

Course Schedule Semester 1

Week	Date	Time	Subject/Description	Lecturer
87852061 Remote Sensing (Monday)				
1	August 6, 2018	08.00-11.50 AM	Orientation Course requirements, grading, tests, assignments, remote sensing software	Pattama Phodee, Ph.D.
2	August 13, 2018		Remote Sensing Basics History, modern-day scope of remote sensing	Pattama Phodee, Ph.D.
3	August 20, 2018		Remote Sensing Characteristics and Data Structure	Tanita Suepa, Ph.D.
4	August 29, 2018		Characteristics of EMR, Reflectance properties of surfaces, spectral reflectance of vegetation, soil and water	Pattama Phodee, Ph.D.
5	September 3, 2018		Digital Remote Sensors and Planforms: Multispectral, Thermal, Microwave Remote Sensing system, Lidar, Aerial image	Pakorn Petchprayoon, Ph.D.
6	September 10, 2018		Visual Interpretation part I	Pattama Phodee, Ph.D.
7	September 17, 2018		Visual Interpretation part II	Pattama Phodee, Ph.D.
8	September 24, 2018		Digital image processing part I, Data preparation, radiometric and geometric correction	Pakorn Petchprayoon, Ph.D.
9	October 1 - 7, 2018			Mid-term examination

Week	Date	Time	Subject/Description	Lecturer
10	October 8, 2018		Excursions	Pattama Phodee, Ph.D.
11	October 22, 2018		Digital image processing part II, Image enhancement	Tanita Suepa, Ph.D.
12	October 29, 2018		Digital image processing part III, Image classification	Khruewan Champangern, Ph.D.
13	November 5, 2018		Digital image processing part IV, Interpreting Remote Sensing data and accuracy assessment	Khruewan Champangern, Ph.D.
14	November 12, 2018		Remote Sensing Application part I Agriculture, Forestry, Environment and Future trends	Tanita Suepa, Ph.D.
15	November 19, 2018		Remote Sensing Applications part II Oceanography, Disaster, Urban Infrastructure etc.	Pattama Phodee, Ph.D.
16	November 26, 2018		Final Project idea and Present	Pattama Phodee, Ph.D.
17	December 3 - 9, 2018			Final Examination

สัปดาห์	วันที่สอน	เวลา	หัวข้อ/รายวิชา	ชื่อผู้สอน
87852161 Application of Geographic Information System (Monday)				
1	August 6, 2018	13.00-16.50 PM	Fundamentals of GIS	Kitsanai Charoenjit, Ph.D.
2	August 13, 2018		Data Manipulation with GIS	Kitsanai Charoenjit, Ph.D.
3	August 20, 2018		Spatial Analysis	Kitsanai Charoenjit, Ph.D.
4	August 29, 2018		Intelligent Web Maps and GIS online	Kitsanai Charoenjit, Ph.D.
5	September 3, 2018		GIS Application System Design Applied to Natural Resources Management	Kitsanai Charoenjit, Ph.D.
6	September 10, 2018		Applications Project	Kitsanai Charoenjit, Ph.D.
7	September 24, 2018		Imagery, Automation, and Application	Mr.Sukrit Skawsang
8	October 1 - 7, 2018		Mid-term examination: Geospatial Analysis project	Kitsanai Charoenjit, Ph.D.
9	October 8, 2018		Excursions	Kitsanai Charoenjit, Ph.D.
10	October 22, 2018		Data Entry and Data output: Inputting Data into GIS	Chanika Sukawattanavijit, Ph.D.
11	October 29, 2018		Geospatial and Environment Analysis	Chanika Sukawattanavijit, Ph.D.

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12	November 5, 2018		Geo-Visualization and Map Production	Chanika Sukawattanavijit, Ph.D.
13	November 7, 2018		1. GIS Application System Design Applied to Land Use Change 2. GIS Application System Design Applied to Land Use Change	Mr.Yootthapoom Potiracha
14	December 3 - 9, 2018		Final Examination	Kitsanai Charoenjit, Ph.D.

