

	Department/ Programme: Computer Science	Course Code:	CPT 213	Credit Hours: 4
	Subject/Course: Introduction to System Administrator			Theoretical: 2 hours/week
	Year: 2 Semester: 1	Pre-requisite:	CPT 115, 123	Practical: 2 hours /week

General Objectives

At the end of this course the student is expect to

- 1- Know who is a System Administrator
2. Know duties of a System Administrator
3. Know Installation and Configuration of System
4. Know User Access Elements
5. Know Configuration of Group and their Permissions
6. Understand Security Monitoring to identify possible Intruder
7. Understand Daily backup Operation
8. Understand Repair and recover from hardware and software failures

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Theoretical Content					Practical Content	
General Objective 1: Know who is a System Administrator						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
1	1.1 Who is a System Administrator 1.2 System Administrator as problem solver	To explain Who is a System Administrator As a Problem solver but not Network Administrator, software engineers etc	Capability to project and demonstrate Who is a System Administrator and who he is not			
General Objective 2: Know duties of a System Administrator						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
2	2.1 Duties of a System Administrator	To explain : Different duties of a System Administrator	Capability to project and demonstrate duties of a System Administrator			
General Objective 3: Know Installation and Configuration of System						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
3	3.1 Installation and Configuration of System	To explain: Process of Installation and Configuration of System	Computer System and software tools to demonstrate installation and configuration of a system	Be able to : Install and Configure a new system	Supervise the laboratory and support students in installation and configuration of system	Computer System and software tools to demonstrate installation and configuration of a system
4	Installation and Configuration of					

	System Continue					
General Objective 4: Know User Access Elements						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
5	To be able to describe : 4.1 Different User Access Elements such as <ul style="list-style-type: none"> Logon information Groups 	To explain how to : <ul style="list-style-type: none"> Logon information Groups 	Capability to project and demonstrate different User Access Elements	Be able to Implement : <ul style="list-style-type: none"> Logon information Groups 	Supervise the laboratory and support students in doing exercises of : <ul style="list-style-type: none"> Logon information Groups 	Computer loaded with appropriate software to perform user Access Elements
6	To be able to describe : 4.2 Different User Access Elements such as <ul style="list-style-type: none"> Roles Privileges Permissions 	To explain how to : <ul style="list-style-type: none"> Roles Privileges Permissions 		Be able to Implement : <ul style="list-style-type: none"> Roles Privileges Permissions 	Supervise the laboratory and support students in doing exercises of : <ul style="list-style-type: none"> Roles Privileges Permissions 	
General Objective 5: Know Configuration of Group and their Permissions						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
7	Be able to describe : 5.1 Configuration of Group	To explain : How to configure group	Capability to project and demonstrate How to configure group	Be able to : Configure Group	Supervise the laboratory and support students in doing exercises of : How to configure group	Computer loaded with appropriate software to perform the task
8	Be able to describe : 5.2 Creating Role	To explain : How to create role within a group	Capability to project and demonstrate How to create role	Be able to : Create a role	Supervise the laboratory and support students in doing exercises of how to create role	Computer loaded with appropriate software to perform the task
9	Be able to describe : 5.3 Editing Role	To explain : How to edit role	Capability to project and demonstrate	Be able to : Edit a role	Supervise the laboratory and support students in	Computer loaded with appropriate

		within a group	How to edit role		doing exercises of how to edit role	software to perform the task
10	Be able to describe : 5.4 Removing Role	To explain : How to remove role	Capability to project and demonstrate How to remove role	Be able to : Remove role	Supervise the laboratory and support students in doing exercises of how to remove role	Computer loaded with appropriate software to perform the task
11	Be able to describe : 5.5 Renaming Role	To explain : How to rename role	Capability to project and demonstrate How to rename role	Be able to : Rename role	Supervise the laboratory and support students in doing exercises of how to rename role	Computer loaded with appropriate software to perform the task
General Objective 6: Understand Security Monitoring to identify possible Intruder						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
12	Be able to describe : 6.1 Authentication, Authorization and Accounting	To explain to student : Different ways of monitoring intruder	Capability to project and demonstrate different ways of monitoring intruder	Be able to : Monitor intruder within the laboratory	Supervise the laboratory and support students in doing exercises monitoring intruder	Computer loaded with appropriate software to perform the task
General Objective 7: Understand Daily backup Operation						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
13	To be able to describe: 7.1 Backup Operation 7.2 Restore Operation	To explain : Different ways of Backup Operation	Capability to project and demonstrate backup and restoring operation	Be able to : - Backup - Restore	Supervise the laboratory and support students in performing backup and restore	Computer loaded with appropriate software to perform the task
General Objective 8: Understand Repair and recover from hardware and software failures						
Week /s	Specific Learning Outcomes	Teacher's activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
	To be able to describe :	To explain :	Capability to	Be able to :	Supervise the	Computer

14	8.1 Hardware Troubleshooting	Common Hardware failure and ways out of it.	project and demonstrate ways out of hardware failures	Troubleshooting different hardware failures	laboratory and support students troubleshooting hardware failure	loaded with appropriate tools to perform the task
15	To be able to describe : 8.2 Software Troubleshooting	To explain : Common Software failure and ways out of it.	Capability to project and demonstrate ways out of software failures	Be able to : Troubleshooting different software failures	Supervise the laboratory and support students troubleshooting software failure	Computer loaded with appropriate software to perform the task

Assessment: Give details of assignments to be used:
 Coursework/ Assignments %; Course test %; Practical %; Projects %; Examination %

Recommended Textbooks & References: