Preliminary semester plan
Study Program – Master of Science
Earth System Data Science and Remote Sensing
WiSe 2023/24 – Compulsory Modules

Module Registration 27 September, 12.00 (noon) - 4 October 2023, 17.00
(Please send questions regarding module registration to: einschreibung-physgeo@uni-leipzig.de)

1st semester

Module 12-GEO-M-RS01
Remote Sensing Products for Earth System Research (Peng, Jian)
Introduction to Global Remote Sensing Data Products
S Thu 13:15 – 14:45 SR 1 (0.06) Tal 35 Peng, Jian
Start: 12.10.2023 (14daily)
Applications of Remote Sensing Products
Ü/E Wed 13:15 – 14:45 CP III Tal 35 Peng, Jian

Module 12-GEO-M-SK01
Research Data Management and Social Responsibility (Kraemer, Guido)
Research Data Management and Social Responsibility
S Mon 09:15 – 10:45 HS 2 (1.12) Tal 35 Kraemer, Guido
Research Data Management
Ü/E Mon 10:45 – 11:30 HS 2 (1.12) Tal 35 Kraemer, Guido

Module 12-GEO-M-AG01
Introduction to Data Science (Sippel, Sebastian; Kretschmer, Marlene)
Introduction to Data Science
V/L Thu 09:30 – 11:00 HS 2 (1.12) Tal 35 Kretschmer, Marlene
Start: 19.10.2023
Data Science
Ü/E Thu 11:15 – 12:45 CP III Tal 35 Kretschmer, Marlene
Start: 19.10.2023 (14daily)

Rooms
HS 2 (1.12) = Lecture Hall
HS 01 = Lecture Hall
CP III = Computer Pool III
SR 1 (0.06) = Seminarraum 1

Location
V/L = Lecture
S = Seminar
Ü/E = Exercise
Module 12-GEO-M-AG02

Earth System Components (Mahecha, Miguel)

Introduction to the Earth System
V/L Tue 11:15 – 12:45 HS 2 (1.12) Tal 35 Mahecha, Miguel

Earth System
Ü/E Tue 13:15 – 14:00 HS 2 (1.12) Tal 35 Mahecha, Miguel

Module 12-GEO-M-AG03

Introduction to Environmental Remote Sensing (Vohland, Michael)

Introduction to Environmental Remote Sensing
V/L Wed 08:00 – 08:45 CP III Tal 35 Vohland, Michael

Introduction to Environmental Remote Sensing
Ü/E Wed 08:45 – 10:15 CP III Tal 35 Vohland, Michael

Subject to change !!!

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### Rooms
- HS 2 (1.12) = Lecture Hall
- HS 01 = Lecture Hall
- CP III = Computer Pool III
- SR 1 (0.06) = Seminarraum 1

### Location
- Tal 35 = Talstraße 35
- V/L = Lecture
- S = Seminar
- Ü/E = Exercise

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3rd semester

Module 12-GEO-M-DS03

Applied data analysis of earth-surface processes (Al-Halbouni, Djamil)

Introduction to earth surface deformation

| V/L | Wed | 15:15 – 16:45 | HS 01 | Tal 35 | Al-Halbouni, Djamil |

Numerical analysis

| Ü/E | Mon 04.03. – Fri 08.03.24 | 08:00 – 18:00 | Al-Halbouni, Djamil |
| Ü/E | Mon 11.03. – Fri 15.03.24 | 08:00 – 18:00 | Al-Halbouni, Djamil |

Module 12-GEO-M-DS04

Data Analysis in Hyperspectral Remote Sensing (Feilhauer, Hannes)

Machine Learning

| V/L | Thu | 12:00 – 12:45 | HS 2 (1.12) | Tal 35 | Feilhauer, Hannes |

Machine Learning in Hyperspectral Remote Sensing

| Ü/E | Thu | 13:15 – 14:45 | CP III | Tal 35 | Feilhauer, Hannes |

Module 12-GGR-M-GFP3

Imaging and Non-imaging Reflectance Spectroscopy – Techniques and Data Analysis (Vohland, Michael)

Imaging and Non-imaging Reflectance Spectroscopy – Techniques and Data Analysis

| V/L | Tue | 15:00 – 15:45 | CP III | Tal 35 | Seidel, Michael; Vohland, Michael |

| Ü/E | Tue | 15:45 – 17:15 | CP III | Tal 35 | Seidel, Michael; Vohland, Michael |

Module 12-GEO-M-SK03

Internship (Feilhauer, Hannes)

Internship

Time and place by arrangement | Feilhauer, Hannes

Please report to the module supervisor for approval of the internship before starting.

Subject to change !!!

Rooms

| HS 2 (1.12) | Lecture Hall |
| HS 01 | Lecture Hall |
| CP III | Computer Pool III |
| SR 1 (0.06) | Seminarraum 1 |

Location

| Tal 35 | Talstraße 35 |
| V/L = Lecture |
| S = Seminar |
| Ü/E = Exercise |
Preliminary semester plan
Study Program – Master of Science
Earth System Data Science and Remote Sensing
WiSe 2023/24 – Compulsory elective modules
(Please note that you can also take the following modules as free electives!)

3rd semester

Module 12-111-1036

E2 – Ground-based Radar and Microwave Remote Sensing (Kalesse-Los, Heike)

Remote Sensing of the Atmosphere with Radar and Microwave Radiometer

V/L  Tue  13:00 – 14:30 SR Arktis  Prager Str. 34  Kalesse-Los, Heike

Microwave Remote Sensing

Ü/E  Tue  14:30 – 15:15 SR Arktis  Prager Str. 34  Kalesse-Los, Heike

Module 12-111-1038

E4 – Active Remote Sensing with Lidar (Baars, Holger)

Active Remote Sensing with Lidar

V/L  Wed  10:45 – 12:15 TROPOS  Permoserstr. 15 Baars, Holger

Active Remote Sensing with Lidar

S  Wed  13:00 – 13:45 TROPOS  Permoserstr. 15 Baars, Holger

Subject to change !!!