

Module Handbook

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| Modul Name | Remote Sensing in Environment |
| Modul Level | Bachelor |
| Abbreviation, if applicable: | TLM 305 |
| Sub--heading, if applicable: | - |
| Courses included in the module, if applicable: | - |
| Semester | Even |
| Module Coordinator | Thin Soedarti |
| Lectures | Thin Soedarti Febri Eko Wahyudianto |
| Language | Bahasa Indonesia |
| Classification within the curriculum: | Compulsory Course / Elective Studies |
| Teaching format/ class hours per week during semester | 300 minutes/ week |
| Workload per semester | 100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS |
| Credit point | 2 |
| Requirements | - |
| Learning goals/competencies | <p>General Competence (Knowledge)</p> <p>Students will be able to develop an interest in the field of remote sensing technology, able to follow developments in biology and related technologies in the field of remote sensing, capable of sampling organisms in nature in the field of remote sensing technology, is able to analyze the results of research in the field of remote sensing technology, can explain biodiversity Indonesia, able to communicate orally and in writing, and can work independently or in groups.</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Students are able to explain the scope of remote sensing especially environmental remote sensing, geographic remote sensing (SIG), and the principles of electromagnetic remote sensing. 2. Students are able to explain the natural surface reflectance spectrum and multispectral 3. Understanding the photographic remote sensing system 4. Understanding the non- photographic remote sensing system 5. Understanding imaging system 6. Explaining the method of imaging analysis 7. Implementing the methods of satellite data acquisitions 8. Implementing the method of imaging process 9. Implementing the method of imaging analysis using unguided method 10. Implementing the method of imaging analysis using guided method 11. Implementing the method of imaging analysis using modification method 12. Implementing the method of making maps |

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| Content | Orientation and scope, remote sensing systems, the principle of electromagnetic remote sensing, natural surface reflectance spectra, multispectral, photographic remote sensing, remote sensing non photographic thermal systems, remote sensing systems non photographic microwave and radar systems, remote sensing systems non photographic, satellite imagery method , GIS, classification, scientific presentations. |
| Soft skill Attribute | Discipline and Team Work |
| Study/ exam achievements | <p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Paper project (20%), mid exam (35%), final exam (35%), and soft skill (10%)</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99</p> |
| Form of media | LCD |
| Learning Method | Class and discussion |
| Literature | <p>a. Lilesand, T.M 7 Kiefer, R.W., 199, <i>Penginderaan Jauh dan Interpretasi Citra</i>, diterjemahkan oleh Dulbari, Suharsono, p., dan Suharyadi, H., penyunting Sutanto, Gadjah Mada University Press. Yogyakarta</p> <p>b. C.P.lo. 1996, <i>Penginderaan Jauh Terapan</i>. UI Press. Jakarta.</p> |
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