

Course	Course Name	Location and Spatial Analysis
	Course Code	DK184404
	Credit	3
	Semester	IV

Description of Course

Location and Spatial Analysis courses are delivered in the 4th semester. The students are required to be able to explain several definitions about theory and concept of location in some activities, able to use various techniques and methods to assess the tendency of activities location, and able to consider location and spatial aspect in formulating urban and regional regulation.

Learning Outcomes

Knowledge	<ol style="list-style-type: none"> 1. Mastering the theoretical concept of urban and regional planning in the aspects of urban studies, regional studies, spatial science, data science & computer application, socio-political, environmental management, built environment design, infrastructure and transportation system, coastal studies, management, economics. 2. Mastering the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques. 3. Mastering the methods of spatial/aspatial planning in decision-making.
Specific Skill	<ol style="list-style-type: none"> 1. Able to compile the planning concept and direction of the plan through the study of strategic issues in the context of urban, regional, and coastal planning problems with understanding through observation and utilization of the data of physical/spatial, social, economic and environmental. 2. Able to utilize ICT in the management of data to produce information that is easily

	<p>understood by the public and the decision makers.</p> <ol style="list-style-type: none"> 3. Able to describe the spatial characteristics of urban, regional and coastal area through the linkage analyze of spatial and aspatial aspects so that provide the information as the basis for drawing up planning model 4. Able to compile an alternative spatial model through a qualitative and quantitative approach in the form of scenarios setting the pattern of space and structure of urban, regional, and coastal area as well as propose the appropriate solutions
General Skill	<ol style="list-style-type: none"> 1. Able to apply logical, critical, systematic, and innovative thinking in the context of development or implementation of science and technology by considering and applying the suitable value of humanities in accordance with their expertise 2. Able to take an appropriate decision in the context of problems solving in the field of their expertise based on the results of the information and data analyze
Attitude	-
Course Learning Outcomes	
Knowledge	Students are able to explain basic principles and concepts of spatial aspect in determining activities.
Specific Skill	<ol style="list-style-type: none"> 1. Students are able to explain the definition of location theory and its position in urban and regional planning 2. Students are able to analyze location of several city and regional activities components such as housing, government, industry, commercial, social and economy facilities.
General Skill	<ol style="list-style-type: none"> 1. Students are able to analyze the spatial interaction, the attraction between each activity location in urban and regional scale. 2. Students are able to implement the accurate analysis techniques to assess location and

	<p>spatial aspect in urban and regional activity components.</p> <ol style="list-style-type: none"> 3. Students are able to formulate the location decision making accurately based on the study case. 4. Students are able to communicate the concept of location selection through visual, verbal, and written based on ICT .
Main Subject Learning Outcomes	
<ol style="list-style-type: none"> 1. Student are able to explain the definitions of location theory and its position in urban and regional planning 2. Students are able to explain classic location theory as the basis development of the latest location analysis approach. 3. Students are able to explain the approaches in location analysis of several urban and regional activities components such as housing, government, industry, commercial, social and economy facilities. 4. Students are able to implement the accurate analysis techniques to assess location and spatial aspect in urban and regional activity components. 	
Main Subject	
<ol style="list-style-type: none"> 1. Location Definition and Its Implications, the scope of location and spatial analysis 2. Basic factors in determining location, problems in determining location 3. Classic location theory of Von Thunen, Weber, Losch, Christaller, Hotelling. 4. Basic Location Analysis of industrial, commercial, and general facility services activity. 	
Prerequisite	
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References	
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