СОФИЙСКИ УНИВЕРСИТЕТ "СВ. КЛИМЕНТ ОХРИДСКИ"

ФАКУЛТЕТ ПО МАТЕМАТИКА И ИНФОРМАТИКА

Приет на заседание на катедра "Компютърна информатика"

с протокол № .../2005 година

Утвърдил:

Декан:

/академик Б. Боянов/

1. ОБЩО ПРЕДСТАВЯНЕ НА ДИСЦИПЛИНАТА

наименование на дисциплината: **Managing and Maintaining a Microsoft Windows Server Environment**

лектор: гл. ас. Георги Георгиев

кредити	общ хорариум	часове седмично	уч. година, семестър	форма на обучение	специал-ност	статут на дисципли-ната
	90	6	летен	редовно	информатика (маг. програми "Информационни системи" и „Разпределени системи и мобилни технологии"	избираема

2. УЧЕБНИ ФОРМИ

аудиторни	*часове*	*извънаудиторни*	*часове*
лекции	45	курсова работа	
семинарни занятия (упражнения)	45	контролна работа	

3. ФОРМИРАНЕ НА ОЦЕНКАТА ПО ДИСЦИПЛИНАТА

	% от оценката
Текуща оценка	
– курсова работа	
– котролна работа	33 %
– активно учатие в часовете	
– присъствие в час	
Изпит	
– практически (задачи)	33 %
– теоретичен	34 %

4. ПРИЛОЖЕНИЯ

Приложение 1: Анотация на дисциплината

Приложение 2: Тематичен план на дисциплината по учебни часове

Приложение 3: Конспект за изпит

Приложение 4: Библиография за курса и изпита

АНОТАЦИЯ

Курсът е избираем за студентите от магистърските програми "Информационни системи" и "Разпределени системи и мобилни технологии" на направление Информатика.

Този курс е начален курс за професионално обучение на системни администратори и системни инженери.

Курсът е изцяло по учебната програма на Microsoft, course 2273: Managing and Maintaining a Microsoft Windows Server 2003 Environment, и е съставен от два курса: course 2274: Managing a Microsoft Windows Server 2003 Environment, и course 2275: Maintaining a Microsoft Windows Server 2003 Environment.

Този курс е подготвителен за Microsoft Certified Professional exam 70-290: Managing and Maintaining a Microsoft Windows Server 2003 Environment.

От кандидатите за този курс се изисква да имат CompTIA A+ сертификат и CompTIA Network+ сертификат.

ТЕМАТИЧЕН ПЛАН

№	ТЕМА	лекции	упраж-нения
	Part 1: Managing a Microsoft Windows Server 2003 Environment		
1	Module 1: Introduction to Administering Accounts and Resources	2	2
2	Module 2: Managing User and Computer Accounts	1	1
3	Module 3: Helping Managing Groups	1	1
4	Module 4: Managing Access to Resources	2	2
5	Module 5: Implementing Printing	2	2
6	Module 6: Managing Printing	1	1
7	Module 7: Managing Access to Objects in Organizational Units	3	3
8	Module 8: Implementing Group Policy	3	3
9	Module 9: Managing the User Environment by Using Group Policy	3	3
10	Module 10: Introduction to Security in Windows Server 2003: Implementing Administrative Templates and Audit Policy	3	2
	Part 2: Maintaining a Microsoft Windows Server 2003 Environment		
11	Module 11: Preparing to Administer a Server	3	3
12	Module 12: Preparing to Monitor Server Performance	3	3
13	Module 13: Monitoring Server Performance	3	3
14	Module 14: Maintaining Device Drivers	3	3
15	Module 15: Managing Disks	3	3
16	Module 16: Managing Data Storage	3	3
17	Module 17: Managing Disaster Recovery	3	3
18	Module 18: Maintaining Software by Using Software Update Services	3	3

КОНСПЕКТ

Part 1: Managing a Microsoft Windows Server 2003 Environment

Module 1: Introduction to Administering Accounts and Resources (2 часа)

