

## Information Systems



ECTS  
3 crédits



Hourly volume  
45h

## Introducing

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### Description

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### Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

- The different data models, their advantages and limits
- The languages : XML, DTD, and XML schema
- The language XPath
- Processing language processing XLS
- XQuery query languages

- The Information Systems taxonomy (enterprise resource planning or ERP, custom/extended relationship management CRM/XRM, product data management or PDMs, etc).

- The best practices for Information Systems management based on ITIL (Information Technology Infrastructure Library)

The student will be able to use these concepts and principles to effectively implement an XML database :

- to design the XML database
- to enable XSL transformation of XML data into HTML
- to implement queries the database to support the XQuery language and verify their correction with expected results;

Moreover, the student will be able to produce a analysis study of a real information system in order to evaluate its qualities based on the ITIL best practices.

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### Necessary prerequisites

Database Management, object programming.

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## Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

## Practical info

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### Location(s)

 Toulouse