

CP234101 - Planning Statistics

Module Name	Statistics of Planning
Module level, if applicable	Basic BoURP
Code, if applicable	CP234101
Subtitle, if applicable	-
Course, if applicable	Planning Statistics
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module	Ketut Dewi Martha Erli Handayeni
Lecturer	Hertiari Idajati Fendy Firmansyah Ketut Dewi Martha Erli Ummi Fadlilah K. Cahyono Susetyo Anoraga Jatayu
Language	Indonesian, English
Relation to curriculum	Compulsory Courses for undergraduate program in Urban and Regional Planning
Type of teaching, contact hours	M1: Group discussion 2.5 hours x 14 weeks = 35 hours
Workload	Regular (3 SKS) Class: 2.5 hours x 14 weeks = 35 hours Structured activities: 4 hours x 14 weeks = 56 hours Independent Study: 3 hours x 14 weeks = 42 hours Exam: 1.5 hours x 4 time = 6 hours Total = 133 hours
Credit points	3 SKS ~ 4.8 ECTS
Requirements according to the examination regulations	Registered in this course Minimum 80% attendance in this course
Recommended prerequisites	-
Module objectives/intended learning outcomes	General knowledge: 1. Able to understand non-spatial planning methods in making decisions in the field of urban and regional planning. 2. Able to understand the techniques and processes of urban and regional planning quantitatively, and spatial modeling (geographical information

	<p>systems) and presentation techniques.</p> <p>Specific knowledge:</p> <ol style="list-style-type: none"> 1. Students are able to understand the concept of descriptive statistics in case studies related to regional/city planning 2. Students were able to understand the concept of data measurement scale, the concept of probability, and the type of distribution in case studies related to regional and municipal planning 3. Students are able to understand the concepts of population, sample, sampling techniques in regional/city planning case studies 4. Students were able to understand the concept of statistical inference techniques as well as the analysis of correlations and covariates in the case study of regional/city planning 															
Content	<ol style="list-style-type: none"> 1. Introduction to statistics for planning 2. Data Scale and Measurement 3. Descriptive statistics 4. Basic concepts of probability and probability for district and continuous variables 5. The concepts of probability distribution, normal distribution, and continuous distribution 6. Population, sample, and sampling technique 7. Types of probabilistic and non-probabilistic sampling techniques 8. Statistical concepts of inference and parameter estimation (point estimation and interval estimation) 9. The concept of testing the hypothesis of two samples / dependent and independent populations 10. Correlation analysis techniques (Pearson, Spearman, Wilcoxon, Tau-b Kendall) 11. Covariance techniques (one way, two way ANOVA, MANOVA) 															
Study and examination requirements and forms of examination	<p>4 assessments:</p> <table border="1" data-bbox="710 1518 1275 1742"> <thead> <tr> <th>Evaluation</th> <th>Method</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Descriptive Statistics Task</td> <td>20%</td> </tr> <tr> <td>2</td> <td>Quiz 1</td> <td>30%</td> </tr> <tr> <td>3</td> <td>Quiz 2</td> <td>30%</td> </tr> <tr> <td>4</td> <td>Mini Research</td> <td>20%</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 1. <i>Descriptive Statistics Task – week 3</i> 2. <i>Quiz 1– week 7</i> 3. <i>Quiz 2 – week 14</i> 4. <i>Mini Research – week 16</i> 	Evaluation	Method	Weight	1	Descriptive Statistics Task	20%	2	Quiz 1	30%	3	Quiz 2	30%	4	Mini Research	20%
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1	Descriptive Statistics Task	20%														
2	Quiz 1	30%														
3	Quiz 2	30%														
4	Mini Research	20%														
Media employed	<p>Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom.</p>															

Reading list	<p>Main reference:</p> <ol style="list-style-type: none"><li data-bbox="710 235 1364 336">1. Rose, J & Beck, M., Basic Quantitative Analysis for Management. Compiled from Basic Business Statistics. The University of Sydney. Sydney, 2007.<li data-bbox="710 347 1364 448">2. Dillon, WR & Goldstein M., Multivariate Analysis: Methods and Application, John Willey & Sons, New York, 1984<li data-bbox="710 459 1364 582">3. Kachigan, Sam Kash, Statistical Analysis: An Interdisciplinary Introduction to Univariate&Multivariate Methods, Radius Press, New York, 1986<li data-bbox="710 593 1364 656">4. Walpole, E.Ronald. 1995. Pengantar Statistika Edisi Ke-3. Jakarta: Gramedia Pustaka Utama
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