

Course	Course Name	Planning computation
	Course Code	DK184202
	Credit	3
	Semester	2

Description of Course

This course is a subject taught in semester 2 by providing an understanding of presentation techniques and the application of visualization support tools in spatial planning. This course also provides the basics of introduction and application of visualization support tools that can be used in spatial planning.

Learning Outcomes

Knowledge	Able to apply the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques
Skill	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	Students master presentation techniques and able to use visualization support tools in spatial arrangement
Skill	<ol style="list-style-type: none"> 1. Students are able to present intensity of land data survey results in communicative, effective, and informative way 2. Students are able to apply various multimedia visual communication in urban planning 3. Students are able to create maps according to urban planning needs 4. Students are able to identify the need for data on the basic building layout / spatial utilization index 5. Students are able to apply ArcGis Program in Spatial Planning 6. Students are able to apply AutoCAD Program in Spatial Planning

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| | <ol style="list-style-type: none"> 7. Students are able to apply Sketch Up Program in Spatial Planning 8. Students are able to apply Corel Draw Program in Spatial Planning |
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Module Learning Outcomes

1. Communication and Presentation in Urban Planning
2. Visualisation and tools supporting planning
3. The basics of mapping
4. Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)
5. Utilization of Sketch up in spatial planning
6. The basics of communication and presentation techniques
7. Utilization of AutoCad in spatial planning
8. Utilization of Corel Draw in spatial planning

Prerequisite

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References

1. Autocad map 3D for analysis and planning tools ; <http://www.autodesk.com/products/autodesk-autocad-map-3d/features/all/gallery-view> (akses 2 Februari 2014)
2. Husein, Edwin (2011); Coreldraw; Penerbit Jasakom
3. Idajati, Hertiar & Nursakti Adhi P (2014), Diktat Mata Kuliah Komputasi Perencanaan, Jurusan Perencanaan Wilayah dan Kota – ITS.
4. Noer, Muhammad (2014); Teknik Kreatif Menyajikan Presentasi Memukau, Penerbit PT. Elex Media Komputindo
5. Peta Tematik; <http://www.bakosurtanal.go.id/peta-tematik/> (akses 2 Februari 2014)
6. Sketchup For Urban Planning; <http://www.sketchup.com/3dfor/urban-planning> (akses 2 Februari 2014)
7. What Is Arcgis?; www.esri.com (akses 2 Februari 2014)