SNPT 2021 CURRICULUM (SFD MBKM) CURRICULUM STRUCTURE AND DISTRIBUTION OF COURSES PER SEMESTER BIOLOGY STUDY PROGRAM,

Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta

TABLE 1. GROUP OF COURSES AND SNPT 2021 CURRICULUM CREDIT (SFD MBKM)

No	Courses Group	Credit
1.	National's Courses	8
2.	University and Faculty's Courses	11
3.	Basic Skills Compulsory Courses from Biology Study Program	88
4.	Study Program Elective Courses	17
5.	Independent Learning Activities Courses (MBKM)	20
	Total	144

TABLE 2. STRUCTURE OF SNPT 2021 CURRICULUM (SFD MBKM)

						SE	ME	STE	R		
No	Course Code	Course Name	Credit	1	2	3	4	5	6	7	8
A. N	National's Course	es									
1	00051023-53 00052033	Religious Education	2	2							
2	00051122	Pancasila Education	2	2							
3	00051142	Bahasa Indonesia	2	2							
4	00051112	Civic Education	2		2						
			8								
B. L	Iniversity and Fa	culty's Courses		1	2	3	4	5	6	7	8
5	30051121	Olympism	1	1							
6	00053182	Education Insights	2		2						
7	KM 02072	Big Data and Programming	2			2					
8	30055012	Thesis Proposal Seminar	2							2	
9	30054024	Thesis	4								4
			11								
C.	Basic Skills Com	pulsory Courses from Biology Study Program		1	2	3	4	5	6	7	8
10	34250862	English for Biology	2		2						
11	34251632	General Biology	3	3							
12	34251641	Practicum of General Biology	1	1							
13	32251012	General Physics	2	2							
14	32251021	Practicum of General Physics	1	1							
15	34251612	Health and Safety of Biological Laboratory	2	2							
16	34251652	General Chemistry	2	2							
17	34251661	Practicum of General Chemistry	1	1							
18	34250093	Basic Mathematics	3	3							
19	34251673	Biochemistry and Organic Chemistry	3		3						
20	34251681	Practicum of Biochemistry and Organic Chemistry	1		1						
21	34251693	Structure and Development of Animals	3		3						

C. Ba	sic Skills Compu	Ilsory Courses from Biology Study Program		1	2	3	4	5	6	7	8
22	34251701	Practicum of Structure and Development of	_		_						
		Animals	1		2						
23	34251713	Structure and Development of Plants	3		3						
24	34251721	Practicum of Structure and Development of	1		1						
		Plants									
25	34251732	Biodiversity and Systematics of Cryptogam	2			2					
26	34251741	Practicum of Biodiversity and Systematics of	1			1					
		Cryptogam									
27	34251752	Biodiversity and Systematics of Invertebrates	2			2					
28	34251761	Practicum of Biodiversity and Systematics of	1			1					
		Invertebrates								_	
29	34250603	Cell Biology	3			3					
30	34250013	Environmental Science	3			3				_	_
31	34250142	Basic Statistics	2			2					
32	34251772	Biodiversity and Systematics of Phanerogam	2				2			_	
33	34251781	Practicum of Biodiversity and Systematics of	1				1				
2.4	24254042	Phanerogam					_			\dashv	\dashv
34	34251842	Biodiversity and Systematics of Vertebrates	2				2			_	_
35	34251851	Practicum of Biodiversity and Systematics of	1				1				
26	24251702	Vertebrates	3				2			\dashv	_
36	34251793	Genetics					3				
37	34251801	Practicum of Genetics	1 				2			_	_
38 39	34251822 34251831	General Microbiology Practicum of General Microbiology	1				1			\dashv	-
40	34251831	Biology Research Methodology	2				2			\dashv	\dashv
41	34251373	Biological Entrepreneurship	3				3			\dashv	\dashv
42	34251862	Molecular Biology	2				3	2		\dashv	\dashv
43	34251802	Practicum of Molecular Biology	1					1		\dashv	\dashv
44	34251893	Animal Physiology	3					3		\dashv	\dashv
45	34251901	Practicum of Animal Physiology	1					1		\dashv	\dashv
46	34251913	Plant Physiology	3					3		\dashv	\dashv
47	34251921	Practicum of Plant Physiology	1					1			-
48	34250812	Experimental Design	2					2			
49	34251873	Basic Ecology	3					_	3		
50	34251881	Practicum of Basic Ecology	1						1		
51	34250212	Evolution	2						2		
52	34251932	Plant Tissue Culture	2						2		
53	34251941	Practicum of Plant Tissue Culture	1						1		
54	34251952	Scientific Paper Writing Techniques	2						2		
55	34251092	Biotechnology	2						2		
		-									
D. Stu	ıdy Programme	Elective Courses		1	2	3	4	5	6	7	8
Areas	of Expertise an	d Supportive Courses									
D.1.	Areas of Anima	al Biology									
56	34251492	Animal Histology	2				2				
57	34251502	Animal Ethology	2			2					
58	34250822	Animal Bioethics	2			2					
59	34250512	Animal Microtechniques	2					2		_	_
60	34250482	Ornithology	2					2			

