

**Polytechnic University of Puerto Rico**  
**Department of Electrical Engineering**  
**Master's Degree in Electrical Engineering**

**Course Syllabus**

**Course Title** : Artificial Intelligence

**Course Code** : [EE 7550](#)

**Credits** : Three (3) Credits

**Duration** : One academic quarter

**Schedule** : Forty-five credit hours per course.

**Pre-requisites:** ??

**Course Description**

CECS 7550: Artificial Intelligence I (3 credits)

This course offers a broad overview in the field of artificial intelligence and Knowledge Based Expert Systems. A basic background in computer science and programming in structured languages is assumed. The course surveys the major topics in Artificial Intelligence (AI). It begins with an overview of what constitutes AI and an introduction to intelligent agents. This is followed by a series of traditional AI topics such as logic, predicate calculus, knowledge representation, reasoning, planning, inference, heuristic and adversary search, artificial neural networks, machine learning, genetic algorithms, fuzzy logic and logic programming.

**Justification**

**Objectives**

**Textbook**

**Topics Covered:**

**Evaluation Criteria:**

Final grade will be determined based on the following scale:

100 – 90 A

89 – 80 B

79 – 79 C

69 – 60 D  
59 – 0 F

**Course History:**

**Bibliography:**