

Module designation	Phytoplankton
Semester(s) in which the module is taught	Odd
Person responsible for the module	Kuntum Febriyantiningrum S.Si., M.Sc., Rahmania Pamungkas M.Pd.
Language	Bahasa Indonesia
Relation to curriculum	Elective
Teaching methods	Lecture, lesson, project, seminar, exam
Workload (incl. contact hours, self-study hours)	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points	2 SKS (3.2 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	PLO 1 PLO 4 PLO 6 PLO 7 PLO 9
Content	This course covers material about: (1) Phytoplankton scope, (2) Environmental factors affecting phytoplankton, (3) Freshwater phytoplankton in ponds, (4) Freshwater phytoplankton in reservoirs and lakes, (5) Phytoplankton water freshwater in the river, (6) Freshwater phytoplankton in the reservoir, (7) Freshwater phytoplankton in the cave, (8) Freshwater phytoplankton in the swamp, (9) Brackish water / estuary phytoplankton in the mangrove, (10) Brackish / estuary phytoplankton in the lagoon, (11) Phytoplankton in seawater, (12) Phytoplankton in salt water lakes, (13) Phytoplankton in low pH, (14) Phytoplankton related to aquatic ecosystems, (15) Diversity index and dominance index of phytoplankton to determine water quality, and (16) Types of phytoplankton that can be cultivated.
Examination forms	Presence, task, mid semester exam, final semester exam, case study, team based project.

Study and examination requirements	The final mark will be weight as follow: <table><tr><th>NO</th><th>Assessment Techniques</th><th>Percentage Weight Assessment (%)</th><th>Information</th></tr><tr><td rowspan="5">1</td><td>Cognitive</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr><tr><td>Presence</td><td>5</td><td></td></tr><tr><td>Task</td><td>10</td><td></td></tr><tr><td>Mid Semester Exam</td><td>15</td><td></td></tr><tr><td>Final Semester Exam</td><td>20</td><td></td></tr><tr><td rowspan="3">2</td><td>Participatory</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr><tr><td>Case Study</td><td>25</td><td></td></tr><tr><td>Team Based Project</td><td>25</td><td></td></tr><tr><td></td><td>Total</td><td>100</td><td></td></tr></table>	NO	Assessment Techniques	Percentage Weight Assessment (%)	Information	1	Cognitive	50	Maximum assessment weight accumulation 50%	Presence	5		Task	10		Mid Semester Exam	15		Final Semester Exam	20		2	Participatory	50	Maximum assessment weight accumulation 50%	Case Study	25		Team Based Project	25			Total	100	
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Reading list	A. Barus. T. A. (2004). Pengantar Limnology Study Tentang Ekosistem Air Daratan. Medan: USU Press. B. Sudarsono, S. (2022). STRUKTUR KOMUNITAS DAN POLA SEBARAN PLANKTON PADA MUSIM PENGHUJAN DI EMBUNG MERDEKA BAMBANGLIPURO BANTUL. Kingdom (The Journal of Biological Studies), 8(2), 147-159. C. Rahmawati, N., & Sudarsono, S. (2018). STRUKTUR KOMUNITAS FITOPLANKTON DI LAGUNA PENGKLIK, KABUPATEN BANTUL, DAERAH ISTIMEWA YOGYAKARTA. Jurnal Edukasi Biologi, 7(6), 403-406. D. Mahardika, N., & Sudarsono, S. (2018). KELIMPAHAN DAN KEANEKARAGAMAN ZOOPLANKTON DI LAGUNA PANTAI DEPOK, KABUPATEN BANTUL, YOGYAKARTA. Kingdom (The Journal of Biological Studies), 7(1), 78-81.																																		