

Course	Course Name	Planning Analysis Method (PAM)
	Course Code	DK184306
	Credit	3
	Semester	III

Description of Course	
<p>Urban and regional planning require scientific analysis methods to ensure the quality of the output of the planning and decision making processes. Therefore, students are required to have a theoretical knowledge and practical skills to be able to implement a particular method to answer a corresponding planning problem. This course consists of two main themes, the Quantitative Analysis Techniques and the Qualitative Analysis Techniques, both equally important to analyze data to produce information and decision in urban and planning process.</p>	
Learning Outcomes	
Knowledge	<p>1.2 Mastering the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques.</p> <p>1.3 Mastering the methods of spatial planning/aspatial in decision making.</p>
Specific Skill	<p>2.1 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.</p> <p>2.2 Able to utilize ICT in the management of data to produce information that is easily understood by the public and the decision makers.</p> <p>2.3 Able to describe the spatial characteristics of urban, regional and coastal area through the linkage analyze of spatial and aspatial aspects</p>

	<p>so that provide the information as the basis for drawing up planning model</p> <p>2.4 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</p>
<p>Course Learning Outcomes</p>	
<ol style="list-style-type: none"> 1. Data collecting technique (survey) for qualitative data 2. Data analysis using various types of regression techniques 3. Variable linkage analysis 4. Decision making optimization 5. Data analysis using various type of qualitative analysis techniques 	
<p>Main Subject</p>	
<ol style="list-style-type: none"> 1. Survey technique/ collecting qualitative data 2. Linear regression 3. Non-linear regression 4. Logistic regression 5. Cluster analysis 6. MDS analysis 7. Linear programming 8. Content analysis 9. SWOT/PEST 10. DELPHI 11. Important Performance Analysis 12. AHP 13. Validation Technique 	
<p>Prerequisite</p>	
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<p>References</p>	
<ol style="list-style-type: none"> 1. Dillon, WR & Goldstein M., Multivariate Analysis: Methods and Application, John Willey & Sons, New York, 1984 2. French, S., Decision Theory: An Introduction to Mathematics of Rationality, Ellis Horwood Ltd., Chichester, 1988 3. Hiller, F.S. & Lieberman, C.J., Operation Research, Holden-Day Inc., San Francisco, 1986 	

4. Field, B. & B. Mc.Gregor, Forecasting Techniques for Urban and Regional Planning, UCL Press, London, 1987
5. Kachigan, Sam Kash, Statistical Analysis: An Interdisciplinary Introduction to Univariate&Multivariate Methods, Radius Press, New York, 1986
6. Makridakis, Spyros, et al., Metode dan Aplikasi Peramalan, Alih Bahasa Edisi Kedua, Erlangga, Jakarta, 1999