

PL6125 Regional Modelling

Module designation	Regional Modelling
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module	Dr. Adiwan Aritenang Ir. Hadi Nurcahyo
Language	Indonesian
Relation to curriculum	Elective Course
Teaching methods	Case study, collaborative learning, practicum, tutorial
Workload (incl. contact hours, self- study hours)	
Credit points	4 CU/ 6.67 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Students are able to create various modeling applications that are effective in regional planning and can interpret existing data.
Content	This course teach geospatial and environmental, economic and spatial, and social network modelling.
Examination forms	Midterm Exam, Group Task and Presentation, Final Exam.
Study and examination requirements	Midterm Exam (30%) Group Task and Presentation (30%) Final Exam (40%)
Reading list	<p>Staniforth, A. (1997). "Regional modeling: A theoretical discussion". In Meteorology and Atmospheric Physics, 63(1), 15-29. https://link.springer.com/article/10.1007/BF01025361</p> <p>Resosudarmo, B. P., Yusuf, A. A., Hartono, D., & Nurdianto, D. A. (2011). "Regional Economic Modelling for Indonesia: Implementation of IRSA-INDONESIA5". Journal of Indonesian Economic and Business, 26(3), 287-309. https://journal.ugm.ac.id/jieb/article/download/6259/17868</p> <p>UNFCCC. (n.d.). "Regionalization Techniques and Regional Climate Modelling". https://unfccc.int/sites/default/files/regionalisation_techniques.pdf</p> <p>Staniforth, A. (1997). "Regional modeling: A theoretical discussion". Meteorology and Atmospheric Physics, 63(1), 15-29. https://link.springer.com/article/10.1007/BF01025361</p> <p>Resosudarmo, B. P., Yusuf, A. A., Hartono, D., & Nurdianto, D. A. (2011). "Regional Economic Modelling for Indonesia: Implementation of IRSA-INDONESIA5". Journal of Indonesian Economic and Business, 26(3), 287-309. https://journal.ugm.ac.id/jieb/article/download/6259/17868</p> <p>UNFCCC. (n.d.). "Regionalization Techniques and Regional Climate Modelling". https://unfccc.int/sites/default/files/regionalisation_techniques.pdf</p>