


 FPMIPA UPI	SILABUS	No. Dok. : FPMIPA-SE-SL-16 Revisi : 00 Tanggal : 1 Oktober 2010 Halaman : 1 dari 2
	Science Laboratory SE305-2 Credits 3rd Semester - IPSE	
Dibuat Oleh :  (Prof. Dr. Anna Permanasari, M.Si)	Diperiksa Oleh :  (Dr. Diana R.)	Disetujui Oleh :  (Dr. phil. Ari Widodo)

Description

This course is a necessary one in undergraduate science education. It is the basic of knowledge and pedagogical aspects of science lab at school, so it is also functions as a supporting course for expertise course group at science education program. After attended this course, it is expected that the student will be competent in the knowledge of science laboratory topics, and able to expand it as learning materials. The student learning and exercise to use and to maintain basic science instruments, science laboratory involving laboratory design, lab facilities, raw materials and lab instruments, working safety in lab, and using and maintaining instruments in school science kit with their own design based on science curriculum. Lecturing conducted using conceptual and contextual approach also guided-inquiry, with methods: demonstration, practices works, discussion, questions and answers, speech, aided with using LCD, OHP and apparatus. The students achievement checked by mid-semester test and final-semester test and also paper and presentation.


Syllabus

1. Courses Identity

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|-------------------|--|
| a. Name | : Science Laboratory |
| b. Code | : SE 207 |
| c. Credit (s) | : 2 credits |
| d. Grade | : 1 st grade, on 2 nd semester |
| e. Classification | : Concretion Competence Courses |
| f. Program | : IPSE-FPMIPA UPI/ S-1 |
| g. Statue | : compulsory |
| h. prerequisite | : - |
| i. Lecturer | : Prof. Dr. Anna Permanasari, M.Si
Dr. Riandi
Heli Siti, H.M., M.Si
Irma Rahma Suwarma, M.Si. |

2. Goal

Student will be competent in the knowledge of science laboratory management and also competent in using and maintaining science apparatus.

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3. Content

The student learning and exercising to use and to maintain basic science instruments, to manage science laboratory involving laboratory design, lab facilities, raw materials and lab instruments, administration of lab management, working safety in lab, and using and maintaining instruments in school science kit

4. Learning Activities

- Method(s) : demonstration, practices works, discussion, questions and answers, speech
- Approach(s) : conceptual and contextual approach
- Assignment : structured-assignment
- Media : LCD, OHP and apparatus, Science Kit

5. Assessment

The students achievement checked by mid-semester test and final-semester test and also paper and presentation

6. Meeting's Agenda:

- 1st Meeting : Introduction to Science Laboratory II
- 2nd Meeting : Works in Laboratory
- 3rd Meeting : Laboratory works in physics I
- 4th Meeting : Laboratory works in physics II
- 5th Meeting : Laboratory Safety in Chemistry Laboratory
- 6th Meeting : Laboratory works in Chemistry I
- 7th Meeting : Laboratory works in Chemistry II
- 8th Meeting : Basic Skills in Biology Laboratory
- 9th Meeting : Experiment I
- 10th Meeting : Experiment I
- 11th Meeting : Presentation
- 12th Meeting : Presentation
- 14th Meeting : Presentation
- 15th Meeting : Presentation
- 16th Meeting : Presentation