

Course No.	430.752B	Lecture No.	001	Course Title (Subtitle)	Wireless Networking	Credit	3	
Representative Instructor	Name	Kyunghan Lee (post : Assoc. Proessor. )		Homepage	https://nxc.snu.ac.kr			
	E-mail	kyunghanlee@snu.ac.kr		Phone No.	-			
	Interview Time/Place : Tue/Thu (11:00 - 12:00), 301/1006							
Prerequisite								
* 1.Purpose of Course	In this course, we will learn and discuss various wireless and mobile networking topics over popular wireless access network standards including 802.11 (WLAN), LTE, and 5G. Such topics will cover conventional approaches as well as state-of-the-art approaches related to major technical issues characterizing the capability and the efficiency of link layer, network layer, and transport layer protocols for wireless and mobile networking.							
* 2.Materials and Reference	We will mainly use presentation slides and recent research papers for the lectures. Reference * Stefania Sesia, Issam Toufik, Matthew Baker, LTE, The UMTS Long Term Evolution: From Theory to Practice, Second Edition, Wiley, 2011. * James F. Kurose & Keith W. Ross, Computer Networking, 7th Ed., Pearson, 2016.							
* 3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	5	35	0	40	20	0	0	100
	Attendance Policy : Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)							
Remark of Others :								
* 4.Lecture Plan	1주. Part I. Preliminaries: Introduction to wireless/mobile networking 1/2 2주. Part I. Preliminaries: Introduction to wireless/mobile networkin 2/2 3주. Part I. Preliminaries: Performance measures and application performance 4주. Part I. Preliminaries: Wireless access channels 1/2 5주. Part I. Preliminaries: Wireless access channels 2/2 6주. Part I. Preliminaries: Technical issues in wireless networking 1/3 7주. Part I. Preliminaries: Technical issues in wireless networking 2/3 8주. Part I. Preliminaries: Technical issues in wireless networking 3/3 9주. Part II. IEEE 802.11 WLANs: Introduction to WiFi networks 10주. Part II. IEEE 802.11 WLANs: PHY and MAC protocols 11주. Part II. IEEE 802.11 WLANs: WiFi Evolutions 1/2 12주. Part II. IEEE 802.11 WLANs: WiFi Evolutions 2/2 13주. Part III. 3GPP LTE/5G networks: Introduction to LTE/5G 14주. Part III. 3GPP LTE/5G networks: PHY Layer 15주. Part III. 3GPP LTE/5G networks: MAC Layer 16주. Part IV. Bluetooth/WPAN * The planned contents may vary in order to reflect the most recent research trends.							
5.References to Course Registration	This course is taught in English. Tasks, quizzes, and evaluations may include paper review, presentation, and writing.							
6. Support Services for Students with Disabilities  ※ You can modify these default contents.	For Lectures	<input type="radio"/> Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants <input type="radio"/> Health Impairment: Excuse absence due to health problems, Allow note takers						
	For Assignments & Evaluations							
	Others	Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can Support Center for Students with Disabilities (02-880-8787).						

◇ fields with \* : required fields

◇ If you don't release the syllabus, you may have some disadvantages.

교과목번호	430.752B	강좌번호	001	교과목명 (부제명)	Wireless Networking (무선 네트워크)	학점	3	
담당교수	성명	이경한 (직 : 부교수 )		Homepage	https://nxc.snu.ac.kr			
	E-mail	kyunghanlee@snu.ac.kr		전화번호	-			
	면담시간/장소 : 화/목 (11:00 - 12:00), 301/1006							
선이수교과목								
* 1. 수업목표	In this course, we will learn and discuss various wireless and mobile networking topics over popular wireless access network standards including 802.11 (WLAN), LTE, and 5G. Such topics will cover conventional approaches as well as state-of-the-art approaches related to major technical issues characterizing the capability and the efficiency of link layer, network layer, and transport layer protocols for wireless and mobile networking.							
* 2. 교재 및 참고문헌	<p>We will mainly use presentation slides and recent research papers for the lectures.</p> <p>Reference</p> <p>* Stefania Sesia, Issam Toufik, Matthew Baker, LTE, The UMTS Long Term Evolution: From Theory to Practice, Second Edition, Wiley, 2011.</p> <p>* James F. Kurose &amp; Keith W. Ross, Computer Networking, 7th Ed., Pearson, 2016.</p>							
* 3. 평가방법	출석	과제	중간	기말	수시평가	태도	기타	합계
	5	35	0	40	20	0	0	100
	출석 규정 : 수업일수의 1/3을 초과하여 결석하면 성적은 "F" 또는 "U"가 됨 (담당교수가 불가피한 결석으로 인정하는 경우는 예외로 할 수 있음)							
기타의 비고 :								
* 4. 강의계획	<p>1주. Part I. Preliminaries: Introduction to wireless/mobile networking 1/2</p> <p>2주. Part I. Preliminaries: Introduction to wireless/mobile networkin 2/2</p> <p>3주. Part I. Preliminaries: Performance measures and application performance</p> <p>4주. Part I. Preliminaries: Wireless access channels 1/2</p> <p>5주. Part I. Preliminaries: Wireless access channels 2/2</p> <p>6주. Part I. Preliminaries: Technical issues in wireless networking 1/3</p> <p>7주. Part I. Preliminaries: Technical issues in wireless networking 2/3</p> <p>8주. Part I. Preliminaries: Technical issues in wireless networking 3/3</p> <p>9주. Part II. IEEE 802.11 WLANs: Introduction to WiFi networks</p> <p>10주. Part II. IEEE 802.11 WLANs: PHY and MAC protocols</p> <p>11주. Part II. IEEE 802.11 WLANs: WiFi Evolutions 1/2</p> <p>12주. Part II. IEEE 802.11 WLANs: WiFi Evolutions 2/2</p> <p>13주. Part III. 3GPP LTE/5G networks: Introduction to LTE/5G</p> <p>14주. Part III. 3GPP LTE/5G networks: PHY Layer</p> <p>15주. Part III. 3GPP LTE/5G networks: MAC Layer</p> <p>16주. Part IV. Bluetooth/WPAN</p> <p>* The planned contents may vary in order to reflect the most recent research trends.</p>							
5. 수강생 참고사항	<p>This course is taught in English.</p> <p>Tasks, quizzes, and evaluations may include paper review, presentation, and writing.</p>							
6. 장애학생 지원사항	강의수강 관련	<ul style="list-style-type: none"> <li>○ 지체장애: 교재 제작(디지털교재), 대필도우미 및 수업보조 도우미 허용</li> <li>○ 건강장애: 질병 등으로 인한 결석에 대한 출석 인정, 대필도우미 허용</li> </ul>						
	과제 및 평가 관련							
	* 기본 내용 수정 가능	비고	본 강의를 수강하는 장애학생들에게는 이상의 지원 서비스 이외에도 장애학생 개인의 특성과 요구에 따라, 지도교수 및 장애학생지원센터와의 상담을 통하여 적절한 수준의 지원 서비스를 제공합니다. 장애학생에 대한 지원서비스와 관련하여 문의사항이 있는 학생들은 장애학생지원센터(02-880-8787)로 문의바랍니다.					

◇ \* 은 필수 입력 항목으로 반드시 입력.

◇ 강의계획서 미입력시 출석부 출력 제한, 계속강의 미승인 등 불이익 발생