國立東華大學

教學計劃表　Syllabus

課程名稱(中文) Course Name in Chinese	XML設計與應用			學年/學期 Academic Year/Semester		107/1
課程名稱(英文) Course Name in English	XML Design and Applications					
科目代碼 Course Code	CSIEB0250	系級 Department & Year	學四	開課單位 Course-Offering Department		資訊工程學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0		
授課教師 Instructor	/張道顧					
先修課程 Prerequisite						

課程描述　Course Description

XML is a markup language for documents containing structured information. Structured information contains both content (words, pictures, etc.) and some indication of what role that content plays (for example, content in a section heading has a different meaning from content in a footnote, which means something different than content in a figure caption or content in a database table, etc.). Almost all documents have some structure. A markup language is a mechanism to identify structures in a document. The XML specification defines a standard way to add markup to documents.

XML specifies neither semantics nor a tag set. In fact XML is really a meta-language for describing markup languages. In other words, XML provides a facility to define tags and the structural relationships between them. Since there's no predefined tag set, there can't be any preconceived semantics. All of the semantics of an XML document will either be defined by the applications that process them or by stylesheets.

課程目標　Course Objectives

XML文件已廣泛被應用到各個領域，例如出版、文件規格、資料儲存、電子資料交換、
系統整合等等。本課程包括XML與其相關技術與應用、網路服務等主題。

	系專業能力 Basic Learning Outcomes	課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	資訊專業終身學習能力Profound professional knowledge and skills	●
B	實驗驗證資訊科學能力Sound and free spirit; simple and generous quality	○
C	資訊工具整合運用能力Ability to appreciate beauty and think creatively	●
D	資訊系統應用設計開發能力Sense of democracy, the rule of law, and civil responsibility	●
E	團隊合作溝通協調能力Ability of communication, teamwork, and social practice	●
F	資通訊科技問題解決能力Possess both domestic and global perspectives	○
G	瞭解資訊科技多元影響能力Knowledgeable and possess the quality of humanism	○
H	肩負資訊人社會責任能力Ability of verbal expression and information organization and application	○

圖示說明Illustration ：● 高度相關 Highly correlated ○中度相關 Moderately correlated

授 課 進 度 表 Teaching Schedule & Content		
週次Week	內容 Subject/Topics	備註Remarks
1	Introduction to XML	
2	XML Syntax	
3	Document Type Definition (DTD)	
4	XML Schema	
5	XPath	
6	XQuery	
7	XSLT	
8	Labs of XSLT	
9	期中考試週 Midterm Exam	
10	DOM/SAX	
11	Labs of DOM/SAX	
12	XLink, XPointer, RDF, SVG, SMIL	
13	Introduction to SOAP	
14	Introduction to Web Services	
15	XML Encryption and Signature	
16	HTML5	
17	HTML5	
18	期末考試週 Final Exam	

教 學 策 略 Teaching Strategies

☑ 課堂講授 Lecture　　　☐ 分組討論Group Discussion　　☐ 參觀實習 Field Trip

☐ 其他Miscellaneous:

教 學 創 新 自 評 Teaching Self-Evaluation

創新教學(Innovative Teaching)

☑ 問題導向學習(PBL)　　　☑ 團體合作學習(TBL)　　　☐ 解決導向學習(SBL)

☐ 翻轉教室 Flipped Classroom　　　☐ 磨課師 Moocs

社會責任(Social Responsibility)

☐ 在地實踐Community Practice　　　☐ 產學合作 Industy-Academia Cooperation

跨域合作(Transdisciplinary Projects)

☐ 跨界教學Transdisciplinary Teaching　　☐ 跨院系教學Inter-collegiate Teaching

☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	10%								
期中考成績 Midterm Exam	30%								
期末考成績 Final Exam	40%								
作業成績 Homework and/or Assignments	20%								
其他 Miscellaneous (＿＿＿＿＿)									

評量方式補充說明 Grading & Assessments Supplemental instructions

教科書與參考書目（書名、作者、書局、代理商、說明） Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址（教師個人網址請列在本校內之網址） Teaching Aids & Teacher's Website (Personal website can be listed here.)
http://www.w3schools.com/xml/default.asp http://kek.ksu.ru/eos/ECOMMERCE/xmlbyexample/intro.html (http://www.dcc.fc.up.pt/~zp/aulas/0405/pde/geral/bibliografia/XML%20By%20Example.pdf)

其他補充說明（Supplemental instructions）