

CP234106 – Planning Communication and Computation

Module Name	Presentation Planning Technique/Planning Computation
Module level, if applicable	Basic BoURP
Code, if applicable	CP234106
Subtitle, if applicable	-
Course, if applicable	Planning Communication and Computation
Semester(s) in which the module istaught	1 st Semester
Person responsible for the module	Hertiari Idajati
Lecturer	Rivan Aji Wahyu Dyan Syafitri
Language	Indonesian, English
Relation to curriculum	Compulsory Courses for undergraduate program in Urban and Regional Planning
Type of teaching, contact hours	M1: Grup discussion M2: Simulation M4: Collaborative learning M6: Project-based learning 2.83 hours x 14 weeks = 40 hours
Workload	Regular (4 SKS) Class: 2.83 hours x 14 weeks = 40 hours Structured activities: 6 hours x 14 weeks = 84 hours Independent Study: 2.83 hours x 14 weeks = 40 hours Exam: 5 hours x 4 weeks = 20 hours Total = 184 hours
Credit points	4 SKS ~ 6,4 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: <ol style="list-style-type: none"> 1. Able to understand spatial and non-spatial planning methods in decision making in the field of urban and regional planning 2. Able to understand techniques and processes of urban and regional planning qualitatively, quantitatively, and spatial modeling (geographical information systems) and presentation techniques Specific knowledge:

	<ol style="list-style-type: none"> 1. Students are able to apply effective and informative communication 2. Students are able to introduce themselves and planning products 3. Students are able to visualize planning products in the form of diagrams and graphs 4. Students are able to visualize product planning in the form of an online dashboard 5. Students are able to make presentation material for a planning product and make presentations 6. Students are able to apply GIS software (basic mapping) in making planning products 7. Students are able to manage planning databases using SQL (Structured Query Language) 8. Students are able to apply spatial data science using python in planning 9. Students are able to apply 3D model software in making planning products
<p>Content</p>	<ol style="list-style-type: none"> 1. Basic and practical Communication techniques in PWK (oral and written) 2. Basic and self-introduction techniques to practice to increase self-confidence and build a persona 3. Basic and supporting tools for multimedia visualization visual communication in product planning 4. Basic and supporting tools for graphic design media both offline and online in planning products 5. Descriptive and numeric data visualization practice using tableau/powerBI 6. The practice of creating a web-based dashboard visualization using tableau/powerBI 7. Basic planning and technical aspects in percentages (top down and bottom up planning) 8. Basic presentation techniques and practice 9. Basic mapping and map types 10. Introduction to coordinate systems, projections and datums 11. Practice creating and positioning spatial data in the form of vectors (points, polygons, polylines) using ArcGIS/QGIS 12. Basic filter analysis using Structure Query Language 13. Basic understanding of the conversion of descriptive and numerical data into spatial data 14. Filter analysis practice using SQL and attribute management (spatial join, join n relay) using VSCode/Jupyter Notebook/ArcGIS/QGIS 15. Understanding of overlay analysis on vector data 16. Practice overlay analysis on vector data (union, update, intersect, erase, dissolved) using ArcGIS/QGIS 17. Basic symbology settings according to cartographic rules (categorization, colors, icons, labels, legends, etc.) 18. Introduction to map layout elements (RTRW, RDTR,

