



COURSE OUTLINE : CS/IS 263
D Credit – Degree Applicable
COURSE ID 005299
Cyclical Review: September 2020

COURSE DISCIPLINE : CS/IS
COURSE NUMBER : 263
COURSE TITLE (FULL) : Database-Driven Web Page Creation
COURSE TITLE (SHORT) : Database-Driven Web Page

CATALOG DESCRIPTION

CS/IS 263 is a hands-on course designed to introduce the student to the latest techniques in database-driven Web page creation. This course focuses on the methods and techniques used to generate on-the-fly Web pages from Internet databases. Students will learn to write, debug, and test Extensible Markup Language (XML) data and then create Web pages using a style sheet language. XML and the XML Style sheet language (XSL) will be used in this course.

Total Lecture Units: 3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours: 54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged:0.00

Total Contact Hours: 54.00

Total Out-of-Class Hours: 108.00

Recommended Preparation: CS/IS 260 or equivalent.



ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1				Be able to create a web site	Yes

EXIT STANDARDS

- 1 Design schema and data type definitions (DTD) for use with XML databases;
- 2 create style sheets using XSL;
- 3 create Web pages using XML and XSL;
- 4 create Web pages with RSS (Really Simple Syndication) feeds.

STUDENT LEARNING OUTCOMES

- 1 explain ways to use XML databases;
- 2 explain how XML and XSL create Web pages;
- 3 explain RSS (Really Simple Syndication) feeds.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Course Introduction	5	0	5
2	Introduction to XML	5	0	5
3	Validation <ul style="list-style-type: none"> • Document Type Definitions • XML Schemas 	9	0	9
4	Processing with XML Stylesheet Language Transformations (XSLT)	5	0	5
5	XML Document Object Model	4	0	4
6	Simple API (Applied Programming Interface) for XML	4	0	4
7	Communication <ul style="list-style-type: none"> • Really Simple Syndication and Content Syndication • Web Services 	10	0	10
8	Display <ul style="list-style-type: none"> • XHTML (Extensible Hypertext Markup Language) • Cascading Style Sheets (CSS) • Scalable Vector Graphics (SVG) 	12	0	12
				54



OUT OF CLASS ASSIGNMENTS

- 1 project documentation reports;
- 2 programming projects.

METHODS OF EVALUATION

- 1 lab assignments;
- 2 quizzes;
- 3 student presentations;
- 4 mid-term;
- 5 final examination

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
New Perspectives on XML, Comprehensive	Required	Cengage	3	print	Carey, P.	978-1285075822	2015