoning | 1 |
| 4-6 | 1. Searching 2. Constraints | 1 |
| 7-12 | 1. Learning | 2 |
| 13-16 | 1. Human intelligence 2. Probabilistic interference | 3 |