СОФИЙСКИ УНИВЕРСИТЕТ "СВ. КЛИМЕНТ ОХРИДСКИ"
ФАКУЛТЕТ ПО МАТЕМАТИКА И ИНФОРМАТИКА

учебна година: 2011/2012   **семестър:** зимен

наименование на дисциплината: Разработване на SharePoint приложения (Microsoft SharePoint, Application Development)	
хорариум: 2 + 0 + 2 Общо: 60 часа (30 + 0 + 30) ***вид на дисциплината:*** избираема	
специалност: ***курс***: I ***поток:*** Разределени системи и мобилни технологии	
лектор: Ради Атанасов, MCM SharePoint Тихомир Игнатов, Божил Божилов	

1. **Кратка анотация на дисциплината**
   Курсът е избираем за студентите от I курс в магистърската програма "Разпределени системи и мобилни технологии" на направление „Информатика".
   Курсът е предназначен за съществуващи .NET разработчици, които искат да изграждат решения върху Microsoft SharePoint 2010 платформата.

2. **Предварителни изисквания към студентите (отнася се само за избираемите дисциплини)**
   Студентите е необходимо да имат познания по ASP.NET 3.5 с Visual Studio 2008 (или следващи).

3. **Форма на проверка на знанията и уменията и начин на формиране на оценката по дисциплината**

Междинни тестове по време на занятията:	33 % от крайната оценка
Финален тест:	67 % от крайната оценка

4. **Тематичен план (конспект) на дисциплината**

   Module 1: Introduction to the SharePoint 2010 Development Platform
   • Lesson 1: SharePoint 2010 as a Development Platform
   • Lesson 2: SharePoint 2010 Object Hierarchy
   • Lesson 3: Working with SharePoint 2010 Objects
   Lab: Developing with the SharePoint 2010 Object Hierarchy
   • Exercise 1: Creating SharePoint 2010 Application Pages by Using Visual Studio 2010
   • Exercise 2: Enumerating SharePoint 2010 Farm Hierarchies
   • Exercise 3: Manipulating Properties of Objects in the SharePoint Farm

   Module 2: Using SharePoint 2010 Developer Tools

- Lesson 1: Developing SharePoint Sites by Using SharePoint Designer 2010
- Lesson 2: Developing SharePoint Solutions by Using Visual Studio 2010
- Lesson 3: Packaging and Deploying SharePoint 2010 Solutions

Lab: Using SharePoint 2010 Developer Tools
- Exercise 1: Creating Document Libraries by Using SharePoint Designer 2010
- Exercise 2: Creating SharePoint List Definitions and Instances by Using Visual Studio 2010
- Exercise 3:Packaging Features and Solutions by Using Visual Studio 2010

Module 3: Developing SharePoint 2010 Web Parts
- Lesson 1: Developing Standard Web Parts
- Lesson 2: Developing Connected Web Parts
- Lesson 3: Developing Visual Web Parts

Lab: Creating SharePoint 2010 Web Parts by Using Visual Studio 2010
- Exercise 1: Creating, Deploying, and Debugging a Simple Web Part by Using Visual Studio 2010
- Exercise 2: Using SharePoint Components in a Web Part
- Exercise 3: Creating a Visual Web Part by Using Visual Studio 2010

Module 4: Working with SharePoint Objects on the Server
- Lesson 1: Working with SharePoint Sites Programmatically
- Lesson 2: Working with SharePoint Lists Programmatically
- Lesson 3: Working with List Data Programmatically

Lab: Creating and Manipulating Server-Side Objects
- Exercise 1: Creating and Securing Sites Programmatically
- Exercise 2: Creating Lists Programmatically
- Exercise 3: Retrieving Secured Data

Module 5: Creating Event Receivers and Application Settings
- Lesson 1: Creating Event Receivers
- Lesson 2: Working with Web.Config Programmatically

Lab: Creating Event Receivers and Web.Config Modifications
- Exercise 1: Creating List Event Receivers
- Exercise 2: Creating Feature Receivers to Modify Web.Config
- Exercise 3: Creating Web Event Receivers

Module 6: Developing Solutions by Using Business Connectivity Services
- Lesson 1: Business Connectivity Services Overview
- Lesson 2: Developing External Content Types and Lists by Using SharePoint Designer
- Lesson 3: Developing Business Connectivity Services Solutions by Using Visual Studio 2010

Lab: Building Business Connectivity Services Solutions

- Exercise 1: Creating External Content Types and Lists by Using SharePoint Designer 2010
- Exercise 2: Creating Business Data Catalog Models by Using Visual Studio 2010

Module 7: Developing SharePoint 2010 Workflows
- Lesson 1: Creating Workflows with SharePoint Designer
- Lesson 2: Creating Workflows with Visual Studio 2010

Lab: Creating Workflows for SharePoint 2010
- Exercise 1: Creating Workflows by Using SharePoint Designer
- Exercise 2: Creating a Sequential Workflow by Using Visual Studio 2010

Module 8: Working with Client-Based APIs for SharePoint 2010
- Lesson 1: Overview of the SharePoint 2010 Client Object Model
- Lesson 2: Working with the SharePoint 2010 Client Object Model in .NET Applications

Lab: Developing .NET Applications by Using the SharePoint Client Object Model
- Exercise 1: Creating a SharePoint 2010 Site, List, and List Items Using the Client Object Model
- Exercise 2: Building and Using the Console Application

Module 9: Developing Interactive User Interfaces
- Lesson 1: Creating Menu Items and Ribbon Controls
- Lesson 2: Creating Client-Side Dialogs

Lab: Developing User Interface Components for SharePoint 2010 Solutions
- Exercise 1: Creating a Site Actions Menu Item
- Exercise 2: Creating a Ribbon Item
- Exercise 3: Creating a Client-Side Dialog

Module 10: Developing Silverlight Applications for SharePoint
- Lesson 1: Creating Silverlight Applications for SharePoint 2010
- Lesson 2: Deploying and Debugging Silverlight Applications for SharePoint 2010

Lab: Developing Silverlight Applications by using the SharePoint Client Object Model
- Exercise 1: Creating a Silverlight Application
- Exercise 2: Developing the Silverlight Application

Module 11: Developing Sandboxed Solutions
- Lesson 1: Sandboxing and User Solutions
- Lesson 2: Restrictions for Sandboxed Solutions

Lab: Creating Sandboxed Solutions for SharePoint 2010
- Exercise 1: Creating a Sandboxed Solution by Using Visual Studio 2010
- Exercise 2: Investigating Allowed and Disallowed Operations in Sandboxed Solutions

Module 12: Working with SharePoint Server Profiles and Taxonomy APIs
- • Lesson 1: User Profiles
- • Lesson 2: Taxonomies

Lab: Working with User Profiles and Taxonomies Programmatically
- • Working with User Profiles and Taxonomies Programmatically
- • Exercise 1: Managing User Profiles
- • Exercise 2: Working with User Profiles Programmatically

Module 13: Developing Content Management Solutions
- • Lesson 1: Developing Enterprise Content Management Solutions
- • Lesson 2: Developing Web Content Management Solutions

Lab: Branding SharePoint Sites
- • Exercise 1: Customizing Master Pages
- • Exercise 2: Applying a Theme to a SharePoint Site

5. **Литература**

MOC #10175A: Microsoft SharePoint 2010, Application Development. *Student book*