D. Stu	ıdy Programme	Elective Courses		1	2	3	4	5	6	7	8
61	34251972	Enzymology	2						2		
62	34251422	Biology of Animal Reproduction	2						2		
63	34252042	Animal Endocrinology	2						2		
64	34251172	Immunology	2						2		
65	34250262	Management of Experimental Animal	2						2		
66	34251992	Animal Endoparasitology	2						2		
67	34251192	Teratology	2							2	
68	34251432	Biotechnology of Animals	2							2	
69	34251982	Animal Ectoparasitology	2							2	
D.2	Areas of Plant	Biology									
70	34251523	Principles of Horticulture	3			3					
71	34252162	Phycology	2			2					
72	34252152	Bryology	2				2				
73	34250532	Economic Botany	2				2				
74	34250662	Pteridology	2				2				
75	34250682	Plants Microtechniques	2					2			
76	34251523	Plant Pathogenic Microbes	3					3			
77	34252242	Orchidology	2					2			
78	34252073	Plant Nutrition Science	3						3		
79	34250852	Plant Biotechnology	2						2		
80	34252122	Plant Secondary Metabolites	2						2		
81	34250721	Plant Ecology	2							2	
82	34252232	Phytoremediation	2							2	
83	34251553	Plant Reproduction and Breeding	3							3	
			21								
D.3		biology and Mycology									
84	34250462	Mycology	2			2					
85	34250842	Biosystematics of Microorganisms	2					2			
86	34251402	Biology of Yeast	2					2			
87	34250642	Environmental Microbiology	2					2			
88	34251382	Bacteriology	2						2		
89	34251533	Food and Industrial Microbiology	2						2		
90	34251393	Biodiversity of Fungi	3						3		
			15								
D.4		al Biology, Ecology, Multidiscipline									
91	34251412	Human Biology	2			2					
92	34251132	Human Nutrition and Health Science	2			2					
93	34250442	Environmental Impact Assessment	2					2			
94	34252132	Population Genetics	2					2			
95	34250772	Limnology	2					2			
96	34251102	Biogeography	2					2			
97	34252222	Urban Biodiversity	2					2		_	
98	34252172	Conservation Genetics	2						2		
99	34252063	Physiology of Marine Biota	3						2		
100	34252002	Conservation Biology	2						2		
101	34252113	Management of Natural and Environmental							3		
		Resources	3							_	
102	34252032	Geographic Information System	2							2	

