

Introduction to Artificial Intelligence



Course code: MLDM IAI ECTS Credits: 6.00 Course level: Master

Course instructor: François Jacquenet

Education period (Dates): 1st semester

Language of instruction: English

Expected prior-knowledge: none.

Aim and learning outcomes:

This course presents a basic introduction to AI tools: logic, prolog programming and natural language processing.

Topics to be taught (may be modified)~40h:

- Propositional Logic.
- First order logic.
- Prolog and Constraint Programming.
- Basics of Natural Language Processing.

Practical Laboratory Sessions~10h:

• Prolog Programming and CLP.

Teaching methods: Lectures and lab classes.

Form(s) of Assessment: written exams.

Literature and study materials:

- Introduction to Logic, Third Edition, Michael R. Genesereth, Eric Kao, Morgan & Claypool Publishers.
- Language, Proof and Logic, David Barker-plummer, Jon Barwise, John Etchemendy, University of Chicago Press.
- *Programming in Prolog*, William E. Clocksin and Christopher S. Mellish, Springer Verlag.
- The Art of Prolog, Advanced Programming Techniques, Leon Sterling and Ehud Shapiro, MIT Press.
- Speech and Language Processing (3rd ed. draft), Dan Jurafsky and James H. Martin, see Dan Jurafsky's web site.

Additional information:

François Jacquenet University Jean Monnet, Saint-Etienne

e-mail: Francois.Jacquenet@univ-st-etienne.fr

Home page: http://mldm.univ-st-etienne.fr