



DEPARTMENT OF GEOMATICS ENGINEERING
UNDERGRADUATE PROGRAM IN GEOMATICS ENGINEERING
COURSE SYLLABUS

COURSE	Name	Cartography
	Code	RM184101
	Credits	3 (three)
	Semester	I (one)

COURSE DESCRIPTION

In this course students will learn about cartography concept includes understanding about maps and map history. Understanding map means map significance, maps classification according to the nature and type. representation. The data is in the form of angles, distances and different heights that will be processed in the form of coordinates and subsequently will be presented or drawn in the form of maps. With the map making procedure, the task is made to make a map of the simulation data to be provided. Simulation data is given, because the participants of this course are located in semester I. The definition of scale is implanted to make maps, so that the appearance of the map is accurate, complete and interesting, the design and layout of the map are studied.

EXPECTED LEARNING OUTCOME

B	Able to design survey and mapping activities using the latest technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.
F	Able to compile scientific reports and provide solutions based on leadership, creativity and communication skills as well as being responsible for the work done.

COURSE LEARNING OUTCOME

1	Able to explain the concept of cartography, including the meaning of the map, the position of a place and the purpose of cartography
2	Able to distinguish type of maps which circulate in the community
3	Able to explain map making procedures in a simple way
4	Able to apply the use of scale and its calculations
5	Able to plot coordinates from available data
6	Able to design a simple map layout
7	Able to make contours from available data
8	Able to make a map from a set of available data (secondary data)

COURSE MATERIALS

1	Cartographic Concepts
2	Map classification
3	Simple map making procedure
4	Use of scale and its calculation
5	Plotting coordinates from available data
6	Simple map layout design
7	Making contour from available data
8	Map making from a set of available data (secondary data)

PREREQUISITE

No prerequisite

REFERENCES

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| A. | Main References |
| 1 | Aziz, Lukman dan Ridwan. 1979. Peta Tematik. Jurusan Teknik Geodesi FTSP ITB. Bandung |
| 2 | Aziz, Lukman dan Ridwan. 1979. Peta Tematik. Jurusan Teknik Geodesi FTSP ITB. Bandung |
| 3 | Yuwono, 2009. Kartografi. Prodi teknik Geomatika ITS. 2009. Surabaya. |
| B. | Additional References |
| 1 | Villanueva, K.J. 1984. Kartografi. Jurusan Teknik Geodesi FTSP ITB. Bandung . |
| 2 | Wolf, Paul, R. 1974 Elementary of Photogrametry |
| 3 | Kraak, MJ., Omerling, J. 1996. Cartography Petzation of spatial data Prentice Hall. London |