GUIDELINE OF STUDYING PROGRAM (GBPP)

Introduction of Geodesy (TGD 108-2SKS)

By:

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GUIDELINE OF STUDYING PROGRAM (GBPP)

Subject Title : Introduction of Geodesy

Code Number/SKS : TGD 108/2 SKS

Brief Description: The subject of Introduction of Geodesy study in elementary knowledge concerning geodesy and geomatica as geoinformasi was required student in course of study of geodesy science area. Including domination of elementary concepts of geodesy science branchs and mapping for example hydrography, land mapping, and geodesy-geomatica. Domination of information nowadays related to growth of technology and science in geodesy study expected can master and formulated by student.

General Instructional Target: In final of lecturing, student expected can comprehend, explaining and defining all growths of minimum geodesy science area science and technology 80% from entirety of taught items.

Number	Spesific Instructional Target	Main Topic	Sub Main Topic	Time Estimate	Reference
1.	Student expected can explain Geodesy concept and understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.	Geodesy, Geomatica and Geoinformation.	- Geodesi Meaning - Geomatika Meaning. - Geoinformation Meaning.	1x150	Bomford. 1975. *Geodesy*. London: Oxford University Press Mickhail, *et al. Surveying Theory and Practice*. New York: McGraw Hill Prihandito, A. 1988.

					Proyeksi Peta. Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005. Geologi Citra Penginderaan Jauh. Yogyakarta: Teknik Geologi FT UGM
2.	Student expected can explain Geodesy concept and understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.	Coordinate System	1. Coordinate system meaning and its application. 2. Line coordinate meaning and its application. 3. 2D coordinate meaning and its application. 4. Geographic coordinate meaning and its application. 5. Cartesian coordinate and its application. 6. Geodetic coordinate meaning and its application. 7. Geocentric coordinate and its	4x50	Bomford. 1975. *Geodesy.* London: Oxford University Press Mickhail, *et al. Surveying Theory and Practice.* New York: McGraw Hill Prihandito, A. 1988. *Proyeksi Peta.* Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005. Geologi Citra

			application. 8. Topocentric coordinate system and its application..		Penginderaan Jauh. Yogyakarta: Teknik Geologi FT UGM
3.	Student expected can explain Geodesy concept and understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.	Geodesy Physic	1. Understanding of geoid relation and of ellipsoid related of msl with and geoid of ellipsoid. 2. Understanding of relation 2 direction and dot cover ball distance and azimuth 3. Understanding of ball definition and notation cover transversally of geodesy line and longituade.		Bomford. 1975. *Geodesy.* London: Oxford University Press Mickhail, *et al. Surveying Theory and Practice.* New York: McGraw Hill Prihandito, A. 1988. *Proyeksi Peta.* Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005. Geologi Citra Penginderaan Jauh. Yogyakarta: Teknik Geologi FT UGM
4.	Student expected can explain Geodesy concept and	Geographic Information System	1. Understanding of Geographical Information System.	3x50	Bomford. 1975. *Geodesy.* London: Oxford

	understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.		2. Understanding of simple application of Geographical Information System.		University Press Mickhail, *et al. Surveying Theory and Practice.* New York: McGraw Hill Prihandito, A. 1988. *Proyeksi Peta.* Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005. Geologi Citra Penginderaan Jauh. Yogyakarta: Teknik Geologi FT UGM
5.	Student expected can explain Geodesy concept and understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.	Remote Sensing	1. Understanding of Remote Sensing. 2. Understanding of simple application of Remote Sensing.	3x150	Bomford. 1975. *Geodesy.* London: Oxford University Press Mickhail, *et al. Surveying Theory and Practice.* New York: McGraw Hill

					Prihandito, A. 1988. *Proyeksi Peta.* Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005. Geologi Citra Penginderaan Jauh. Yogyakarta: Teknik Geologi FT UGM
6.	Student expected can explain Geodesy concept and understanding, Geomatika and of Geoinformasi minimum 80% from entirety of taught items.	Database System	1. Understanding of Database System. 2. Understanding of simple application of Database System.	2x150	Bomford. 1975. *Geodesy.* London: Oxford University Press Mickhail, *et al. Surveying Theory and Practice.* New York: McGraw Hill Prihandito, A. 1988. *Proyeksi Peta.* Yogyakarta: PT. Kanisius. Soetoto, A. Setianto. 2005.

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