

## FUNDAMENTALS OF IN VITRO CULTURE TECHNIQUES

BIO-60202
1 <sup>st</sup> year of Master Program in Biology
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Odd
Dr. Endang Semiarti, M.S., M.Sc.
<ol> <li>Dr. Endang Semiarti, M.S., M.Sc.</li> <li>Dr.rer.nat. Ari Indrianto, SU</li> </ol>
Bahasa Indonesia and English
Compulsory Courses for Specific Field of Interest
This course is organized into one class and planned to
This course also has laboratory works credits.
Estimated working hour: 10,5 hours/week.
2-1 credits
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1. Able to plan and design plant tissue culture experiments
In Fundamentals of Vitro Culture Course explain the basic principles of plant tissue culture and principles that are used as the basis for implementing tissue culture techniques. Principles of laboratory equipment and technical equipment for tissue culture, various kinds of tissue culture medium, aseptic working principles, and explaining the need for various types of tissue culture based on research objectives and types of plant materials used: callus and cell suspension cultures, isolation, fusion and protoplast culture, microspores embryogenesis, micropropagation / cloning. Added an explanation of the molecular basis of plant development and the latest developments in research on plant tissue culture.
a. Midterm: 30%
<ul> <li>D. Final examination: 50%</li> <li>c. Quiz: 5%</li> </ul>
d. Homework: 15%
White board, notebook, LCD

