

Course No.	457.205	Lecture No.	001	Course Title (Subtitle)	Spatial Informatics and Systems	Credit	3	
Representative Instructor	Name	Yongil Kim (post :)		Homepage				
	E-mail	yik@snu.ac.kr		Phone No.	02-880-7364			
	Interview Time/Place : After class or e-mail							
Prerequisite Course								
* 1.Purpose of Course	<ul style="list-style-type: none"> · Learn basic concepts and methodologies of engineering surveying including measurement and observations, triangulation and trilateration surveying methods, and least squares adjustment. · Learn basic characteristics of various spatial information data and their respective applications. · Learn basic concepts of satellite remote sensing, digital mapping, GIS, and GPS to study the potential of applying geospatial data for applications in fields such as construction, transportation, urban planning and design, and monitoring of the environment. · Learn to operate various surveying equipment through outdoor practical exercises to perform leveling, orientation, distance measurements using modern electronic surveying equipment. 							
* 2.Materials and Reference	<p>주현승, 지오인포매틱스, 한국학술정보, 개혁신판 (개정 3판), 2017.</p> <p>조규전, 측량정보공학, 개정 4판, 양서각, 2017.</p> <p>Ghilani, C. D., and Wolf, P. R., <i>Elementary Surveying – An Introduction to Geomatics</i>, 13th Edition, Prentice Hall, 2011.</p>							
* 3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	10	30	30	30	0	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	Week	Date	Contents	Material
	1	3/17	General Theory of Spatial Informatics	Ch. 1
	3/19			
	2	3/24	Geospatial Revolution	-
	3/26			
	3	3/31	Standards of Spatial Informatics	Ch. 2
		4/2	Interpretation of Errors and Measurements	Ch. 3
	4	4/7	[Practice] Theory of Errors in Observations	-
		4/9	Observation Equations	Ch. 4
	5	4/14	Horizontal and Vertical Positioning	Ch. 5
		4/16	Levelling	Ch. 6
	6	4/21	Advanced Surveying (1)	Ch. 11
		4/23	Advanced Surveying (2)	
	7	4/28	Midterm Exam	-
		4/30	Buddha's Birthday	-
	8	5/5	Children's Day	-
		5/7	-	-
	9	5/12	Introduction to Photogrammetry	Ch. 7
		5/14	Introduction to Photogrammetry	
	10	5/19	Introduction to Photogrammetry	
	5/21	LiDAR	Ch. 10	
11	5/26	GIS	Ch. 12	
	5/28	GIS		
12	6/2	GNSS [Practice] Handling Surveying Data (Intro)	Ch. 9	
	6/4	GNSS		
13	6/9	GNSS		
	6/11	Final Exam	-	
14	6/16	Introduction to Remote Sensing	Ch. 8	
	6/18	[Practice] Deadline for Practical Assignment	-	
5.References to Course Registration				

6. Support Services for Students with Disabilities ※ You can modify these default contents.	For Lectures	<input type="radio"/> Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers <input type="radio"/> Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants <input type="radio"/> Hearing Impairment: Allow note takers and translators, Allow lecture recording <input type="radio"/> Health Impairment: Excuse absence due to health problems, Allow note takers <input type="radio"/> Learning Disability: Allow note takers <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors
	For Assignments & Evaluations	<input type="radio"/> Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative 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 contact Professor *** (02-880-****) or 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.