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| Course code | 10SPS00101 |
| Course title | Introduction to Observational Astronomy I |
| Term | 前期 1st Half |
| Credit(s) | 2 |
| The main day | |
| The main period | |
| School/Program | School of Physical Sciences |
| Department/Program | Common Subjects of Physical Sciences |
| Category | Common Subjects of Physical Sciences |
| Lecturers | |
| Instructor | |
| Full name | |
| TANAKA MASAYUKI | |
| Outline | |
| <p>This course provides an introduction to observational astronomy, starting with an overview of fundamental elements of astronomical observations such as optics, detectors, effects of atmosphere, magnitude and coordinate systems , followed by discussions on properties of stars, galaxies, and other celestial objects. The course also aims to give an introduction to the expanding Universe.</p> | |
| Goal | |
| <p>The goal of the course is to provide students with the foundation necessarily to carry out observational research.</p> | |
| Grading system | |
| <p>01:Four-grade evaluation (A,B,C,D)</p> | |
| Grading policy | |
| <p>Contributions to discussions and homework assignments.</p> | |
| Lecture Plan | |
| <p>1 : The Universe 2 : Telescope and optics 3 : Atmosphere, filter, and detector 4 : Data processing 5 : Magnitude and coordinate systems 6 : Stars 7 : Gas and dust</p> | |

8 : Physical processes of emission and absorption

9 : Galaxies

10: Active galactic nuclei

11: Distance ladder

12: Expanding universe

13: Large surveys

14: Unresolved issues

Location

Online

Language

English

Textbooks and references

None