

MODULE HANDBOOK

SMART CITY					
Module/Course Title	Student Workload	Credits	Semester	Frequency	Duration
8720202221	2 CU X 16 X 170'= 90,6618	2 CU 3.18 ECTS	5 TH	ONCE YEAR	1 SEMESTER
1	Types of courses LECTURES PRACTICUM	Contact hours (2CU X 1,59 ECTS) X{(50:170')}X 28,51 Workhours= 26,64	Independent Study (2CU X 1,59 ECTS) X{(60:170')}X 28,51 Workhours= 31,96	Structured Study (2CU X 1,59 ECTS) X{(60:170')}X 28,51 Workhours= 31,96	Class size MAX 40 STUDENT
2	Prerequisites for participation (if applicable) None				
3	Program Learning outcomes				
	PLO-3 Able to process, analyze, present geosphere data and information using geospatial technology for geography learning and research.				
	PLO-6 able to make appropriate decisions in the context of solving problems in the field of geography and geography education, based on the results of analysis of information and data.				
	PLO-8 Able to formulate, process, analyze data, and present geosphere information both physical and human aspects by using geospatial technology for geography learning and research				
	PLO-12 Able to work together, has social sensitivity, high concern for society and the environment				
	Course Learning Outcome (CLO)				
	CLO-3 Able to process, analyze, present geosphere data and information of smart city in Indonesia using geospatial technology for geography learning and research.				

	<p>CLO-6 Able to understand and apply the concept of smart city development and success assessment, understand the challenges and strategies of smart city development in Indonesia</p>
	<p>CLO-8 Able to design and develop devices that support smart city development in Indonesia</p>
	<p>CLO-12 Able to cooperate and be responsible in the development of smart city supporting devices.</p>
4	<p>Learning materials</p> <ol style="list-style-type: none"> 1. Issues and problems of urban development today 2. Smart city development concept and model 3. Smart city development challenges and strategies 4. Smart city maturity level measurement based on GSCMM and SNI ISO 37122 models 5. Smart city model in several cities in Indonesia 6. Artificial intelligence concept 7. Internet/web-based information dissemination techniques 8. Development of IoT-based early warning applications
5	<p>Teaching methods <i>Project Base Learning, small discation, direct intruction</i></p>
6	<p>Assessment methods <i>paper test</i></p>
7	<p>This module/course is used in the following study programme/s as well -</p>
8	<p>Responsibility for module/course COMPULSORY/ELECTIVE*</p>
9	<p>Responsibility for module/course Other information</p> <ul style="list-style-type: none"> • Atmawidjaja dkk.2015.Kajian pengembangan Smart City di Indonesia. Dirjen Penataan Ruang Kementerian PU. • Hendro Kusumo.2020.Kematangan Kota Cerdas Berdasarkan SNI ISO 37122.Badan Standarisasi Nasional