

CURRICULUM OF BIOLOGY STUDY PROGRAM

The curriculum in undergraduate programs is developed and evaluated by existing regulations including the Decree of the Minister of National Education concerning the Core Curriculum of Higher Education, Decree of the Minister of National Education of the Republic of Indonesia No. 045/U/2002), PTKI Curriculum Development Guide Referring to the 2013 IQF (KKNl), PTKI Curriculum Development Guide 2018 (Appendix 1.2), Chancellor's Decree Regarding Curriculum Development Guidelines (Appendix 1.12) and Decree of the Dean of the Faculty of Science and Technology regarding the establishment of the 2020 curriculum (Appendix 1.13.). The curriculum is strategically designed to attain specific competency profiles through the instructional process. Each study program formulates its own curriculum based on the requisite Learning Outcomes (LOs), which are derived from the intended competency.

profile. Following the determination of LOs, each study program selects a body of knowledge to prescribe the relevant modules for achieving these LOs. The depth of each module reflects its contribution level toward attaining specific LOs. The Study Program meticulously assesses the depth of each module in terms of credit allocation, with the aim of satisfying the minimum 144-credit requirement for a bachelor's degree in Indonesia. Furthermore, the depth of each module plays a crucial role in the achievement of LOs. Within the context of curriculum development, module depth is indicated through the vertical distribution of modules. Modules taught in later semesters possess greater depth and significantly contribute to the realization of the study program's intended competency profile. It is evident that the structural composition and content of the curriculum play a pivotal role in attaining the desired competency profile of the study program. The evaluation and updating of the Study Program Curriculum are conducted periodically every five years, with a yearly review of the Semester Learning Plan (RPS) (Appendix 1.14). The curriculum evaluation and updating process actively involves various stakeholders. To develop and formulate the curriculum of the study program, it commences with a workshop on the Indonesian National Qualifications Framework (KKNl) curriculum framework, which addresses curriculum-related issues in terms of alignment with the program's vision, mission, objectives, as well as industry and societal needs (profession). The workshop activities simultaneously review the curriculum, involving the collection of inputs from both internal and external stakeholders. This is followed by the curriculum development (implementation) process, with a team composition including internal members from the Faculty of Science and Technology (FST), the Study Program, and the active engagement of external stakeholders, including students, alumni, government, industry representatives, academics, international work partners, and associations.

In Biology department participation in internships or fieldwork/apprenticeship is a mandatory requirement. Students seeking internships must initiate contact with the desired company or institution where they intend to complete their internship (Appendix 1.15). Following confirmation from the company or institution, students are required to report to the study program coordinator, who oversees the requisite administrative procedures, including the appointment of supervisors. Each apprenticeship involves two supervisors: one affiliated with the study program and the other representing the company or institution. During the internship period, which spans one month, students engage in both practical work and report writing, with the assessment criteria aligning with those of practical coursework and carrying four credits. Each study program has established partnerships in accordance with the specified intended learning outcomes. For example, numerous Mathematics students undertake internships at the Central Bureau of Statistics (BPS). Within the current framework of the Indonesian Higher Education system, students are strongly encouraged to dedicate three semesters to engage in diverse activities under the Merdeka Learning – Merdeka Campus (MBKM) program. Students possess the liberty to choose from one of eight MBKM schemes, including (1) student exchanges, (2) practical work, (3) teaching assistantships, (4) research projects, (5) humanitarian endeavors, (6) entrepreneurial initiatives, (7) independent projects, and (8) rural development efforts (Appendix 1.16).

