

**강의계획서**

검색조건 :

교양/교직/군사학

핵심교양(영역1) 글쓰기(1-①)

[수업시간][건물 및 교과구분 코드][검색]

[영문강의계획서보기(Syllabus)]

과목명	컴퓨터통신망특론
과목번호	ELEC754001
학점	3.0
개설대학	전자공학부
개설학기	20161
교과구분	전공
담당교수	조유제
강의시간	수1A1B2A 수2B3A3B
강의실명	IT대학1호관(공대10호관)513 IT대학1호관(공대10호관)513
연락처/E-mail	** 통합정보시스템 로그인- 수업/성적- 수업- "강의담당교수조회"에서 확인 가능함.
면담시간	
강의언어	한국어

**[ 강의계획서 ]**

강의개요 및 목적
<p>This is an introductory course on computer networks. This course introduces the concepts and basic principles of computer networks with focus on the Internet's architecture and protocols. The objective of this course is to understand layers of computer networks, understand functions and protocols of layers, and understand how the Internet works.</p> <p>Topics to be covered include: overview of computer network architectures, applications, socket programming, transport layer, network layer, data link layer protocols, wired/wireless LANs, and mobile networks. Other issues such as multimedia networking and mobile ad hoc networks may be covered as special topics.</p>
교재 및 참고문헌
<ul style="list-style-type: none"> <li>- Text book: Computer Networking A Top-down Approach, Kurose and Ross, Pearson, 6th Ed., 2012</li> <li>- Reference: Communication Networks, Leon-Garcia and Widjaja, McGraw Hill, 2nd Ed., 2004</li> </ul>

강의진행 방법 및 활용매체
- Power Point slides and beam projector
과제, 평가방법, 선수과목
- Evaluation: . Midterm Exam: 35% . Final Exam: 35% . Homework & Term projects: 25% . Presence: 5%  - Prerequisite Courses: . Data communication, computer architecture, C/C++-programming etc.
수강에 특별히 참고할 사항
- Lecture notes will be distributed via the web site ( <a href="http://abeek.knu.ac.kr/index.jsp">http://abeek.knu.ac.kr/index.jsp</a> ). - All homeworks should be submitted by on-line. - This lecture will be given in Korean.
장애학생을 위한 학습지원 사항
가. 청각장애 학생 : 앞자리 지정석, 긴급 전달사항은 메모활용 등  나. 지체장애 학생 : 시험시간연장 등  다. 시각장애 학생 : 시험지 확대복사제공 등  라. 기타 장애정도에 따라 필요한 사안이 발생시 최대한 편의 제공함

 [ 강의 내용 및 일정 ]

no	강의 요목 및 수업목표	과제 및 연구문제	교재 및 참고자료	비고
1	Week 1: Computer Networks and the Internet . Internet architecture . Packet-switched networks . Layer architecture and protocols . Internet history			
2	Week 2: Application Layer Protocols (1) . Web and HTTP . FTP			
3	Week 3: Application Layer Protocols (2) . Electronic mail: SMTP, POP3, IMAP			

	. DNS			
4	Week 4: Socket Programming			
5	Week 5: Transport Layer (1) . Connectionless Transport: UDP . Reliable data transfer: ARQ protocols			
6	Week 6: Transport Layer (2) . Connection-oriented Transport: TCP . TCP congestion control . Wireless TCP			
7	Week 7: Network Layer (1) . Virtual circuit and datagram networks . Internet Protocols: IPv4, DHCP, ICMP, IPv6			
8	Week 8: (Mid-term Exam.)			
9	Week 9: Network Layer (2) . Routing algorithms: link-state vs. distance vector . Internet routing protocols: RIP, OSPF, BGP . Multicast routing			
10	Week 10: Link Layer (1) . Error detection techniques . Multiple access protocols: ALOHA, CSMA, CSMA/CD, Token passing			
11	Week 11: Link Layer (2) . Ethernet . Ethernet switch			
12	Week 12: Wireless Networks . Wireless LANs: IEEE 802.11(WiFi), Bluetooth . Cellular Internet access			
13	Week 13: Mobility Management . Mobile IP . Mobility Management in cellular networks			
14	Week 14: Wireless Ad Hoc Networks . Applications of ad hoc networks . Ad hoc routing protocols: AODV, DSR, OLSR etc.			
15	Week 15: (Final Exam.)			

수험부정행위시, 경북대학교 수험부정행위에 관한 처벌규정에 의거 그 정상에 따라 수험자격 박탈, 근신, 유기·무기정확, 또는 제적 처분될 수 있으니, 각별히 유의하여 주시기 바랍니다.