- Introduction to Administering Accounts and Resources
- The Windows Server 2003 Family
- Logging on to Windows Server 2003
- Installing and Configuring Administrative Tools
- Creating User Accounts
- Creating Computer Accounts
- Creating an Organizational Unit

LAB 1.1: Creating Accounts and Organizational Units (2 часа)

- Creating an Organizational Unit Hierarchy
- Creating Computer Accounts
- Creating User Accounts

Module 2: Managing User and Computer Accounts (1 час)

- Modifying Users and Computer Account Properties
- Enabling and Unlocking User and Computer Accounts
- Creating a User Account Template
- Locating User and Computer Accounts in Active Directory
- Saving Queries
- Resetting User and Computer Accounts
- Moving Domain Objects

LAB 2.1: Managing User and Computer Accounts (1 час)

- Searching for and Moving User Accounts
- Searching for and Moving Computer Accounts
- Searching for and Enabling User Accounts

Module 3: Helping Managing Groups (1 час)

- Creating Groups
- Managing Group Membership
- Strategies for Using Groups
- Modifying Groups
- Using Default Groups
- Best Practices for Managing Groups

LABS 3.1: Creating and Managing Groups (1 час)

Module 4: Managing Access to Resources (2 часа)

- Overview of Managing Access to Resources

- Managing Access to Shared Folders
- Managing Access to Files and Folders Using NTFS Permissions
- Determining Effective Permissions
- Managing Access to Shared Files Using Offline Caching

LABS 4.1: Managing Access to Resources (2 часа)

- Configuring Access for Manufacturing Personnel
- Configuring Access for Marketing Personnel
- Configuring Access for Purchasing Personnel

Module 5: Implementing Printing (2 часа)

- Introduction to Printing in the Windows Server 2003 Family
- Installing and Sharing Printers
- Managing Access to Printers Using Shared Printer Permissions
- Managing Printer Drivers
- Implementing Printer Locations

LAB 5.1: Implementing Printing (2 часа)

- Install Printers
- Browse Network Printers with Locations

Module 6: Managing Printing (1 час)

- Changing the Location of the Print Spooler
- Setting Printer Priorities
- Scheduling Printer Availability
- Configuring a Printing Pool

LABS 6.1: Managing Printing (1 час)

- Creating Printing Pools
- Setting Printer Priorities and Availability

Module 7: Managing Access to Objects in Organizational Units (3 часа)

- Multimedia: The Role of the Organizational Unit
- Modifying Permissions for Active Directory Objects
- Delegating Control of Organizational Units

LABS 7.1: Managing Access to Objects in Organizational Units (3 часа)

- Delegating Administrative Control
- Documenting Security of an Object Created in an Organizational Unit

Module 8: Implementing Group Policy (3 часа)

- Implementing Group Policy Objects
- Implementing Group Policy Objects on a Domain
- Managing the Deployment of Group Policy

LABS 8.1: Implementing a GPO (3 часа)

- Creating and Linking GPOs

- Configuring Group Filtering on GPOs

- Configuring the Enforcement of GPOs

- Configuring the Blocking of GPOs

Module 9: Managing the User Environment by Using Group Policy (3 часа)

- Configuring Group Policy Settings

- Assigning Scripts with Group Policy

- Configuring Folder Redirection

- Determining Applied GPOs

LABS 9.1: Using Group Policy Reports (3 час)

- Creating a Group Policy

- Generating a Group Policy Modeling Report

- Generating a Group Policy Results Report

Module 10: Introduction to Security in Windows Server 2003: Implementing Administrative Templates and Audit Policy (3 часа)

- Overview of Security in Windows Server 2003

- Using Security Templates to Secure Computers

- Testing Computer Security Policy

- Configuring Auditing

- Managing Security Logs

LABS 10.1: Managing Security Settings (3 часа)

- Creating a Custom Template

- Testing a Custom Template

- Deploying a Custom Template by Using a GPO

- Configuring and Testing Security Audits of Organizational Units

Part 2: Maintaining a Microsoft Windows Server 2003 Environment

Module 11: Preparing to Administer a Server (3 часа)

