Course: ITC 5101 – "Operating Systems"

Instructor: Tahir Minhas

CRITICAL PATH

COURSE EVALUTION

Evaluation	Weight	Notes
Exercises (10)	20%	Worth 2% each
Midterm Test	20%	Week 7
Final Exam	20%	Week 14
Assignments (4)	28%	Worth 7% each
Quizzes (2)	12%	Worth 6% each (Week5, Week12)
L	100%	

Exercises - Must be submitted IN-PERSON at the end of each weekly lecture.

Assignments – Must be submitted by the deadline (provided by the instructor)

CLASSROOM POLICIES

• Attendance: In-class presentations are an important part of the course and students are expected to attend all classes unless they can provide medical documentation or evidence of bereavement. Students who fail to present paperwork will receive a mark of zero on the work they were expected to present.

Late Policies:

- **Assignments:** A penalty of 5% per day up to 5 days. After that grade of Zero will be assigned.
- Communication: Send all email communication for the instructor to FACULTY EMAIL

Winter 2022

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COURSE AGENDA

Week & Date	Topics	Evaluation
Week 1 Jan 10 – Jan 16	 Introduction, Course outline. Introduction to Operating Systems, the Unix architecture. History of Linux Concept of Operating System Hardware and software components Unix Logon process How to connect to a remote server using Mac/Windows SSH connection Accessing the terminal 	Exercise1
Week 2 Jan 17 – Jan 23	- General Format of unix commands - Basic Unix Commands	Exercise 2 Assignment 1: posted
Week 3 Jan 24 – Jan 30	 Navigating the file system: cd Listing directory contents ls and various options Creating directories mkdir Removing Directories rm and rmdir preventing accidental deletion 	Exercise 3
Week 4 Jan 31 – Feb 06	 Manipulating files: Creating files touch Deleting files, Sorting files rm sort alphabetically/numerically cut and paste Basic Unix Admin Utilities Basic introduction of Permissions 	Exercise 4
Week 5 Feb 07—Feb 13	 Unix/ Linux file types Extensions File command File and directory permissions Symbolic/numeric notation chmod chown Getting help man info apropos whatis 	Quiz 1 (6%) Assignment 1- due Assignment 2: posted

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Week 6 Feb 14—Feb20	- Advance file processing:	Exercise 5
Week 7 Feb 21—Feb 27* *(Feb 21 Family Day)	- Using the vi Editor: • Entering and navigating text • Insert mode • Command mode • Save/Modify text in a file Copy, cut and paste in vi Editor	Exercise 6 Assignment 2- due Assignment 3: posted
Reading Week Feb 28—Mar 06	Study Week	
Week 8 Mar 07—Mar 13	midterm	
Week 9 Mar 14 –Mar 20	 Redirection/Piping in Unix Input redirection Output redirection Arrow redirection Process management in Unix ps command 	Exercise 7
Week 10 Mar 21 –Mar 27	 Introduction to Shell Script Different types of shell Shell environment Shell variables env command echo command Shell Programming Using variables and operators 	Exercise 8
Week 11 Mar 28 –April 03	- Shell logic structure • If command • If else • If else if • Case logic - Shell loops • For • While • Do while	Exercise 9 Assignment 3- due Assignment 4: posted
Week 12 April 04 – April 10	 Shell Functions Global variables Local variables Basic discussion (awk, sed) 	Quiz 2 (6%)
Week 13 April 11 –April 17* *(April 15 Good Friday)	Final Exam Review	Exercise 10
Week 14 April 18—April 24	Final Exam	Assignment 4 – due