	<p>RTBL, RZWP, Research Maps)</p> <ol style="list-style-type: none"> 19. Practice creating map layouts using symbology according to cartographic rules using ArcGIS/QGIS 20. Basic introduction to spatial data science 21. Basic spatial data science methods 22. Practice using functions and loops in Python using VSCode/Jupyter Notebook 23. Introduction to libraries in python 24. Practice reading spatial data using the library (geopandas) in Python using VSCode/Jupyter Notebook 25. Basic 3D modeling for planning 26. Basic introduction to the City Information Model 27. The practice of creating 3D urban design models and maps using SketchUp/Blender 28. Introduction to VR and AR 29. Practice rendering 3D urban models into images, animations and VR using Enscape 															
Study and examination requirements and forms of examination	<p>4 assessments:</p> <table border="1"> <thead> <tr> <th>Evaluation</th> <th>Method</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Simulation of Communication and Presentation Techniques</td> <td>20%</td> </tr> <tr> <td>2</td> <td>Practicum</td> <td>40%</td> </tr> <tr> <td>3</td> <td>Quiz</td> <td>15%</td> </tr> <tr> <td>4</td> <td>Planning Product Presentation</td> <td>25%</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 1. <i>Simulation of Communication and Presentation Techniques – week 6</i> 2. <i>Practicum – between week 3 and week 14</i> 3. <i>Quiz – week 15</i> 4. <i>Planning Product Presentation – week 16</i> 	Evaluation	Method	Weight	1	Simulation of Communication and Presentation Techniques	20%	2	Practicum	40%	3	Quiz	15%	4	Planning Product Presentation	25%
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1	Simulation of Communication and Presentation Techniques	20%														
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Media employed	Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom.															
Reading list	<p>Main reference:</p> <ol style="list-style-type: none"> 1. Fujishin, R. (2022). The art of communication: Improving your fundamental communication skills. Rowman & Littlefield 2. Miligan Joshua N. (2022). Learning Tableau 2022: Create effective data visualizations, build interactive visual analytics, and improve your data storytelling capabilities, 5th edition. Packt Publishing. 3. Kurniawati N I. (2020). Buku ajar teknik presentasi, rahasia tampil memukau saat presentasi. Jakad Media Publishing. Perpustakaan Nasional RI 4. Price, M. H. (2023). Mastering ArcGIS Pro. McGraw Hill. 5. Holloway, P. (2023). Understanding GIS through Sustainable Development Goals: Case Studies with 															

	<p>QGIS. CRC Press.</p> <ol style="list-style-type: none"> 6. McClain, B. P. (2022). Python for Geospatial Data Analysis. " O'Reilly Media, Inc." 7. Beaulieu A (2020). Learning SQL: Master SQL Fundamentals. " O'Reilly Media, Inc." 8. Billen R (2021). 3D City Models and Urban Information: Current Issues and Perspectives European COST Action TU0801. EDP Sciences <p>Supporting reference:</p> <ol style="list-style-type: none"> 1. Fleron B. (2017). Personal Branding – market your self: Tips to sell yourself and stand out from the crowd. 50 minutes.com 2. Graser A (2020). QGIS Maps Design. Locate Press. 3. QGIS Training Manual: https://www.qgistutorials.com/en/ (akses 27 Januari 2023) 4. QGIS Tutorial and Tips: https://www.qgistutorials.com/en/ (akses 27 Januari 2023) 5. Harder C (2017). The ArcGIS Book, second edition. 10 Big Ideas about Applying the Science of Where. Esri Press. 6. ArcGIS Tutorials: https://desktop.arcgis.com/en/arcmap/latest/get-started/introduction/arcgis-tutorials.htm (akses 27 Januari 2023) 7. ArcGIS Pro Quick Start Tutorials: https://pro.arcgis.com/en/pro-app/latest/get-started/pro-quickstart-tutorials.htm (akses 27 Januari 2023) 8. Learn ArcGIS: https://learn.arcgis.com/en/gallery/ (akses 27 Januari 2023) 9. Vanderpals J (2017). Python data science handbook, essential tools for working with data. O’reilly 10. Learn Tableau: https://www.tableau.com/learn (akses 27 Januari 2023) 11. Courses Sketchup: https://learn.sketchup.com/collections (akses 27 Januari 2023) 12. Tutorial Blender: https://www.blender.org/support/tutorials/ (akses 27 Januari 2023) 13. SQL Tutorial: https://www.w3schools.com/sql/ (akses 27 Januari 2023) 14. Pembuatan Geometrik Jalan: https://streetmix.net (akses 27 Januari 2023)
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