- Administering a Server

- Configuring Remote Desktop to Administer a Server

- Managing Remote Desktop Connections

LABS 11.1: Preparing to Administer a Server (3 часа)

- Creating a Shared Folder on a Remote Computer

- Defragmenting a Disk on a Remote Computer

- Connecting to a Remote Console Session

- Creating Shortcuts to Administration Tools

Module 12: Preparing to Monitor Server Performance (3 часа)

- Introduction to Monitoring Server Performance

- Performing Real-Time and Logged Monitoring

- Configuring and Managing Counter Logs
- Configuring Alerts

LABS 12.1: Preparing to Monitor Server Performance (3 часа)

- Selecting the Appropriate Monitoring Technique

Module 13: Monitoring Server Performance (3 часа)

- Monitoring Server Memory
- Monitoring Processor Usage
- Monitoring Disks
- Monitoring Network Usage

LABS 13.1: Monitoring Server Performance (3 часа)

- Starting Performance with Administrative Controls
- Configuring System Monitor to Track High CPU Usage
- Creating and Configuring an Alert in Performance Logs and Alerts to Track High CPU Usage
- Enabling the Messenger Service
- Testing the High CPU Usage Alert

Module 14: Maintaining Device Drivers (3 часа)

- Configuring Device Driver Signing Options
- Using Device Driver Rollback

LABS 14.1: Maintaining Device Drivers (3 часа)

- Viewing the Current File Signature Verification Setting
- Modifying the Default Setting
- Adding a Computer to the Organizational Unit
- Verifying the New File Signature Verification Setting

Module 15: Managing Disks (3 часа)

- Preparing Disks
- Managing Disk Properties
- Managing Mounted Drives
- Converting Disks
- Creating Volumes
- Importing a Foreign Disk

LABS 15.1: Managing Disks (3 часа)

- Mounting Drive E to D:\Graphics
- Changing Drive Letter D to X
- Removing Mounted Drive E
- Changing Drive Letter X to D

Module 16: Managing Data Storage (3 часа)

- Managing File Compression
- Configuring File Encryption

- Implementing Disk Quotas

LABS 16.1: Managing Data (3 часа)

- Configuring Disk Quota Entries

- Exporting Disk Quota Entries

- Importing Disk Quota Entries

- Compressing a Folder

- Encrypting a Folder

Module 17: Managing Disaster Recovery (3 часа)

- Preparing for Disaster Recovery

- Backing Up Data

- Scheduling Backup Jobs

- Restoring Data

- Recovering from Server Failure

- Selecting Disaster Recovery Methods

LABS 17.1: Managing Disaster Recovery (3 часа)

- Installing the Recovery Console

- Backing Up the System State Data

- Creating a Windows Startup Disk

- Recovering from a Corrupt Registry

- Recovering from a Corrupt Boot File

Module 18: Maintaining Software by Using Software Update Services (3 часа)

- Introduction to Software Update Services

- Installing and Configuring Software Update Services

- Managing a Software Update Services Infrastructure

LABS 18.1: Maintaining Software by Using Software Update Services (3 часа)

- Creating a Group Policy Object to Configure Automatic Updates

- Preparing Sample Software Update Packages for Your Clients

- Verifying the Updates Are Available to the Clients

БИБЛИОГРАФИЯ

Основна литература:

1. MOC #2273: Managing and Maintaining a Microsoft Windows Server 2003 Environment – Students book

Допълнителна литература:

1. D. Holme, O. Thomas. MCSA/MCSE Self-Paced Training Kit (Exam 70-290): Managing and Maintaining a Microsoft® Windows Server™ 2003 Environment. MS Press, 2003, 816 pgs.

2. Holme, Thomas, Mackin, McLean, Zacker, Spealman, Hudson, Craft. MCSE Self-Paced Training Kit (Exams 70-290, 70-291, 70-293, 70-294): Microsoft® Windows Server™ 2003 Core Requirements. MS Press, 2003, 4064 pgs.