

**APA COLLEGE OF ARTS AND SCIENCE, VAGAIKULAM
MANONMANIAM SUNDARANAR UNIVERSITY
BACHELOR OF BIOTECHNOLOGY**

CURRICULUM REGULATION – SEMESTER – I

S. No.	SUBJECT STATUS	SUBJECT CODE	SUBJECT TITLE	L	T	P	C
1.	Language	S1TL11	Tamil/ other languages	6	0	0	4
2.	Language	S2EN11	English	6	0	0	4
3.	Core-1	SMBT11	Basics of biodiversity and conservation	4	0	0	4
4.	Core-2	SMBT12	Cell biology and genetics	4	0	0	4
5.	Major Practical-I	SMBTP1	Lab in biodiversity conservation and cell biology	0	0	2	2
6.	Allied-I	SABT11	Biochemistry - I	4	0	0	3
7.	Allied Practical-I	SABTP1	Lab in Biochemistry - I	0	0	2	2
8.	Common	SEVS11	Environmental studies	2	0	0	2
TOTAL				26	0	4	25

CURRICULUM REGULATION – SEMESTER – II

S. No.	SUBJECT STATUS	SUBJECT CODE	SUBJECT TITLE	L	T	P	C
1.	Language	S1TL21	Tamil/ other languages	6	0	0	4
2.	Language	S2EN21	English	6	0	0	4
3.	Core-3	SMBT21	Instrumentation	4	0	0	4
4.	Core-4	SMBT22	Molecular biology	4	0	0	4
5.	Major Practical-II	SMBTP2	Lab in instrumentation and molecular biology	0	0	2	2
6.	Allied-II	SABT22	Biochemistry - II	4	0	0	3
7.	Allied Practical-II	SABTP2	Lab in Biochemistry - II	0	0	2	2
8.	Common	SVBE21	Social Value Education	2	0	0	2
TOTAL				26	0	4	25

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CURRICULUM REGULATION – SEMESTER – III

S. No.	SUBJECT STATUS	SUBJECT TITLE	L	T	P	C
1.	Language	Tamil/ other languages	6	0	0	4
2.	Language	English	6	0	0	4
3.	Core-5	Microbiology	4	0	0	4
4.	Major Practical-III	Lab in Microbiology	0	0	2	2
5.	Allied-III	Biophysics	4	0	0	3
6.	Allied Practical-III	Lab in Biophysics	0	0	2	2
7.	Skill based core-I	Floriculture (or) Vermi and mushroom culture	4	0	0	4
8.	Non major elective	Nutritional biotechnology (or) Vector borne diseases	2	0	0	2
TOTAL			26	0	4	25

CURRICULUM REGULATION – SEMESTER – IV

S. No.	SUBJECT STATUS	SUBJECT TITLE	L	T	P	C
1.	Language	Tamil/ other languages	6	0	0	4
2.	Language	English	6	0	0	4
3.	Core-6	Immunology	4	0	0	4
4.	Major Practical-IV	Lab in Immunology	0	0	2	2
5.	Allied-IV	Biostatistics	4	0	0	3
6.	Allied Practical-IV	Lab in Biostatistics	0	0	2	2
7.	Skill based core-II	Personality Development/Yoga	4	0	0	4
8.	Non major elective	Genetic diseases (or) Cancer biology	2	0	0	2
9.	Extension activity	NCC, NSS, YRC, YWF	0	0	0	1
TOTAL			26	0	4	26

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CURRICULUM REGULATION – SEMESTER – V

S. No.	SUBJECT STATUS	SUBJECT TITLE	L	T	P	C
1.	Core-7	Genetic Engineering	5	0	0	4
2.	Core-8	Plant Biotechnology	5	0	0	4
3.	Elective	Basic bioinformatics (or) Nanobiotechnology (or) Genomics	5	0	0	4
4.	Elective	Clinical Research (or) Biosafety & Bioethics (or) Developmental Biology	5	0	0	4
5.	Major practical V	Lab in Genetic engineering	0	0	4	2
6.	Major practical VI	Lab in Plant biotechnology	0	0	4	2
7.	Skill Based-III	Computer era	2	0	0	2
TOTAL			22	0	8	22

CURRICULUM REGULATION – SEMESTER – VI

S. No.	SUBJECT STATUS	SUBJECT TITLE	L	T	P	C
1.	Core-9	Animal biotechnology	5	0	0	4
2.	Core-10	Stem cell technology	5	0	0	4
3.	Core-11	Bioprocess technology	5	0	0	4
4.	Major practical VII	Lab in Animal biotechnology	0	0	3	2
5.	Major practical VIII	Lab in Stem cell technology	0	0	2	2
6.	Major practical IX	Lab in Bioprocess technology 3	0	0	3	2
7.		Project - Group			7	6
TOTAL			15	0	15	24