

**Course description:**

This course prepares students with work related web design skills for advancement into post secondary education and industry. The course is intended to develop fundamental skills in both theory and practical application of the basic web design and development process, project management and teamwork, and problem solving, and interpersonal skill development .

This course explores the use of open source web-based content management systems such as Joomla and other online software solutions, which can be used to create dynamic and flexible web sites and landing pages. Learners will explore the fundamentals of planning dynamic websites, CMS database management, developing CSS-controlled site templates, and creating database driven websites through the planning and creation of their own topic-based sites.

Aims of the course:

The main objective of this course is to teach students the real life CMS tools for fast website development .

Intended Learning Outcomes: (ILOs)

- A. Students will be able to analyze and develop a usable website
- B. Students will understand the concept of CMS and its categories.
- C. Students will be able develop websites using general purpose CMS like joomla.
- D. Students will be able develop websites using special purpose CMS like WordPress.
- E. Students will be able to include advanced web modules like JQuery in web development

Course structures:

Week	Credit Hours	ILOs	Topics	Teaching Procedure	Assessment methods
1	3	A	(Book1)Chapter one: Design Process and Evaluation.	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
2	3	A	(Book1)Chapter two: Optimizing the User Experience.	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
3	3	A	(Book1)Chapter Three : Accessibility. (Book1)Chapter Four:	Presentation methods and techniques, Sources of information and	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam

			Hardware and Software	Instructional Aids	c) 2nd Exam d) Activity file
4	3	A	(Book1)Chapter Five: The Homepage (Book1)Chapter Six: Page Layout	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
5	3	B	<ul style="list-style-type: none"> • CMS Systems • CMS Categories 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
6,7	6	C	(Book2)Building Websites Using Joomla ! <ul style="list-style-type: none"> • Acquiring a host for Joomla • Installing Joomla! • Exploring the Admin Interface • Planning the website • Site map for your Joomla site, project plan, establishment of hosting, installation of Joomla 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
8	3	C	(Book2) <ul style="list-style-type: none"> • Adding and displaying menus • Linking menus to articles and other features 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
9	3	C	(Book2)Finding and adding Joomla extensions <ul style="list-style-type: none"> • Must have extensions for any Joomla site • Adding and setting up 2 “big” extensions (choose blog, calendar, image gallery, Paypal-based shopping cart, or portfolio. Other extensions on approval) 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
10	3	C	(Book2) <ul style="list-style-type: none"> • Navigation • Scrolling and Paging 	Presentation methods and techniques, Sources of information and	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam

			<ul style="list-style-type: none"> • Headings, Titles, and Labels 	Instructional Aids	c) 2nd Exam d) Activity file
11	3	C	<ul style="list-style-type: none"> • (Book2) • Links • Graphics, Images, and Multimedia. • Content Organization 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
12, 13	6	D	<ul style="list-style-type: none"> • Applying previous topics using WordPress 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
14	3	E	<ul style="list-style-type: none"> • JQuery Module 	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file

References:

A. Main Textbooks:

1. Research-Based Web Design & Usability Guidelines, Ben Shneiderman, 2006
2. The Official Joomla!™ Book, Jennifer Marriott, 2011 Pearson Education.

Assessment Methods:

Methods	Grade	Date
Med Exam	20%	
Project	20%	
Assignments (Reports /Quizzes/ Seminar / Tutorials)	10%	
Final Examination	50%	