Course	**Course Name**	Statistics Planning
	Course Code	DK184102
	Credit	3
	Semester	1

Description of Course	
Statistics planning is an odd semester course taken by students in first semester. This course examines the concepts of data and data measurement, data presentation techniques, descriptive statistical concepts, principles and application of probabilities, the basic concepts of population and samples, concepts and application of inference statistics, hypothesis testing concepts and applications, and bivariate analysis.	
Learning Outcomes	
Knowledge	1.2 Mastering the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques.
Skill	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.
Course Learning Outcomes	
Knowledge	Able to master the technique of data analysis approach in the field of regional / urban planning issues
Skill	1. Able to process data using data presentation techniques 2. Able to apply the concept of descriptive statistics in case studies related to regional / urban planning 3. Able to apply the concept of probability and various types of statistical distribution in case study of regional / urban planning 4. Able to apply basic concept of population, data, sample, and sampling technique in case study

	of regional planning / urban 5. Able to apply the concept of inference statistics and estimation techniques in case studies of regional / urban planning 6. Able to apply the concept of hypothesis testing in case study of regional planning / urban 7. Able to apply correlation and covariance concepts in case study of regional / urban planning 8. Able to communicate small, visual, verbal and written research based on ICT.
General Skill	

Module Learning Outcomes

1. Able to recognize data needs in case of regional / urban planning
2. Able to present and explain data in an informative and effective manner
3. Able to perform descriptive statistical analysis of centralization and dissemination of data, variance, and standard deviation
4. Able to calculate probability of an event through probability concept approach
5. Able to calculate data distribution with various approaches of data distribution type
6. Able to determine the scale of data measurement
7. Able to conduct surveys
8. Able to calculate the research sample
9. Able to calculate sample data parameters through interval and point estimation techniques
10. Able to calculate sample data parameters through hypothesis test
11. Able to calculate correlation and covariance value in research or case study of regional planning / urban

Main Subject

1. Data and data measurement scale
2. Data presentation techniques.
3. Descriptive statistics.
4. The concept of probability.
5. Normal distribution and other distribution
6. Population, sample, and sampling technique
7. Inference and parameter estimation (dots and intervals).

8. The concept of hypothesis testing; testing one population hypothesis and hypothesis testing two populations
9. Correlation and covariance analysis

Prerequisite

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References

1. Rose, J & Beck, M., Basic Quantitative Analysis for Management. Compiled from Basic Business Statistics. The University of Sydney. Sydney, 2007.
2. Dillon, WR & Goldstein M., Multivariate Analysis: Methods and Application, John Willey & Sons, New York, 1984
3. Kachigan, Sam Kash, Statistical Analysis: An Interdisciplinary Introduction to Univariate&Multivariate Methods, Radius Press, New York, 1986
4. Walpole, E.Ronald. 1995. Pengantar Statistika Edisi Ke-3. Jakarta: Gramedia Pustaka Utama