COURSE PRESENTATION FORM – ACADEMIC YEAR 2010/2011

COURSE NAME	**Introduction to Artificial Intelligence**
COURSE CODE	70156 (BSc and MSc 509) / 72058 (MSc 270) / 70056 (BSc OLD)
LECTURER	Stefano Borgo
TEACHING ASSISTANTS	--
TEACHING LANGUAGE	English
CREDIT POINTS	4
LECTURE HOURS	24
EXERCISE HOURS	12
TIME SPAN	27.09.2010 - 21.01.2011
TIME TABLE	See Timetable Page
OFFICE HOURS LECTURER	During the lecture time, Thursday morning (by appointment), Faculty of CS, POS Building, piazza Domenicani 3, office 2.03
OFFICE HOURS TEACHING ASSISTANT	During the lecture time, TBD, Faculty of CS, POS Building, piazza Domenicani 3, office 1.08 / 1.12
PREREQUISITES	Knowledge: • Knowledge of First Order Logic formalism • Good understanding of programming techniques (recursion, data and procedural abstraction)
OBJECTIVES	Students will be introduced to the key foundational and methodological issues in Artificial Intelligence (AI). The course will provide an overview of a variety of AI topics and techniques and their application. The theoretical discussion will be underpinned by practical exercises, thus providing students with an appreciation of the applicability of the techniques described in the course.
SYLLABUS	• Introduction to AI, Intelligent Agents. • Knowledge representation. • Connectionist modeling. • Games and information. • Introduction to problem solving.
TEACHING FORMAT	Frontal lectures and lab exercises.

ASSESSMENT

- Final written exam (70 % of mark)
- Assignments (20 % of mark)
- In class tests (10 % of mark)

The assignments will count for all 3 regular exam sessions; any assignment can be resubmitted.

READING LIST

Textbook:

- S. Russell and P. Norvig, Artificial Intelligence: a Modern Approach (3nd edition), Prentice Hall, 2010

Additional reading material will be distributed during the course.

SOFTWARE USED

None.

LEARNING OUTCOME

After completing this module, students should:

- be able to discuss and compare a variety of approaches in AI;
- be able to indicate the approach that better addresses a given problem;
- be able to describe some AI techniques;
- be able to demonstrate the understanding of reasoning techniques and their applications;
- be able to apply a given method to solve a simple problem.

COURSE PAGE

http://www.loa-cnr.it/Courses/AI2010.html