



MODULE HANDBOOK

Remote Sensing Lab

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

Remote Sensing Lab

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| Module designation | Remote Sensing Lab |
| Semester(s) in which the module is taught | Third (3rd) Semester |
| Person responsible for the module | Revi Hernina, M.T. |
| Lecturer | 1. Revi Hernina, M.T. |
| 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: 50 minutes per week per semester 2. Assignment: 60 minutes per week per semester 3. Independent study: 60 minutes per week per semester 4. Minutes x weeks x semester: $170 \times 14 \times 1 = 2380$ minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 2580 minutes / 43 hours |
| Credit points | 1 (One) |
| Required and recommended pre-requisites for joining the module | <ol style="list-style-type: none"> 1. Surveying and Mapping 2. Surveying and Mapping Lab |
| Module objectives/intended learning outcomes | After finishing this course, 3th (third) term students are able to analyze remote sensing image data based on the basic sensing principles. |
| Content | <ol style="list-style-type: none"> 1. The basic concept of remote sensing & remote sensing system 2. Geographic data 3. Types and characteristics of remote sensing data 4. Procedure for processing remote sensing imagery 5. Data analysis of remote sensing data |
| Examination forms | - |
| Study and examination requirements | <ol style="list-style-type: none"> 1. Individual Score (20%) 2. Group and Presentation Score (20%) 3. Quiz (10%) 4. Mid Examination (25%) 5. Final Examination (25%) |

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| Reading list | <p>Aronof, Stand. 2005. Remote Sensing for GIS Managers. California: ESRI Press</p> <p>John R Jensen. 2005. Introductory Digital Image Processing A Remote Sensing Perspective. Pearson Prentice Hall. United States of America. 2005</p> <p>Purwadh, F. Sri. 2001. Interpretasi Citra Dijital. Jakarta : Grasindo</p> <p>John A. Richards. 1995. Remote Sensing Digital Image Analysis An Introduction. Australia : Campbell ACT 2600.</p> <p>Lillesand Kieffer, 1990. Penginderaan Jauh dan Interpretasi Citra. Yogyakarta : Gadjah Mada University Press</p> <p>Benjamin F Richason, Jr. 1978. Introduction to Remote Sensing of the Environment. United States of America : Kendall/Hunt Publishing Company</p> <p>T.M. Lillesand & Kiefer. Remote Sensing and Interpretation Third Edition. 2003. John Wiley and Sons.</p> <p>J.B.Campbell & R.H. Wynne. Introduction to Remote Sensing. 2011.The Guilford Press.</p> |
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