Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF334	Computer Networks	6	2	0	2	4	4

Prerequisites	IND211/INF256/INF257/INF211
Admission Requirements	IND211/INF256/INF257/INF211

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	The objective of this course is to teach the principles of networking protocols and standards, to show the aspects of security in computer networks and other applications.
Content	 The OSI and TCP/IP models The classification and characteristics of networks The layers and their functions Data link layer and ethernet Network layer Transport Layer UDP and introduction to socket programming Mid-term exam TCP, reliable data transmission Retransmission methods, flow and congestion control Server/client interaction on web, associated standards. Network security: Security levels Network security: Security levels Socket programming examples
References	 James F. Kurose and Keith W. Ross, "Computer Networking: A Top-Down Approach Featuring The Internet", 2003, Addison Wesley, Pearson Education. Russell Bradford, "The Art of Computer Networking", 2007, Prentice Hall, Pearson Education. Andrew Tannenbaum, "Computer Networks," 1996, Prentice Hall, Inc. D. Bertsekas and R. Gallager, "Data Networks," 2nd Ed., 1992, Prentice Hall, Inc. T.S. Rappoport, "Wireless Communications," 1996, Prentice Hall, Inc.

Theory Topics

Week