D. St	tudy Programme	e Elective Courses		1	2	3	4	5	6	7	8
103	34250002	Marine Ecology	2							2	
104	34252103	Ecology of Tropical Forest	3							3	
105	34251462	Basics of Bioinformatics	2							2	
106	34251542	Proteomic	2							2	
107	34250282	English II	2							2	
	I		33							\forall	
E. In	dependent Lea	rning Activities Courses (MBKM)		1	2	3	4	5	6	7	
	Courses Extra-	Study Program									
108	KM 00563	Environmental Statistics	2						2		
	Courses Extra-	University (MBKM)									
109	KM 00543	Urban Farming	3						3		
110	KM 00302	Biodiversity and Ecosystem Conservation	3						3		
111	KM 00132	Ecotourism	2							2	
112	KM 00152	Ethnobiology	2							2	
113		Bioremediation of Agroindustry and Polluted	3							2	
		Waters	3								
114		Collection and Management of Biological								3	
		Specimens	3								
115		MBKM Permata Sakti / AMLI / MERDEKA	4							4	
			20								
	Internship										
116	KM-01126	Internship	6							6	
		Center for Research and Development of									
		Agricultural Biotechnology and Genetic									
		Resources (BB Biogen)								_	
		Center for Diagnostic Standart of Agricultural Quarantine (BBUSKP)									
		Indonesian Medicinal and Aromatic Crops									
		Research Institute (IMACRI)(BALITTRO)									
		Ornamental Plants Research Center (BALITHI)									
		Indonesian Food and Drug Authority (BPOM)									
		Fish Quarantine and Inspection Agency								\dashv	
		Agency for the Assessment and Application								\dashv	
		of Technology (BPPT)									
		National Nuclear Energy Agency of Indonesia							\neg	\forall	
		(BATAN)									
		Indonesian Tropical Fruits Research Institute								\exists	
		(ITFRI)(BALITBU)									
		Indonesia Institute of Sciences (LIPI)									
		20 Institutions in DKI and West Java									
		Province									
	Community Se									_	
		Thematic CSP	2							_	
		DLLABORATION WITH ANOTHER UNIVERSITY I INSTITUTION									
		LITM Passarch Project	4								
		UTM Research Project	4							_	_ 1

TABLE 2. COURSES DISTRIBUTION OF SNPT 2021 CURRICULUM (SFD MBKM) PER SEMESTER LIST OF COURSES IN THE FIRST SEMESTER

No	Course Code	Courses		Credit	Credit		
INU	Course Code	Courses	Theory	Practicum	Total	Status	
1	00051122	Pancasila Education	2	0	2	NC	
2	00051142	Bahasa Indonesia	2	0	2	NC	
3	30051121	Olympism	1	0	1	UFC	
4	34251632	General Biology	3	0	3	BPCC	
5	34251641	Practicum of General Biology	0	1	1	BPCC	
6	32251012	General Physics	2	0	2	BPCC	
7	32251021	Practicum of General Physics	0	1	1	BPCC	
8	34251512	Health and Safety of Biological Laboratory	2	0	2	ВРСС	
9	34251652	General Chemistry	2	0	2	BPCC	
10	34251661	Practicum of General Chemistry	0	1	1	BPCC	
11	34250093	Basic Mathematics	3	0	3	BPCC	
		Sum of Credit in the First Semester	17	3	20		

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE THIRD SEMESTER

No	Course Code	Courses		Courses				
NO	Course Code	Courses	Theory	Practicum	Total	Status		
1	00051023-53 00052033	Religious Education	2	0	2	NC		
2	00051112	Civic Education	2	0	2	NC		
3	00053182	Education Insights	2	0	2	UFC		
4	34250862	English for Biology	2	0	2	BPCC		
5	34251673	Biochemistry and Organic Chemistry	3	0	3	BPCC		
6	34251681	Practicum of Biochemistry and Organic Chemistry	0	1	1	ВРСС		
7	34251693	Structure and Development of Animals	3	0	3	BPCC		
8	34251701	Practicum of Structure and Development of Animals	0	1	1	ВРСС		
9	34251713	Structure and Development of Plants	3	0	3	BPCC		
10	34251721	Practicum of Structure and Development of Plants	0	1	1	ВРСС		
		Sum of Credit in the Second Semester	17	3	20			

