## PL4021 Urban and Regional Modeling

Module designation	Urban and Regional Modeling
Semester(s) in which the	7/8 <sup>th</sup> Semester (forth year of undergraduate program)
module is taught	
Person responsible for the	
module	
Language	Indonesian
Relation to curriculum	Elective Course
Teaching methods	Combination of lecture, small group discussion, case study, self-directed learning, and exercise
Workload (incl. contact hours,	(Estimated) Total workload: around 9 hours per week x 16 weeks
self-study hours)	= 144 hours
	<ul> <li>Face to face teaching: 42 hours (lecture)</li> </ul>
	<ul> <li>Structured activities: 24 hours (lecture) and 24 hours</li> </ul>
	<ul> <li>Independent study: 24 hours (lecture) and 24 hours</li> </ul>
	Exam: 6 hours
Credit points	3 CU/5 ECTS
Required and recommended	-
prerequisites for joining the	
module	
Module objectives/intended	Ability to serve as an interface for public aspirations, facilitating
learning outcomes	the connection between technical-analytical processes and
	political aspirations.
Content	This course consists of 2 (two) parts. The first part will discuss
	the concept of modeling, problem structuring in model,
	introduction to model formulation, model utilization and
	interpretation. Part two will be directed toward the introduction
	and application of model particularly on regional development
	moidel and budgeting programming model. This kind of model is expected to be able to provide interface role on public aspiration
	dimension, in order to facilitate technical-analytical process and
	politician aspirations
Examination forms	Mid Exam (30%), Final Exam (35%), Assignment (35%)
Study and examination	The Exam (5070), Final Exam (5570), Fishignment (5570)
requirements	
Reading list	1. Oppenheim, Norbert., Urban Travel Demand Modelling, ,
	John Wiley & Sons Inc, 1995
	2. Oppenheim, N, Applied Model in Urban & Regional Analysis, , Prentice-Hall Inc, 1981
	3. Makridakis, S (et.al), Forecasting: Methods and
	Applications, , John Willey & Son, 1983
	4. Law, Averill M. & W David Kelton., Simulation, Modelling,
	and Analysis, , Mc-Graw-Hill, 1991
	and Analysis, , two Staw Hill, 1991