Microsoft SharePoint 2013: Design and Development for Collaboration
Instructor: Oguz Alpoge

*** Course description
The course teaches advanced SharePoint site designs and programming with the help of Microsoft design tools for hosting on Microsoft web and database servers, Office 365 and Azure.

*** Course goals and objectives
Students enjoy excellent benefits of this course in becoming developers or designers of enterprise applications based on Microsoft SharePoint 2013, the most sophisticated collaboration and content management system. While developing real-world solutions to complex business problems and challenges, students learn how to combine interesting code examples with the services of the Microsoft collaboration platform.

Hands-on solutions focus on using SharePoint Designer 2013, the web browser interface, Visual Studio 2012, InfoPath Designer and Office development tools. Solutions can interact with SharePoint as a service provider, taking advantage of SharePoint's many features such as lists, libraries, document repositories, collaboration sites, publishing sites and search functions.

Currently, there is an ever increasing demand for creative and trained technical SharePoint staff in organizations of all sizes.

*** Course prerequisites
Students will need prior understanding and experience with web design and programming.

*** Course Subjects
Included state-of-the art topics are:
* Creating a live online SharePoint portal in a professional data center
* SharePoint Designer 2013
* Web browser editing interface with Ribbon
* Master Pages, Site Templates, Page Layouts
* Central Administration
* Publishing and Collaboration Sites
* Lists, Libraries
* Branding, Themes and CSS
* HTML5, Javascript, jQuery
* Visual Studio 2012 Integration with the SharePoint Server and Client Object Models
* Interaction with SharePoint Web Services from other web sites
* Web Parts, App Parts and App Models
* Workflow
* Business Data Catalog

* Business Connectivity Services
* InfoPath Forms Designer and Filler
* Code samples, UI design, and platform integration in the context of real-world problems

Course Outline	
Week 1	Introduction to SharePoint 2013, CMS Content Management Systems
	SharePoint Designer 2013
	SharePoint Browser Interface, Office Ribbon
	Introduction to SharePoint Online, Office 365, Azure
	Web browser editing interface with Ribbon
	Web based online SharePoint hosting site access (for free) Account Creation for each student
	Creating Subsites, Blogs, Wikis
	Team Sites and Publishing Sites
Week 2	Master Pages, Site Templates, Page Layouts
	Central Administration
	Publishing and Collaboration Sites
	Lists, Libraries
	Adding Apps from the Catalog
	Creating a live online SharePoint portal at the Online SharePoint data center
	Granting Anonymous Access on the Online SharePoint Server
Week 3	Branding, Themes and CSS
	HTML5, Javascript, jQuery, KendoUI
	Server Object Model, Client Object Model
	Telerik, DevExpress Web Parts, App Parts
	Visual Studio 2012 Integration
	Creating Team Collaboration on he Inline SharePoint Server
	Bootstrap CSS Framework
Week 4	Interaction with SharePoint Web Services
	Web Parts, App Parts and App Models
	Workflow
	Adding App Parts to the Online SharePoint Server
	Business Data Catalog
Week 5	Business Connectivity Services
	REST and SOAP Web Services
	JSON, OAuth Authentication and Security
	InfoPath Forms Designer and Filler
	InfoPath Forms integration with SharePoint Lists, Libraries
	Finalizing the Online Portal Project
	Assessing Job Market Demands

*** Project Work
Learning is based on hands-on, practical exercises. Student will gain access to an online SharePoint hosting provider for publishing his/her designs during class. Code exercises and projects will give major confidence for job interviews. The student will be able to keep the designs. Online projects will help as live demonstration of accomplishments during job interviews. Hundreds of design samples will be shown and the student will be provided in-depth learning on nearly every aspect.

Exercises are presented as hypothetical business challenges. These object-oriented examples build applications that apply the benefits of the MS Office ribbon interface to the richness of SharePoint collaboration and publishing features.

*** Grading and Attendance
Grading is based on attendance, classroom participation and project completion.
Attendance of 80% is required.

*** Required Textbooks
Course Textbooks:
--- Beginning SharePoint 2013: Building Business Solutions
by Perran, Perran, Mason, Rogers (Wrox)
--- Beginning SharePoint 2013 Development
by Fox, Johnson, Follette (Wrox)
--- Pro SharePoint 2013 Branding and Responsive Web Development
by Eric Overfield, Rita Zhang, Oscar Medina and Kanwal Khipple (Jun 12, 2013)
Latest publications by most qualified authors.
We use most up-to-date books by highly qualified authors who are program managers on Microsoft teams.

*** Recommended Textbooks
--- SharePoint 2013 Branding and User Interface Design
by Randy Drisgill, John Ross, Paul Stubbs (Wrox)
--- Microsoft SharePoint 2013 Step by Step
by Olga M. Londer and Penelope Coventry (Aug 21, 2013)