



**NATIONAL UNIVERSITY OF ENGINEERING
COLLEGE OF SCIENCES
COMPUTER SCIENCE PROGRAM**

CC312 – NETWORK ADMINISTRATION

I. GENERAL INFORMATION

CODE	: CC312 Network Administration
SEMESTER	: 6
CREDITS	: 4
HOURS PER WEEK	: 6 (Theory – Laboratory)
PREREQUISITES	: CC311 Network Oriented Computing
CONDITION	: Mandatory

II. COURSE DESCRIPTION

Presents the administration of networks in Linux to complete the knowledge of the use of Linux from the user point of view. It presents details of how routers and switches work and configure within a WAN network.

III. LEARNING UNITS

1. Introduction to Networking
2. Issues over TCP / IP networks
3. Network hardware configuration
4. Configuration of the TCP / IP Protocol
5. Name service and its configuration
6. SLIP: IP by serial line
7. Point-to-point protocol
8. TCP / IP firewall
9. IP Accounting
10. IP Masking and Network Address Translation
11. Important Characteristics of Networks

12. Network Information System (NIS)

13. Network Files System

14. IPX and NCP File System

15. Administration of Taylor UUCP

16. Email

17. News

18. NNTP and NNTP Domain

19. Internet News

20. News reader configuration

21. Useful wiring configurations

22. WAN, Routers and Switches

IV. BIBLIOGRAPHY

- Craig Hunt. TCP/IP network administration, Ed. 3, Published by O'Reilly, 2002.
- Tony Bautts, Terry Dawson, Gregor N. Purdy. Linux network administrator's guide. Ed. 3, Published by O'Reilly, 2005.
- <http://www.ibiblio.org/pub/linux/docs/LuCaS/Manuales-LuCAS/GARL2/garl2/index.html>