

COURSE	Name	: Network Management
	Code	: EE185162
	Credit(s)	: 3
	Semester	: I

Description of Course

Network Management course is a course that delivers/prepare students to be able to understand developing formulations related to network management. In this course, students study material on basic knowledge and basic understanding of network management objectives, network management standards, fault management, configuration management, performance management, and security management.

Learning Outcomes

Knowledge

(P02) Mastering engineering concepts and principles to develop the necessary procedures and strategies for systems analysis and design in the areas of power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

Specific Skill

(KK01) Being able to formulate engineering problems with new ideas for the development of technology in power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

General Skill

(KU11) Being able to implement information and communication technology in the context of execution of his/her work.

Attitude

(S09) Demonstrating attitude of responsibility on work in his/her field of expertise independently.
(S12) Working together to be able to make the most of his/her potential.

Course Learning Outcomes

Knowledge

Students understand the purpose and intent of the management of the standard network and the model so that the research can carry out initial studies, formulate problems, and optimal.

Specific Skill

Students are able to provide an understanding of basic knowledge and basic understanding of network management objectives, network management standards, fault management, configuration management, performance management, and security management, as well as their implementation

General Skill

Students are able to understand developing formulations related to network management.

Attitude

Demonstrate honest, thorough, scientific and ethical attitudes in developing and implementing in the field of network management.

Main Subjects

1. Data Communication and Network Management Overview
2. Review of Computer Network Technology
3. Basics: Standards and Models
4. Fault Management
5. Configuration Management
6. Performance Management
7. Security Management

Reference(s)

- [1] Alexander Clemn, Network Management Fundamentals, Cisco Press Fundamentals series, 2007, ISBN: 9781587201370,1587201372.
- [2] Arne Mikalsen, Per Borgesen, Local Area Network Management, Design & Security, Wiley, 2002, ISBN: 9780471497691,047149769X
- [3] Benoit Claise, Ralf Wolter, Network Management: Accounting and Performance Strategies, Cisco Press,2007, ISBN: 9781587051982,1587051982

Prerequisite(s)

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