

**Biotechnology (application-oriented course)**

Sem	No	Course	Code	Credits	Theories	Practice	BB/TC
1	1	Philosophy	ML06001	3	3	0	BB
1	2	English	SN06003	2	2	0	BB
1	3	Research Methods on biotechnology	SH06004	2	2	0	
1	4	Advanced Cell Biology	SH06005	2	2	0	BB
1,2	5	Internship	SH07039	2	0	2	BB
1,2	6	Applied microbial biotechnology	SH06052	2	2	0	BB
1,2	7	Applied Bioinformatics	SH06040	2	1	1	BB
1,2	8	Applied Genetic Engineering	SH06010	2	2	0	BB
1,2	9	Applied Molecular Breeding	SH06055	2	2	0	BB
1,2	10	Seminar in Biotechnology	SH06012	2	2	0	BB
2	11	Statistics in biotechnology	SH06013	2	1.5	0.5	BB
2,3	12	Plant cell and tissue culture technology Applications	SH07023	2	2	0	BB
2,3	13	Fermentation Technology	SH07017	2	2	0	BB
2	14	Biotechnology in livestock breeding and aquaculture	SH07032	2	2	0	BB
2,3	15	Practice biotechnology	SH07038	1	0	1	BB
2,3	16	Environmental microbiology	SH07014	2	2	0	TC
2,3	17	Nanobiotechnology	SH07019	2	2	0	TC
2,3	18	Applied Molecular Breeding	SH07036	2	2	0	TC
2,3	19	Biotechnology in plant protection	SH07065	2	2	0	TC
2,3	20	Yeast biotechnology	SH07018	2	2	0	TC
2,3	21	Modification of genetic metabolism technology	SH07033	2	2	0	TC
2,3	22	Hi-tech in crop production	SH07027	2	2	0	TC
2,3	23	Management, commercialize and intellectual property in biotechnology	SH07028	2	2	0	TC
2,3	24	Animal Cell Culture and Cryopreservation	SH07030	2	2	0	TC

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2,3	25	Biotechnology of Vaccine and bioproducts	TY07028	2	2	0	TC
2,3	26	Project on Biotechnology	SH07063	2	0	2	TC
2,3	27	Food microbiology	SH07016	2	2	0	TC
2,3	28	Plant molecular pathology	SH07022	2	2	0	TC
2,3	29	Molecular Evolution	SH07024	2	2	0	TC
2,4	30	Molecular mechanism of plant stress tolerance	SH07025	2	2	0	
2,3	31	Advanced reproductive biotechnology in livestock	TY06014	2	2	0	TC
2,3	32	Applied Biomedical Technology	SH07031	2	2	0	TC
2,3	33	Biotechnology equipments and Laboratory	SH06054	2	1	1	TC
2,3	34	Advanced Leadership and Decision Making Skills	KT07069	2	2	0	TC
3,4	35	Master's thesis	SH07996	2	0	12	BB

Note BB: Compulsory; TC: Elective