สัปดาห์	วันที่สอน	เวลา	หัวข้อ/รายวิชา	ชื่อผู้สอน
87852261 Global Navigation Satellite System (Tuesday)				
1	August 7, 2018	08.00-11.50 AM	The basic principles of Global Navigation Satellite System	Noppakun Boongrapue, Ph.D.
2	August 14, 2018		GNSS Satellite Data Processing	Kitsanai Charoenjit, Ph.D.
3	August 21, 2018		GNSS level estimation	Kitsanai Charoenjit, Ph.D.
4	August 28, 2018		Practice: Using a GNSS Receiver in a Smartphone	Kitsanai Charoenjit, Ph.D.
5	September 4, 2018		GNSS coordinates of Thailand	Didsaphan Naksen, Ph.D.
6	September 11, 2018		GNSS Satellite Navigation and data Format	Didsaphan Naksen, Ph.D.
7	September 26, 2018		1. Error Analysis in GNSS receivers 2. GNSS Measurements and Error Sources	Didsaphan Naksen, Ph.D.
8	October 1 - 7, 2018		Mid-term examination	Kitsanai Charoenjit, Ph.D.
9	October 8, 2018		Excursions	Kitsanai Charoenjit, Ph.D.
10	November 21-22, 2018		1. Practice: Field Surveying with Fast static Method 2. Practice: Field Surveying with NRTK method	Anusorn Rangsanpanich, Ph.D.

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			3. Practice: GNSS Processing with Open Source Software	
11	December 3 - 9, 2018		Final Examination	Kitsanai Charoenjit, Ph.D.

สัปดาห์	วันที่สอน	เวลา	หัวข้อ/รายวิชา	ชื่อผู้สอน
87853361 Advanced Physical Geography (Tuesday)				
1	August 7, 2018	13.00-15.50 PM	Orientation Course requirements, grading, tests, assignments Our solar System	Phattraporn Soytong, Ph.D.
2	August 14, 2018		The Nature of Physical Geography and Earth's Four Spheres	Phattraporn Soytong, Ph.D.
3	August 21, 2018		Earth's Global Energy Balance, Net Radiation, Latent Heat and Sensible Heat Transfer	Pakorn Petchprayoon, Ph.D.
4	August 28, 2018		Hydrosphere, Water Resources, Stream and Flooding	Anukul Buranapratheprat, Ph.D.
5	September 4, 2018		Hydrosphere, Coasts and Changing Sea Levels	Anukul Buranapratheprat, Ph.D.
6	September 11, 2018		Lithosphere, Plate Tectonics, Volcanos, Deformation and Earthquakes	Phattraporn Soytong, Ph.D.
7	September 18, 2018		Biosphere, Forest, Agriculture, Biometeorology	Phattraporn Soytong, Ph.D.
8	September 25, 2018		Atmosphere, Atmospheric profile, Weather and Climate	Pakorn Petchprayoon, Ph.D.
9	October 1 - 7, 2018		Mid-term Examination	Phattraporn Soytong, Ph.D.
10	October 8, 2018		Excursions, Field Works	Phattraporn Soytong, Ph.D.
11	October 23, 2018		Cryosphere, Snow and Ice	Anukul Buranapratheprat, Ph.D.

สัปดาห์	วันที่สอน	เวลา	หัวข้อ/รายวิชา	ชื่อผู้สอน
12	October 30, 2018		Climate Change and Earth's Four Spheres	Pakorn Petchprayoon, Ph.D.
13	November 6, 2018		1. Atmospheric-Water-Interactions 2. Atmospheric-Land-Interactions	Pakorn Petchprayoon, Ph.D.
14	November 13, 2018		Atmospheric-Ocean-Cryosphere-Interactions	Anukul Buranapratheprat, Ph.D.
15	November 20, 2018		Investigation and Summary	Phattraporn Soyong, Ph.D.
16	November 21, 2018		Research paper / Assignments	Phattraporn Soyong, Ph.D.
17	December 3 - 9, 2018		Final Examination	Phattraporn Soyong, Ph.D.