Structure and Modules

All modules Biology study program are constructed based on the relevant body of knowledge to fulfill the entirety of the program's learning outcomes (LOs). Each module bears its distinct responsibilities and contributes to the program's pursuit of specific LOs, either independently or in collaboration with other modules, and they are thoughtfully aligned with one another. Certain modules build upon the foundations laid by others, with some modules serving as prerequisites for more advanced ones. In cases where modules no longer align with the overarching concept of the study program, they are subject

to removal during the subsequent curriculum revision. In the most recent revision, adjustments were made to transition from the 2015 curriculum to the 2020 curriculum for the four study programs (Appendix 1.13). The curriculum for these four study programs adheres to the Indonesian National Qualifications Framework, categorizing undergraduate degrees at the academic level 6. This classification entails a curriculum design that equips students with comprehensive knowledge and skills in specific subjects, as well as in-depth mastery of certain facets within these subjects. Consequently, all courses within each study program's curriculum are structured to support the academic level expected of the respective program. Regarding elective courses, the curricula of these four study programs offer varying options with differing credit values. All elective courses are purposefully designed to reinforce the knowledge and skills necessary for the attainment of enhanced program LOs. These elective courses provide students with opportunities to concentrate on subjects that align with their academic interests and skill development aspirations. Enrollment in elective courses significantly enhances the achievement of LOs, and some students may choose to exceed the 144-credit requirement to pursue additional elective courses.

PLO (Program Learning Outcome)

PLO	PLO REDACTIONAL	CATEGORY	TOTAL COURSE	PLO ACHIEVEMENT
1.1	Able to solve science and technology problems in the field of management and utilization of biological and environmental resources through principles of biology and relevant sciences.	Specialized Skills	19	85%
1.2	Capable of applying biological knowledge for personal, societal, and environmental benefits in everyday life.		41	35%
1.3	Able to present alternative solutions to problems in the field of management and utilization of biological and environmental resources within a specific scope, which can be used as a basis for making informed decisions.		2	72%
2.1	Mastering the principles and theoretical concepts of biology supported by relevant sciences.	Mastery of Knowledge	15	81%

Mastery of Knowledge

2.2	Mastering the concepts, principles, and applications of biological knowledge in the utilization of biological and environmental resources, as well as related fields.		39	83%
2.3	Mastering relevant concepts, principles, and applications of biotechnology.		30	80%
2.4	Mastering the principles and concepts of technology-based measurement, instruments, as well as standard methods in analyzing and synthesizing biological and environmental resources.		0	0%
3.1	Applying logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology according to their expertise area without disregarding ethics.		25	85%
3.2	Managing learning independently, with quality, and measurably.	General Skills	33	90%
3.3	Developing and maintaining a network of collaboration with mentors, colleagues, and peers both within and outside of their institution.		18	82%
3.4	Taking responsibility for achieving work results either independently or in groups, as well as being capable of		15	87%

	supervising and evaluating the completion of such tasks.			
4.1	Upholding human values in carrying out tasks based on religious, moral, and ethical values and norms.	Attitudes	7	97%
4.2	Appreciating cultural diversity, perspectives, religions, beliefs, as well as the opinions or original findings of others.		7	93%
4.3	Complying with the law and maintaining discipline in societal and national life.		5	97%
4.4	Internalizing the spirit of independence, perseverance, and entrepreneurship.		6	97%

Workloads and Credits.

Workload and Credits In accordance with the Decree of the Minister of Education, Research and Technology No 3 of 2020 Chapter 17 article 1 point d (Appendix 1.20.), Undergraduate Programs in Indonesia require 144 credit points to be completed within 4 to 7 years. However, the Chancellor of UIN Jakarta has determined that the study period for undergraduate programs at UIN Jakarta ranges from 7 to 10 semesters or 3.5 to 7 years, and can be extended semiannually up to a maximum of 14 semesters by submitting: (1) a letter of application for study extension one semester, (2) a letter of statement from the student for his sincerity in completing studies in an additional semester, (3) a letter of guarantee for the supervising lecturer. According to the decree, 1 credit is equivalent to 170 minutes of workload. consisting of 50 minutes for scheduled face-to-face module delivery, 60 minutes for structured assignments, and 60 minutes for self-study. The credit point system used in Indonesian universities is different from that used in European universities. Therefore, it is necessary to transfer credit points that apply at UIN Jakarta to become credit used at European Universities using the European Credit Transfer and Accumulation System (ECTS) based on student workload. For transfers, we use 1 ECTS corresponding to 25 hours of workload. Each of the four study programs converts credit points across the curriculum into ECTS. However, even though the curricula of the four study programs have the same total credits (more than 144 credits), the total ECTS is different (Table 1.16). The credit allocation for each course is based on the breadth and depth of the course which also shows the course's contribution to the achievement of LO. The higher the credit 30 points, the greater the module's contribution to LO achievement. In the four study programs, credits for courses range from 1 to 6 with the majority of modules being given 3 credits and only the Final Project (thesis) being given 6 credits, this shows that the final project makes a greater contribution to the achievement of LO than other courses (Appendix 1.21). Students have the opportunity to increase their experience and skills through activities outside the study program, or even outside the university through the MBKM program. All activities, including practicum intervals are given credit through conversion to related modules within the curriculum.

