Course No.	M1522.00	2600	Lecture No.	001	Course Title	Advanced	Mobile Com	puting	Credit	3	
Representative Instructor	Name	Yo	ungki Lee	(post:)		Homepag	e	N/A			
	E-mail		young	kilee@snu.ac	:.kr	Phone No	Phone No. 02-880-1726				
	Interview Time/Place : Thursday 16:45-18:00										
Prerequisite Course	N/A										
	Computing services are penetrating every facet of people's lives and various industry										
	sectors, enabled by advances in consumer devices such as smartphones, wearables.										
	IoT devices, AR/VR devices along with cloud and edge computing services. This is										
	quickly making Mark Weiser's vision of ubiquitous computing into reality. Mobile										
	computing systems can be considered as the first step towards ubiquitous computing,										
	which is significantly different from conventional computing systems. They require										
	highly coordinated operations of heterogeneous sensor devices for continuous										
	monitoring of users and surroundings, multi-staged distributed systems to process										
Course	deep/big sensor data, automated actuators based on uncertain inference results.										
	Furthermore, it is essential to design highly personalized and adaptive system										
	interfaces considering the diversity of users and their situations. In this course,										
	students are expected to learn, apply, and improve core technologies to design and										
	develop mobile computing technologies successfully. The topics will include software										
	systems for smartphones and IoT/wearable/VR/AR devices, machine learning pipelines										
	to extract insights from noisy sensing data, distributed system architecture for efficient										
	mobile computing services, innovative interface and application design, etc.										
* 2.Materials and Reference	Lecture notes and papers (The paper list is to be announced in the Week1 class)										
* 3.Evaluation Method	Attendand	ce	Project	Medium	Final	Paper reading & Presentation & Discussion	Attitude	Othe	er	Total	
			40	0	40	20	0		0	100	
	Attendance Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. Policy: (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)										
	Remark of Others :										

	Lecture Plan should be entered in the form of the week plan. (from the 1st week to at least the 15th week)								
* 4.Lecture Plan	Week		Lecture Topic						
	1		Class Intro & Intro to Mobile Computing						
	2		Human Behaviour and Context Sensing/Analytics: Activities						
	3		Human Behaviour and Context Sensing/Analytics: Activities						
	4		Project Proposal and Feedback						
	5		Human Behaviour and Context Sensing/Analytics: Locations						
	6		Human Behaviour and Context Sensing/Analytics: Locations						
	7		Human Behaviour and Context Sensing/Analytics:						
			Emotions and Health						
	8		Human Behaviour and Context Sensing/Analytics:						
	0		Emotions and Health						
	9		Talks on Special Topics						
	10		Project Review and Demonstration of Initial Prototype						
	11		Mobile and Embedded Machine Learning: Basics						
	12		Mobile and Embedded Machine Learning: Power						
	13		Mobile and Embedded Machine Learning: Cloud and Edge						
	14		Mobile and Embedded Machine Learning:						
	17		Privacy and Other Issues						
	15		Project Final Presentation and Demo						
5.References to Course Registration									
6. Support Services for Students with Disabilities X You can modify these default contents.	For Lectures	Allow note taker Physical Disabilit Hearing Impairm Health Impairme Learning Disabili	ty: Make textbooks (digital textbook), Allow note takers and assistants nent: Allow note takers and translators, Allow lecture recording ent: Excuse absence due to health problems, Allow note takers ity: Allow note takers						
	For Assignments & Evaluations	Disability: Extend method, Extend	bility / Autism Spectrum Disorder: Allow note takers and mentors ent / Physical Disability / Hearing Impairment / Health Impairment / Learning d assignment deadlines, Offer alternate assignment submission and response testing period, Offer alternate testing method, Offer different testing room ability / Autism Spectrum Disorder: Offer individualized assignments and leations						
	Others	Students who take t listed above depend with professors and concerning support	his course can get appropriate level of support service including the support ing on the students' individual characteristics and needs through consultation the Support Center for Students with Disabilities. If you have any questions service for students with disabilities you can contact Professor *** port Center for Students with Disabilities (02-880-8787).						

 [♦] fields with * : required fields
 ♦ If you don't release the syllabus, you may have some disadvantages.