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| <b>Course Title</b>  | Mycology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                  |
| <b>Semester</b>      | 3-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Course Type</b>   | Advanced         |
| <b>Course Number</b> | 20147-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>No. of Credit</b> | 3/3/0            |
| <b>Professor</b>     | Hee-Moon Park                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>E-mail</b>        | hmpark@cnu.ac.kr |
| <b>Objective</b>     | <p>Fungi is one of the eukaryotic microorganisms, which affects human life in many ways. In order to understand the biology of fungi, basic biological properties and industrial application of the fungi will be discussed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                  |
| <b>Syllabus</b>      | <ol style="list-style-type: none"> <li>1. Fungal diversity</li> <li>2. Fungal cell biology and development</li> <li>3. Spore production, discharge and dispersal</li> <li>4. Genetics - variation, sexuality, and evolution</li> <li>5. Physiology and adaptation 1: primary and secondary metabolism</li> <li>6. Physiology and Adaptation 2: sensing and responding to the environment</li> <li>7. Molecular ecology</li> <li>8. Mutualistic symbiosis between fungi and autotrophs</li> <li>9. Pathogens of autotrophs 1</li> <li>10. Pathogens of autotrophs 2</li> <li>11. Interaction with human</li> <li>12. Interaction with animals</li> <li>13. Interaction between fungi and other microbes</li> <li>13. Fungi, ecosystems, and global change</li> <li>14. Fungi and biotechnology</li> </ol> |                      |                  |