Structure Curriculum

ECTS

No	Name of Course	Code of Course	Lecture (Face to Face) (SCU)	Number of lecture per Semester	Practical (at Laboratory or filed) (SCU)	Number of Practical Per Semester	Total Hours Lecture (Face to Face) Per Semester	Hours of Midterm And Final Exam Per Semester	Total Hours Practical	Total Hours of Structure and Self Study Per semester	Lecture (ECTS)	Practical (ECTS)	Total ECTS
SEMESTER I													
1	Indonesian	NAS 6013203	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
2	Arabic	UIN 6021204	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
3	Islamic Studies	UIN 6032201	4	14			46,67	3,00	0,00	74,66666667	4,44	0,00	4,44
4	Basic Biology	FST 6095101	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
5	Practicum Basic Biology	FST 6095102	0	0	1	14	0,00	3,00	35,00	23,33333333	0,00	2,19	2,19
6	Calculus	FST 6094125	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
7	Basic Chemistry	FST 6096201	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
8	Practicum Basic Chemistry II	FST 6096202	0	0	1	14	0,00	3,00	35,00	23,33333333	0,00	2,19	2,19
9	Basic Physics	FST 6097101	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
8	Total SCU		20					TOTAL ECTS FOR SEMESTER 1 THAT IS EQUALTO 23 SCU =					25,96
SEMESTER II													
1	English	UIN 6014203	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
2	Laboratory Technique	FST 6095105	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
3	Plant Structure and Development	FST 6095107	3	14			35,00	3,00	0,00	70	3,86	0,00	3,86

No	Name of Course	Code of Course	Lecture (Face to Face) (SCU)	Number of lecture per Semester	Practical (at Laboratory or filed) (SCU)	Number of Practical Per Semester	Total Hours Lecture (Face to Face) Per Semester	Hours of Midterm And Final Exam Per Semester	Total Hours Practical	Total Hours of Structure and Self Study Per semester	Lecture (ECTS)	Practical (ECTS)	Total ECTS
4	Practicum Plant Structure and Development	FST 6095108	0	0	1	14	0,00	3,00	35,00	23,333333	0,00	2,19	2,19
5	Animal Systematics	FST 6095111	2	14			23,33	3,00	0,00	46,666666	2,61	0,00	2,61
6	Practicum Animal Systematics	FST 6095112	0	0	1	14	0,00	3,00	35,00	23,333333	0,00	2,19	2,19
7	Pancasila and Civic Education	NAS 6112201	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
8	Cell Biology	FST 6095124	2	14			23,33	3,00	0,00	46,666666	2,61	0,00	2,61
9	Introduction to Information and Communications Technology	FST 6091101	2	14			23,33	3,00	0,00	37,333333	2,27	0,00	2,27
10	Practicum Qira'ah and Worship	UIN 6033205	2	14	0	0	23,33	3,00	0,00	56	2,94	0,00	2,94
Total SCU			21					TOTAL ECTS FOR SEMESTER 2 THAT IS EQUAL TO 23 SCU =					27,99
SEMESTER III													
1	Basic Ecology	FST 6095103	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
2	Practicum Basic Ecology	FST 6095103	0	0	1	14	0,00	3,00	35,00	18,666666	0,00	2,02	2,02
3	Genetics	FST 6095104	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
4	Praktikum Genetics	FST 6095105	0	0	1	14	0,00	3,00	35,00	18,666666	0,00	2,02	2,02
5	Basic Microbiology	FST 6096114	2	14			23,33	3,00	0,00	37,333333	2,27	0,00	2,27
6	Practicum Basic Microbiology	FST 6096115	0	0	1	14	0,00	3,00	35,00	18,666666	0,00	2,02	2,02
7	Plant Systematics	FST 6096116	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
8	Practicum Plant Systematics	FST 6096117	0	0	1	14	0,00	3,00	35,00	18,666666	0,00	2,02	2,02
9	Animal Structure and Development	FST 6096110	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
10	Practicum Animal Structure and Development	FST 6096111	0	0	1	14	0,00	3,00	35,00	18,666666	0,00	2,02	2,02

