

COURSE

- Credit : 3 (2-1)
- **Semester** : 1 / 2
- Course format: Lecture (100 min per week) for 14 weeks and laboratory work (3 h per week) for 5 weeks
- Pre-requisite : -
- Number of students: ? divided into?
 groups

LECTURER



Rosalina Ariesta L (RAL)



Endrika Widyastuti (EWT)



Jaya Mahar Maligan (JMM)

COURSE CONTRACT



Come on time



Silent your cell phone



Manage your tasks & assignment



Actively participate, Think creatively



Read, Read more and more



No plagiarism

LABORATORY RULES

- Attendance in all laboratory work is compulsory. For legitimate excuses, one may attend laboratory session in another group.
- Each student must <u>use laboratory coats</u> during laboratory work sessions.
- For advance preparation in laboratory work, each student must <u>summarize</u> analytical procedures in the form of flowchart and <u>complete the pre lab</u> (work sheets).

STUDENT GROUPING

- Students are divided into ? groups, each group consist of ? students.
- Students in each group will work as a team to conduct laboratory work.
- Each group must share the data among them, equally in the laboratory work.
- Look at <u>laboratory manual</u> about the sequence and <u>schedule</u> of your laboratory work for each laboratory session.

Score Grading



Assignment 20%



Laboratory Work 30%



Quiz 10%



Middle & Final Test 20%



Activity 20%

Score Grading



Pre lab: 5%



Post test: 5%



Laboratory Activity: 15%



Laboratory Report: 5%

GRADE SCORE

Range	Grade
>80-100	A
>75-<80	B+
>70-<75	В
>60-<70	C+
>55-<60	C
>50-<55	D+
>45-<50	D
<45	E

Cheating students will be punished with "E" grade

COURSE TOPICS

Week	Topics	PIC
1	Introduction (Course Contract)	JMM
2	Biological Materials	RAL
3	Cell: Structure and Function	RAL
4	Bioenergetic cell	RAL
5	Development of Cell	RAL
6	Organisms Classification	RAL
7	Atom Cycle	JMM
8	Middle Test	Team

COURSE TOPICS

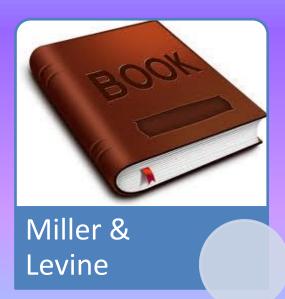
Week	Topics	PIC
9	Ecology (Biotic and Abiotic)	JMM
10	Biodiversity	JMM
11	Plants and Agricultural Technology	JMM
12	Animals and Agricultural Technology	EWT
13	Microorganism and Agicultural Technology	EWT
14	Gene: Structure and Function	EWT
15	Biotechnology	EWT
16	Final Test	Team

LABORATORY WORK

Week	Topics
1	Microscope and callibration of micrometer
2	Identification of Microorganism Morphology Colony
3	Cell : Plant Tissue
4	Cell: Animal Tissue
5	Respiration and Photosynthesis
6	Aquatic Biodiversity
7	Interaction Biotic and Abiotic (Ecology)

REFERENCES







N.A Campbell and J.B. Reece. 2005. Biology. Benjamin Cummings K.R. Miller and J. Levine. 2008. Biology. Pearson Prentice Hall

DOWNLOADED COURSE

The course can be downloaded by using the following address:

- endrikawidyastuti.wordpress.com
- maharajay.lecture.ub.ac.id
- thpunibraw@yahoo.com
- e-tp.ub.ac.id

Assessment Tools

- Homework/assignments.
- Group assignment
- Oral presentation
- Quiz
- Activity during course and lab work
- Midterm and final test

Thanks