Syllabus titles for MSc Integreated Biotechnology Programmes as per approved format of faculty meeting held on 30/03/2017 and subsequent Board of Studies meeting on 3/4/2017

Type of course	Course Code	Name of Course	T/P	Credit	Exam Durati on	Component of Marks											
						Internal Total/Pas sing	External Total/Pas sing	Total Total/Pas sing									
									Semester - I								
									Core - 1	PS01CIGB21	Chemistry of Life	T	4	3 hrs	30/10	70/28	100/40
PS01CIGB22	Practicals based on PS01CIGB21	P	2	2 hrs	-	50/20	50/20										
Core - 2	PS01CIGB23	Plant and Animal Sciences(Group A)	T	4	3 hrs	30/10	70/28	100/40									
	PS01CIGB24	Practicals based on PS01CIGB23	P	2	2 hrs	-	50/20	50/20									
	PS01CIGB25	Biomathematics (For Group B)	T	4	3 hrs	30/10	70/28	100/40									
	PS01CIGB26	Practicals based on PS01CIGB25	P	2	2 hrs	-	50/20	50/20									
Core - 3	PS01CIGB27	Microbiology	Т	4	3 hrs	30/10	70/28	100/40									
	PS01CIGB28	Practicals based on PS01CIGB27	Р	2	2 hrs	-	50/20	50/20									
Ability Enhancement	PS01AIGB21	English I (Soft Skill Comunication)	T	2	2 hrs	15/05	35/14	50/20									
Skill Enhancement	PS01SIGB21	Fundamentals of Laboratory Practices	Р	2	2 hrs	-	50/20	50/20									
	Total Credit			22													
Semester - II																	
Core - 1	PS02CIGB21	Cell Biology	Т	4	3 hrs	30/10	70/28	100/40									
	PS02CIGB22	Practicals based on PS02CIGB21	Р	2	2 hrs	-	50/20	50/20									
Core - 2	PS02CIGB23	Biochemistry	Т	4	3 hrs	30/10	70/28	100/40									
	PS02CIGB24	Practicals based on PS02CIGB23	P	2	2 hrs	-	50/20	50/20									
Core - 3	PS02CIGB25	Bio Physics	Т	4	3 hrs	30/10	70/28	100/40									
	PS02CIGB26	Practicals based on PS02CIGB25	Р	2	2 hrs	-	50/20	50/20									
Ability Enhancement	PS02AIGB21	English II (Soft Skill Communication)	T	2	2 hrs	15/05	35/14	50/20									
Skill Enhancement	PS02SIGB21	Environmentasi Science	Т	. 2	2 hrs	15/05	35/14	50/20									
	Total Credit			22													
Semester - III																	
Core 1 - Paper - I	PS03CIGB21	Plant Physiology	Т	4	3 hrs	30/10	70/28	100/40									
	PS03CIGB22	Practicals based on PS03CIGB21	Р	2	2 hrs	-	50/20	50/20									
Core 1 - Paper - II	PS03CIGB23	Animal Physiology	T	4	3 hrs	30/10	70/28	100/40									
	PS03CIGB24	Practicals based on PS03CIGB23	Р	2	2 hrs	-	50/20	50/20									
Core 2 - Paper - I	PS03CIGB25	Gene organization, Replication and Repair	T	4	3 hrs	30/10	70/28	100/40									
	PS03CIGB26	Practicals based on PS03CIGB25	Р	2	2 hrs	-	50/20	50/20									

	PS03CIGB27	Virology	Т	4	3 hrs	30/10	70/28	100/40
Core 2 - Paper - II	PS03CIGB27	Practicals based on PS03CIGB27	Р	2	2 hrs	-	50/20	50/20
(1.11% - F-1		Computer in Biology	Т	2	2 hrs	15/05	35/14	50/20
Ability Enhancement	PS03SIGB21 (T)	Microbial QC in food and Pharma Industry	Т	2	2 hrs	15/05	35/14	50/20
Skill Enhancement	Total Credit	Wilciobiai de in 1000 and 1		28				
	Total Credit							
Semester - IV						22/12	70/20	100/40
Core 1 - Paper - I	PS04CIGB21	Plant Tissue Culture	T	4	3 hrs	30/10	70/28	100/40
	PS04CIGB22	Practicals based on PS04CIGB21	P	2	2 hrs	-	50/20	50/20
	PS04CIGB23	Animal Cell Culture	T	4	3 hrs	30/10	70/28	100/40
Core 1 - Paper - II	PS04CIGB24	Practicals based on PS04CIGB23	P	2	2 hrs	-	50/20	50/20
	PS04CIGB25	Gene Expression and Regulation	T	4	3 hrs	30/10	70/28	100/40
Core 2 - Paper - I	PS04CIGB26	Practicals based on PS04CIGB25	P	2	2 hrs	-	50/20	50/20
	PS04CIGB27	Developmental Biology	T	4	3 hrs	30/10	70/28	100/40
Core 2 - Paper - II	PS04CIGB28	Practicals based on PS04CIGB27	P	2	2 hrs	-	50/20	50/20
Ability Enhancement	PS04AIGB21	Bioinstrumentation	T	2	2 hrs	15/05	35/14	50/20
Skill Enhancement	PS04SIGB21	Enterpreneurship Development	Т	2	2 hrs	15/05	35/14	50/20
Skill Elillancement	Total Credit			28				
Semester - V								
Core 1 - Paper - I	PS05CIGB21	Immunology	T	4	3 hrs	30/10	70/28	100/40
	PS05CIGB22	Practicals based on PS05CIGB21	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - II	PS05CIGB23	Genetics - I	T	4	3 hrs	30/10	70/28	100/40
	PS05CIGB24	Practicals based on PS05CIGB23	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - III	PS05CIGB25	Genetic Engineering - I	T	4	3 hrs	30/10	70/28	100/40
	PS05CIGB26	Practicals based on PS05CIGB25	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - IV	PS05CIGB27	Fermentation Technology	T	4	3 hrs	30/10	70/28	100/40
(Discipline Specific Elective)	PS05CIGB28	Practicals based on PS05CIGB27	P	2	2 hrs	-	50/20	50/20
(Discipline Specific Elective)	Total Credit			24				
Semester - VI	10401010101							
	PS06CIGB21	Enzymology	Т	4	3 hrs	30/10	70/28	100/40
Core 1 - Paper - I	PS06CIGB22	Practicals based on PS06CIGB21	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - II	PS06CIGB23	Genetics - II	Т	4	3 hrs	30/10	70/28	100/40
	PS06CIGB24	Practicals based on PS06CIGB23	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - III	PS06CIGB25	Genetic Engineering - II	T	4	3 hrs	30/10	70/28	100/40
	PS06CIGB26	Practicals based on PS06CIGB25	P	2	2 hrs	-	50/20	50/20
Core 1 - Paper - IV	PS06CIGB27	Biostatistics	Т	4	3 hrs	30/10	70/28	100/40
(Discipline Specific Elective)	PS06CIGB28	Practicals based on PS06CIGB27	P	2	2 hrs	-	50/20	50/20
(Discipline Specific Elective)	Total Credit			24				

WC Head
WC Head
INC Head
In Heather of In
In Heather of I