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE THIRD SEMESTER

Nic	Causaa Cada	Comman		Credit	Chabus	
No	Course Code	Courses	Theory	Status	Total	Status
1	34250142	Basic Statistics	2	0	2	BPCC
	34250603	Cell Biology	3	0	3	BPCC
2	34251732	Biodiversity and Systematics of Cryptogam	2	0	2	ВРСС
3	34251741	Practicum of Biodiversity and Systematics of Cryptogam	0	1	1	ВРСС
4	34251752	Biodiversity and Systematics of Invertebrates	2	0	2	ВРСС
5	34251761	Practicum of Biodiversity and Systematics of Invertebrates	0	1	1	ВРСС
6	34250013	Environmental Science	3	0	3	BPCC
7	KM 02072	Big Data and Programming	2	0	2	UFC
8		Study Program Elective Courses	4	0	4	BPEC
		Sum of Credit in the Third Semester	18	2	20	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE FOURTH SEMESTER

No	Course Code	Courses		Credit		Status
NO	Course Code	Courses	Theory	Practicum	Total	Status
1	34251772	Biodiversity and Systematics of Phanerogam	2	0	2	BPCC
2	34251781	Practicum of Biodiversity and Systematics of Phanerogam	0	1	1	BPCC
3	34251842	Biodiversity and Systematics of Vertebrates	2	0	2	BPCC
4	34251851	Practicum of Biodiversity and Systematics of Vertebrates	0	1	1	BPCC
5	34251793	Genetics	3	0	3	BPCC
6	34251801	Practicum of Genetics	0	1	1	BPCC
7	34251822	General Microbiology	2	0	2	BPCC
8	34251831	Practicum of General Microbiology	0	1	1	BPCC
9	34251812	Biology Research Methodology	2	0	2	BPCC
10	34251373	Biological Entrepreneurship	3	0	3	BPCC
11		Study Program Elective Courses	2	0	2	BPEC
		Sum of Credit in the Fourth Semester	17	3	20	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE FIFTH SEMESTER

No	Course Code	Courses		Credit		Status
140	course coue	Courses	Theory	Practicum	Total	Status
1	34250812	Experimental Design	2	0	2	BPCC
2	34251862	Molecular Biology	2	0	2	BPCC
3	34252051	Practicum of Molecular Biology	0	1	1	BPCC
4	34251893	Animal Physiology	3	0	3	BPCC
5	34251901	Practicum of Animal Physiology	0	1	1	BPCC
6	34251913	Plant Physiology	3	0	3	BPCC
7	34251921	Practicum of Plant Physiology	0	1	1	BPCC
8		Study Program Flosting Courses (MPKM	7	0	7	BPEC /
0		Study Program Elective Courses/MBKM	/	U	,	MBKM
		Sum of Credit in the Fifth Semester	17	3	20	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE SIXTH SEMESTER

No	Course Code	Courses		Credit		Status
NO	Course code	Courses	Theory	Practicum	Total	Status
1	34251873	Basic Ecology	3	0	3	BPCC
2	34251881	Practicum of Basic Ecology	0	1	1	BPCC
3	34251932	Plant Tissue Culture	2	0	2	BPCC
4	34251941	Practicum of Plant Tissue Culture	0	1	1	BPCC
5	34251092	Biotechnology	2	0	2	BPCC
6	34250212	Evolution	2	0	2	BPCC
7	34251952	Scientific Paper Writing Techniques	2	0	2	BPCC
8		Study Program Elective	7	0	7	BPEC /
0		Courses/MBKM	/	U	/	MBKM
		Sum of Credit in the Sixth Semester	18	2	20	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE SEVENTH SEMESTER

No	Course Code	Courses		Credit		Status
NU	Course code	Courses	Theory	Practicum	Total	Status
1	KM-01126	Internship	0	6	6	MBKM
2	30052072	Thesis Proposal Seminar	2	0	2	UFC
3		Study Program Elective Courses/MBKM	12	0	12	BPEC / MBKM
		Sum of Credit in the Seventh Semester	10	6	20	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses

LIST OF COURSES IN THE EIGHTH SEMESTER

No	Course Code	Courses	Credit			Status
			Theory	Practicum	Total	Status
1		Thesis Result Seminar	0	0	0	UFC
2	30052004	Thesis	0	4	4	UFC
		Sum of Credit in the Eighth Semester	0	0	4	

Note:

NC = National Courses; UFC = University & Faculty Courses; BPCC = Biology Program Compulsory Courses; BPEC = Biology Program Elective Courses; MBKM = Independent Learning Activities Courses