Syrian Arab Republic Ministry of Higher Education Syrian Virtual University Syrian Virtual University Syrian Virtual University Syrian Virtual University

Course Description: Linux Platform 1

1- Basic Information:

Course Name	Linux Platform 1
Course ID	IOS203
Contact Hours (Registered Sessions)	36
Contact Hours (Synchronized Sessions)	18
MidTerm Exam	NO
Exam	2
Registered Sessions WorkLoad	36
Synchronized Session WorkLoad	18
CreditHours	6

2- Pre-Requisites:

Course	ID
Introduction to Operating Systems	IOS101
Introduction to Networks	INT103
English Level 3	Eng3

3- Course General Objectives:

Upon completion of this course, students should be able to:

- Install and configure a Linux operating system
- Execute commands at the command prompt and get command Help
- Understand and navigate the Linux directory structure
- · Create, move and delete files and directories
- Use the BASH shell, modify the shell environment and export environment variables
- Use and edit command history
- Redirect streams and connect them in order to efficiently process textual data
- Manage processes and monitor system performance
- Edit text files using vim editor

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- Control file access through the proper use of permissions and ownerships
- Understand the Filesystem Hierarchy Standard (FHS) and manage the Linux file system
- Manage packages
- Be familiar with basic networking commands, utilities and services

4- Syllabus Details:

LO	Course Syllabus	Recorded Sessions	Synchronized Sessions		Туре
				×	Exercises
				×	Assignments
1.04	Linux	2	4		Seminars
LO1	Installation	2	1		Projects
				×	Practices
				×	Discussions
Basic LO2 Commands 2		×	Exercises		
	2	1	×	Assignments	
				Seminars	
	2			Projects	
				×	Practices
			×	Discussions	
BASH Shell, Startup LO3 Scripts and 2 Editors			×	Exercises	
			×	Assignments	
		2	1		Seminars
					Projects
				×	Practices
				×	Discussions

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Linux Security Model 2 1 Seminars		I			1	
LO4 Security Model 2 1 Seminars Projects Practices Discussions Exercises Assignments Commands, Compression and Archiving 1 Compression Seminars Projects Practices Discussions Exercises Practices Discussions Exercises Assignments Seminars Projects Assignments Seminars Projects Practices Discussions Exercises Projects Practices Discussions Exercises Assignments Seminars Projects Practices Assignments Seminars Projects Practices Assignments Seminars Seminars Seminars Projects Practices Discussions	Security				×	Exercises
LO4 Model 2		2	1	×	Assignments	
Projects Practices Projects Projects Projects Practices Practic					Seminars	
LO5 Inode, Search Commands, Compression 2 1		2			Projects	
LO5 LO5 LO5 LO5 LO5 LO5 LO6 LO6					×	Practices
Search Commands, Compression and Archiving Seminars Projects Practices Discussions Exercises Assignments Projects Practices Assignments Projects Assignments Seminars Projects Projects					×	Discussions
LO5 Compression and Archiving LO6 Compression and Archiving LO6 Compression 2 1 Projects □ Practices □ Discussions □ Exercises □ Assignments □ Seminars □ Projects □ Project					×	Exercises
LO5 Compression and Archiving Projects Practices Practices Discussions					×	Assignments
and Archiving Projects Practices Discussions Lof Redirection String Processing Projects Projects Practices Assignments Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects Projects	1.05	-	2	4		Seminars
Archiving Image: Practices Image: Discussions	LOS	_	2	'		Projects
LO6 I/O Redirection String Processing					×	Practices
LO6 Redirection String Processing 2 1 Projects Practices Discussions Example Assignments Projects Practices Assignments Process Assignments Seminars Example Assignments Seminars Seminars					×	Discussions
Redirection String Processing Seminars Projects Practices Discussions	Redirection LO6 String				×	Exercises
LO6 String Processing 2 1 □ Projects □ Projects □ Practices □ Discussions □ Exercises □ Assignments □ Seminars □ Seminars □ Seminars				×	Assignments	
Processing □ Projects □ Practices □ Discussions □ Exercises □ Assignments □ Seminars		2	4		Seminars	
Practices Discussions Example Practices Example Process Process Process Management 2 1		2	1		Projects	
Process LO7 Management 2 1 Exercises Assignments Seminars				×	Practices	
Process LO7 Management 2 1 Seminars					×	Discussions
Process LO7 Management 2 1				×	Exercises	
LO7 Management 2 1				×	Assignments	
LO7 Management 2 1	1.07			4		Seminars
□ Flojects	LO7 Management	2	1		Projects	
☑ Practices				×	Practices	
☑ Discussions					×	Discussions
☑ Exercises	Linux File System Management		2	4	×	Exercises
Linux File Assignments		Linux File			×	Assignments
Svetom ☐ Seminars						Seminars
Management Projects		Management	_	•		Projects
☑ Practices					×	Practices
☑ Discussions					×	Discussions

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Boot, Service				×	Exercises
Management		4	×	Assignments	
	2			Seminars	
LO9	Performance	_	1		Projects
	Monitoring			×	Practices
				×	Discussions
				×	Exercises
				×	Assignments
1.040	Package	2	4		Seminars
LO10 Management	2	1		Projects	
			×	Practices	
				×	Discussions
				×	Exercises
				×	Assignments
LO11 Networking	2	1		Seminars	
LOTT	Networking	2	•		Projects
			×	Practices	
				×	Discussions
Network LO12 Services				×	Exercises
			×	Assignments	
		2	1		Seminars
	Sel vices	_			Projects
				×	Practices
				×	Discussions

5- Practice Tools:

Tool Name	Additional Notes
CentOS Linux	Version 6.7 or newer