SYLLABUS: MARKUP LANGUAGES AND INFORMATION MANAGEMENT SYSTEMS	CREDITS: 7

COMPETENCES
AFTER COMPLETING THIS COURSE, STUDENTS WILL BE ABLE TO: C1: Install, configure and manage network services. C2: Manage applications installing and configuring the software, in terms of quality to meet the needs of the organization.

COMPETENCES DISTRIBUTION		
COMPETENCE	ESSENTIAL 80% TIME 80% MARK	IDEAL 20% TIME 20% MARK
C1.1: Use markup languages for transmission of information through the web analyzing the structure of documents and identifying their elements.	X	
C2.1: Managing information in XML format analyzing and using storage technologies and query languages.	X	
C2.2: Working with enterprise information management systems performing tasks import, integration, assurance and information extraction.		X

CONTENTS
Markup languages: - Concept and general characteristics, advantages for the treatment of information. - Classification, use and identification. - XML, characteristics, labels. - Editing tools. - Development of well-formed XML documents, structure and syntax. - Using namespaces in XML. Using markup languages in web environments: - Structure of an HTML document. - Identification HTML tags and attributes. - XHTML, HTML syntax and structural differences. - Versions of HTML and XHTML. - XHTML in management information systems. - Web design tools. - HTML. - Style sheets. Application of markup languages for content syndication: - Syndication, advantages for the management and transmission of information. - Areas of application. - Base Technologies. - Structure of content channels. - Technologies creating content channels.

- Creation, validation and verification capabilities content channels.
- Specific tools, directories content channels and aggregation.

Definition of schemas and XML vocabularies:
- Description of information transmitted in XML documents, structure, syntax and rules.
- Technologies.
- Using methods of defining XML documents.
- Creating descriptions.
- Partnership with XML documents.
- Validation.
- Creation and validation tools.
- Documentation of the descriptions.

Conversion and adaptation of XML documents:
- Conversion of XML documents, need and scope.
- Techniques for transforming XML documents. Technologies.
- Description of the structure and syntax.
- Specifications conversion. Using templates.
- Using processing tools.
- Conversion of output formats.
- Preparation of documentation.

Storing Information Management and XML formats:
- Storage systems in XML format. Advantages and disadvantages. Technologies.
- Management systems relational databases and XML documents. Storage, search and retrieval of information.
- Management systems XML native databases.
- Tools and techniques for processing and storage of information in XML format.
- Query languages and handling.

Business management systems:
- Concept and characteristics.
- Key business management applications.
- Installation.
- Adaptation and configuration.
- Secure access. Verification.
- Integration modules.
- Preparation of reports.
- Integration with office applications.
- Export of information.
- Troubleshooting.
- Preparation of operating documents.