No	Name of Course	Code of Course	Lecture (Face to Face) (SCU)	Number of lecture per Semester	Practical (at Laboratory or filed) (SCU)	Number of Practical Per Semester	Total Hours Lecture (Face to Face) Per Semester	Hours of Midterm And Final Exam Per Semester	Total Hours Practical	Total Hours of Structure and Self Study Per semester	Lecture (ECTS)	Practical (ECTS)	Total ECTS
11	Biochemistry	FST 6096225	2	14			23,33	3,00	0,00	37,33333333	2,27	0,00	2,27
12	Practicum Biochemistry	FST 6096226	0	0	1	14	0,00	3,00	35,00	18,66666667	0,00	2,02	2,02
Total SCU			22					TOTAL ECTS FOR SEMESTER 3 THAT IS EQUAL TO 22 SCU =					30,12
SEMESTER IV													
1	Elementary Statistics	FST 6094106	3	14			35,00	3,00	0,00	70	3,86	0,00	3,86
2	Conservation Biology	FST 6095112	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
3	Microbial Physiology	FST 6095113	2	14			23,33	3,00	0,00	46,66666667	2,61	0,00	2,61
4	Animal Physiology	FST 6095114	3	14			35,00	3,00	0,00	70	3,86	0,00	3,86
5	Practicum Animal Physiology	FST6095115	0	0	1	14	0,00	3,00	35,00	23,33333333	0,00	2,19	2,19
6	Plant Physiology	FST 6095116	3	14			35,00	3,00	0,00	70	3,86	0,00	3,86
7	Practicum Plant Physiology	FST 6095117	0	0	1	14	0,00	3,00	35,00	23,33333333	0,00	2,19	2,19
8	Islam and Science	UIN 6032202	3	14			35,00	3,00	0,00	56	3,36	0,00	3,36
Mandatory Course			18										
Electives			4										
1	Ornithology	FST 6095202	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
2	Bacteriology	FST 6095204	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
3	Phycology	FST 6095205	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
4	Terrestrial Ecology	FST 6095207	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
5	Urban Entomology	FST 6095208	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
6	Islamic Phylosophy	FL8011	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
7	Science Phylosophy	FL4061	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94

No	Name of Course	Code of Course	Lecture (Face to Face) (SCU)	Number of lecture per Semester	Practical (at Laboratory or filed) (SCU)	Number of Practical Per Semester	Total Hours Lecture (Face to Face) Per Semester	Hours of Midterm And Final Exam Per Semester	Total Hours Practical	Total Hours of Structure and Self Study Per semester	Lecture (ECTS)	Practical (ECTS)	Total ECTS
Total SCU			22					TOTAL ECTS FOR SEMESTER 4 THAT IS EQUAL TO 23 SCU =					30,40
SEMESTER V													
1	Molecular Biology	FST 6095118	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
2	Practicum Molecular Biology	FST 6095119	0	0	1	14	0,00	3,00	35,00	28	0,00	2,36	2,36
3	Natural Resource and Management	FST 6095120	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
4	Principles of Biotechnology	FST 6095121	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
5	Chemical Environment	FST 6096251	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
6	Practicum Chemical Environment	FST 6096252	0	0	1	14	0,00	3,00	35,00	28	0,00	2,36	2,36
7	Research Methodology	UIN 6000208	3	14			35,00	3,00	0,00	70	3,86	0,00	3,86
Mandatory Course			13							0			20,33
Electives			8							0			
1	Plant Tissue Cultur	FST 6095209	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
2	Aquatic Ecology	FST 6095210	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
3	Mycology	FST 6095211	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
4	Ethology	FST 6095212	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
5	Secondary Metabolism	FST 6095213	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
6	Mammology	FST 6095214	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
7	Palynology	FST 6095215	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
8	Population Genetics	FST 6095216	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
9	Herpetology	FST6095217	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94

