



**DEPARTMENT OF GEOMATICS ENGINEERING**  
**UNDERGRADUATE PROGRAM IN GEOMATICS ENGINEERING**  
**COURSE SYLLABUS**

<b>COURSE</b>	Name	Management of Survey and Mapping
	Code	RM184730
	Credits	3 (three)
	Semester	VII (seven)

**COURSE DESCRIPTION**

This lecture will examine the management of a measurement and mapping work. Methods of collection and types of work are discussed in lectures in class accompanied by assignments, so students have experience in making types of work and planning using a various mapping methods and cost estimation based on human resources, equipment and final results of medium and large scale maps. In addition, it was also discussed about the submission of fees, time to obtain and submit technical proposals in order to take part in job auctions from the government and the private sector.

**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.
C	Able to identify, formulate, analyze and solve problems in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.
D	Able to perform spatial data acquisition using modern measurement methods, geospatial data processing, using industry standard software, and making standard designs and analyzes in the fields of geodesy, surveying,
J	Able to apply the concepts of management, entrepreneurship, the latest technology-based innovation, sustainable and environmentally sound.

**COURSE LEARNING OUTCOME**

1	Students have knowledge of the main objectives of project management science.
2	Students have knowledge of the basic theories and methods of project measurement.
3	Students have experience to do financial calculations in mapping work.
4	Students are able to think critically about the use and management of measurements and mapping for planning and
5	Students are able to express their ideas orally and in writing.

**COURSE MATERIALS**

1	Introduction to Mapping Survey Management
2	Legislation and Ethics on Mapping
3	Terrestrial and Land Mapping Project Management
4	Project Management of Photogrammetry Mapping and Remote Sensing
5	Project Management Mapping Hydrographic Surveys
6	Surveying and Mapping Work Organization
7	Control and Quality Assurance of Mapping Survey Work
8	Project Planning, Scheduling and Monitoring
9	TOR / RKS for Survey and Mapping work
10	The Tender Process for Survey and Mapping Work
11	K3 aspects in Survey and Mapping activities

**PREREQUISITE**

Advanced Terrestrial Mapping, Remote Sensing, Geographic Information System

**REFERENCES**

A.	Main References
1	A.A. Karaini. Pengantar Manajemen Proyek. 1994.
2	Arief Rahman, Seri Diktat Kuliah Tata Laksana Proyek.1999
3	Manajemen Proyek, Konsep dan Implementasi. Budi Santosa.

B. Additional References

- 1 Kuliah Manajemen Media, Subhan Afifi. <https://www.slideshare.net/subhanafifi/prinsip-dasar-manajemen>.
- 2 IAMPI. Ikatan Ahli Manajemen Proyek Indonesia. <https://www.iampi.org>