



MODULE HANDBOOK

Remote Sensing

Revi Hernina, S.Si, M.T.

Undergraduate Study Program for Geography
Faculty of Mathematics and Natural Sciences
Universitas Indonesia

Remote Sensing

Module designation	Remote Sensing
Semester(s) in which the module is taught	Third (3rd) Semester
Person responsible for the module	Revi Hernina, S.Si, M.T.
Lecturer	<ol style="list-style-type: none"> 1. Revi Hernina, S.Si, M.T 2. Iqbal Putut Ash Shidiq, S.Si, M.Sc 3. Dr. Eng. Masita Dwi Mandini Manessa, M.Eng.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Student-centered Learning and combination with Cooperative Learning
Workload (incl. contact hours, self-study hours)	<ol style="list-style-type: none"> 1. Lectures: 100 minutes per week per semester 2. Assignment: 120 minutes per week per semester 3. Independent study: 120 minutes per week per semester 4. Minutes x weeks x semester: $340 \times 14 \times 1 = 4760$ minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 4950 minutes / 82 hours 40 minutes
Credit points	2 (Two)
Required and recommended pre-requisites for joining the module	<ol style="list-style-type: none"> 1. Cartography 2. Surveying and Mapping
Module objectives/intended learning outcomes	After completing this course, students are able to apply the basic principles of remotely in analyzing remote sensing image data
Content	<ol style="list-style-type: none"> 1. Basic Concept of Remote Sensing 2. Basic Physics of Remote Sensing 3. Active and Passive Remote Sensing 4. Characteristics of Remote Sensing 5. Basic Principles of Data Processing Remote Sensing 6. Distant Data Indication Analysis
Examination forms	-
Study and examination requirements	<ol style="list-style-type: none"> 1. Individual Score (50%) 2. Group Score (20%) 3. Midterm Examination (30%)
Reading list	<p>Lillesand, Kiefer and Chipman, 2005. Remote Sensing and image interpretation, fifth edition, John Willey and Sons, Singapore</p> <p>John R Jensen. 2005. Introductory Digital Image Processing A Remote Sensing Perspective. Pearson Prentice Hall. United States of America. 2005</p> <p>Aronof, Stand. 2005. Remote Sensing for GIS Managers. California: ESRI Press</p> <p>Remote Sensing of Environment, Jensen, Edisi 1.</p> <p>Geoscience and Remote Sensing, Pei-Gee Peter Ho (Editor)</p> <p>S. H. Purwadh, Interpretasi Citra Dijital. 2001. Grasindo Jakarta</p> <p>J.B.Campbell & R.H.Wynne. Introduction to Remote Sensing.2011.The Guilford Press.</p>