Jordan University of Science and Technology
Faculty of Computer & Information Technology
Network Engineering And Security Department

NES202 Introduction To Unix
First Semester 2020-2021

Course Catalog
3 Credit Hours. Basic concepts of Unix, such as processes, files and directories, pipes, input/output redirection, and shells, basic Unix commands and programs, and how to get help, when needed, standard program development tools: editors(nano editor), compilers, and the ?make? facility, automated common system tasks using shell scripts, basic system administration.

Text Book	
Title	Your UNIX/LINUX The Ultimate Guide
Author(s)	Sumitabha Das
Edition	3rd Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Unix the textbook	Sarwar, Korestsky, and Sarwar, Addison Wesley	2nd Edition	
Ref#3	Guide to UNIX and LINUX	Harley Hann	1st Edition	

Instructor	
Name	**Mrs. Rana Alkarem**
Office Location	CH1-L0
Office Hours	Sun : 11:30 - 13:00 Mon : 10:00 - 11:30 Tue : 11:30 - 13:00 Wed : 10:00 - 11:30

Email	rkalkarem@just.edu.jo

Class Schedule & Room

Section 1:
  Lecture Time: Sun : 08:30 - 10:00
  Room: منصة الكترونية
 	
Section 2:
  Lecture Time: Sun : 10:00 - 11:30
  Room: منصة الكترونية
 	
Section 3:
  Lecture Time: Mon : 11:30 - 13:00
  Room: منصة الكترونية

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
1732112	CS211 Data Structures	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introducing UNIX	**chapter 1** From **Ref#1**
Week 2	Becoming familiar with UNIX commands	**chapter 2** From **Ref#1**
Weeks 3, 4, 5	File System	**chapter 3** From **Ref#1**
Weeks 6, 7	File attributes	**chapter 4** From **Ref#1**
Weeks 8, 9	The SHELL	**chapter 6** From **Ref#1**
Weeks 10, 11	Program Development Tools	**chapter 16** From **Ref#1**
Week 12	Simple filters using Regular Expressions	**chapter 9** From **Ref#1**
Weeks 13, 14	Shell scripting/programming	**chapter 13** From **Ref#1**
Week 15	Processes & job scheduling	**chapter 7** From **Ref#1**

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the basic principles of UNIX operating system and open source software [1SO1]	8%	
Understand UNIX file system structure and practice UNIX file system commands [1SO1]	20%	
Managing File/directories attributes, Permissions, Ownership and identify user types. [1SO1]	15%	

Understand LINUX /UNIX shells, their components, and customization. [1SO1]	15%	
Understand program development and develop Makefiles. [1SO1]	10%	
Apply regular expressions and filters. [1SO1]	12%	
Develop shell scripts. [1SO1]	14%	
Understand process management and job scheduling. [1SO1]	6%	

Relationship to Program Student Outcomes (Out of 100%)																	
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6	SO7
											100						

Evaluation	
Assessment Tool	**Weight**
MidTerm exam	30%
final exam	40%
assigmnets	20%
labs	10%

Policy	
Exams	1. May include: Definitions, True/False, Multiple-Choice, Analysis and Descriptive formats. 2. Ethical behavior is highly expected from all students 3. Not abiding by the rules is a reason for dismissal from the exam.
Makeups	Makeup exam should not be given unless there is a valid & serious excuse.
Cheating	Standard JUST policy will be applied
Attendance	1. Excellent attendance is expected. 2. According to the JUST policy, a student will receive the grade of ZERO (35%) "failed for absence" if he misses more than 20% of the classes. 3. Attendance will be taken by calling the names or passing a sign-up sheet. 4. If you miss a class, it is your responsibility to find out about any announcements or assignments you may have missed.
Workload	Average work-load student should expect to spend is 6 hours/week.
Graded Exams	Graded exam papers will be returned within a week.
Participation	1. Participation in the class will positively affect your performance. 2. Disruption and side talks will possibly result in dismissal from class. 3. No eating or chewing gums are allowed in class.

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