

Course Title	Advanced Microbial Ecology		
Instructor	Tomoyasu NISHIZAWA, Kazuhiko NARISAWA		
Code	MA051900	Semester	1st (April-)
Credit(s)	1	Day/Period	Mon, 2
Description Code	A-BIS-633		
Outline	The advanced lecture contains an understanding of the environmental problems from the viewpoint of microbes-plants symbiosis in environmental soil.		
Keywords	Nutrient cycling, Environmental microbes, Plant-microbes interaction, Microbial community analysis		
Goals	Master course students can obtain the latest knowledge regarding environmental symbiotic sciences.		
Course Plan	1. Introduction of advanced microbial ecology (TN) 2. Nature of the symbiotic association (KN) 3. The role of root associate microorganisms (KN) 4. plant-microbes interactions in environmental soil (TN) 5. Discussion and presentation : symbiotic association (KN) 6. Discussion and presentation: root associate microorganisms (KN) 7. Discussion and presentation: plant-microbes interactions (TN) 8. Group discussion regarding microbial community and diversity (TN) [Diploma Policy] Academic and research skills in the specialized field, Extensive comprehension, International communication skills		
Advice for Preview and Review	Course students attend the class and reveal incomprehensible things in the class.		
Prerequisite			
Grading Criteria	by the issues report (30%) and discussion (30%) including presentation (40%)		
Texts/References	Reference books will be introduced in the class.		