

Method of Science Education 4

Teacher Licence
Subjects Requisites
2 credit

SAITO, Takeshi

1. Course Description

In this course, all students will experience simulated lessons. It is a lecture aiming to train practical leadership skills by evaluating lessons as well as students (learners). In the research consultation, we will do group work. Aim to improve the qualities and abilities required as science teachers. The learning guidance plan will create what incorporates more advanced ingenuity improvement. We will prepare teaching materials using information equipment and aim to develop understandable lessons.

2. Course Objectives

Understand the curriculum objectives and field targets of junior high school science education. You can acquire the basic knowledge and skills necessary for science teachers, and can be used for subject guidance and student guidance. We can prepare teaching instruction plans and develop effective classes. Understand effective utilization of information equipment and use it for subject guidance.

3. Grading Policy

Evaluate with the content of the teaching instruction plan, Simulated lesson (Lesson composition, Practical leadership skill, Teaching material research, Ingenuity of evaluation, Status of participation in research consultation) (60%), Exercise printouts and assignment report (40%). In the research consultation, evaluate the content of the teaching instruction plan and the simulated lesson.

4. Textbook and Reference

Textbook

TUKADA Masaru OYA Yoshiki EGUCHI Tarou SUZUKI Morihisa and 58 others "Science 1 Spreading to the Future" ISBN 978-4-402-018245

Keirin Kan.

MEXT "Junior High School Course of Study Guide Science Edition" July Heisei 29 year. ISBN 978-4-7625-0613-0. Gakkou Tosyo.

NIER Curriculum Research Center "Reference materials for learning evaluation for "Integration of guidance and evaluation" [Junior High School Science] June 2020

ISBN 978-4-491-04135-3 Touyoukann Syuppannsya

5. Requirements (Assignments)

Please review the content of the each lesson and research on teaching materials for each unit, so that you can evaluate the lesson at the research consultation of simulated lesson (90 minutes). I will talk about issues related to the science education. So, please do research and submit (90 minutes).

6. Note

- Reference books are used from the first time so be sure to prepare them.
- Please take lectures with the awareness of aiming for faculty members.

7. Schedule

- [1] Orientation.
- [2] Junior high school science course contents of study in each field.
- [3] Making an annual guidance plan of the Junior high school science. Evaluation by point of view and evaluation criteria.
- [4] About the teaching instruction plan form. Simulated lesson unit decision (1st field).
- [5] Make a teaching instruction plan based on form
- [6] Simulated lecture by students and research consultation①. Research consultation with the theme of how to write guidance proposals.
- [7] Simulated lecture by students and research consultation②. Research consultation with the theme of the introduction.
- [8] Simulated lecture by students and research consultation③. Research consultation with the theme of word usage.
- [9] Simulated lecture by students and research consultation④. Research consultation with the theme of the blackboard planning and the teaching materials research.
- [10] Simulated lesson unit decision (Second Field). Make a teaching instruction plan based on form.
- [11] Simulated lecture by students and research consultation⑤. Research consultation with the theme of the inquiry.
- [12] Simulated lecture by students and research consultation⑥. Research consultation with the theme of development of lessons.
- [13] Simulated lecture by students and research consultation⑦. Research consultation with the theme of utilization of information equipment.
- [14] Simulated lecture by students and research consultation⑧. Research consultation with the theme of demonstration experiment.
- [15] Issues and improvement noticed by implementation of simulated lesson.