Syrian Arab Republic		الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالـــــي
Syrian Virtual University		الجامعة الافتراضية السورية

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

Syrian Arab Republic		الجمهورية العربية السورية
Ministry of Higher Education	SVU الجامعـة الافتراضيـة السوريـة SYRIAN VIRTUAL UNIVERSITY	وزارة التعليم العالـــــي
Syrian Virtual University		الجامعة الافتراضية السورية

- 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	Type
LO1	Linux Installation	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO2	Basic Commands	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO3	BASH Shell, Startup Scripts and Editors	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions

LO4	Linux Security Model	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO5	Inode, Search Commands, Compression and Archiving	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO6	I/O Redirection String Processing	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO7	Process Management	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO8	Linux File System Management	2	1	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions

Syrian Arab Republic					الجمهورية العربية السورية
Ministry of Higher Education					وزارة التعليم العالــــي
Syrian Virtual University					الجامعة الافتراضية السورية

LO9	**Boot, Service Management and Performance Monitoring**	**2**	**1**	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO10	**Package Management**	**2**	**1**	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO11	**Networking**	**2**	**1**	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions
LO12	**Network Services**	**2**	**1**	☒ Exercises ☒ Assignments ☐ Seminars ☐ Projects ☒ Practices ☒ Discussions

5- Practice Tools:

Tool Name	Additional Notes
CentOS Linux	Version 6.7 or newer