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10	Ecotourism	FST6095218	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
			21										11,76
	Total SCU							TOTAL ECTS FOR SEMESTER 5 THAT IS EQUAL TO 21 SCU =					32,10
SEMESTER VI													
1	Evolution	FST 6095122	2	14			23,33	3,00	0,00	46,6666667	2,61	0,00	2,61
2	Introduction to Bioinformatics	FST 6095123	2	14			23,33	3,00	0,00	46,6666667	2,61	0,00	2,61
3	Scientific Communication Techniques	FST 6095124	2	14			23,33	3,00	0,00	46,6666667	2,61	0,00	2,61
4	Internship (PKL)	UIN 6000207	4	22			0,00	0,00	0,00	154	5,50	0,00	5,50
	Mandatory Course		10							0			13,32
	Electives		10							0			
5	Food Microbiology	FST 6095219	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
6	Parasitology	FST 6095220	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
7	Plant Ecophysiology	FST 6095221	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
8	Landscape Ecology	FST 6095222	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
9	Ethnobotany	FST 6095223	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
10	Embryology	FST 6095224	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
11	Waste Treatment	FST 6095225	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
12	Environmental Biotechnology	FST 6095226	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
13	Plant Biotechnology	FST 6095227	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94

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14	Introduction to Environmental Impact Analysis	FST6095228	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
15	Immunology	FST6095229	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
16	Halal Food	FST6095230	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
17	Malacology	FST6095231	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
18	Primatology	FST6095232	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
19	Biology Strategy and Learning	FTK6017150	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
20	Biology Learning Media and Technology	FTK6017153	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
21	Evaluation of Biology Learning	FTK6017155	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
22													
23													14,70
	Total SCU		20					TOTAL ECTS FOR SEMESTER 6 THAT IS EQUAL TO 21 SCU =					28,02
SEMESTER VII													
1	Bioethics	FST6095125	2	14			23,33	3,00	0,00	46,6666667	2,61	0,00	2,61
2	Technopreneurship	FST6092035	2	14			23,33	3,00	0,00	46,6666667	2,61	0,00	2,61
3	Community Service Program	UIN6000206	4	24			0,00	0,00	0,00	154	5,50	0,00	5,50
4	Proposal Seminar	FST6095126	1	22			0,00	0,00	0,00	55	1,96	0,00	1,96
	Mandatory Course		9							0			12,68
	Electives		6							0			
4	Industrial Microbiology	FST6095233	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
5	Phytopathology	FST6095235	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
6	Plant Breeding	FST6095235	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94

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7	Environmental Toxicology	FST6095237	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
8	Biomaterials and Nanotechnology	FST6095238	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
9	Genetical Modified	FST6095239	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
10	Ichthyology	FST6095242	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
11	Marine Biology	FST6095244	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
12	Virology	FST6095240	2	14			23,33	3,00	0,00	56	2,94	0,00	2,94
													8,82
	Total SCU		15					TOTAL ECTS FOR SEMESTER 7 THAT IS EQUAL TO 8 SCU =					21,50
SEMESTER VIII													
1	Final Project (Thesis)	UIN 6000312	6	30			0,00	0,00	0,00	330	11,79	0,00	11,79
2	Seminar	UIN 6000313	1	30			0,00	0,00	0,00	55	1,96	0,00	1,96
	Total SCU		7					TOTAL ECTS FOR SEMESTER 8 THAT IS EQUAL TO 7 SCU =					13,75
								Total Credits (SKS or SCU) for Completion of Bachelor Program					148,0
			148					Total Credits (ECTS) for Completion of Bachelor Program					209,85

Curriculum Map of Biology Study Program

