M.Sc Biotechnology

Total credits: 98

Semester I

COURSE	PAPER	CREDITS
CODE		
PSBTTC101	Cell Biology	4
PSBTTC102	General & Applied Microbiology	4
PSBTTC103	Biochemistry & Metabolism	4
PSBTTC109	Molecular Biology	4
PSBTPC105	Laboratory course in General & Applied Microbiology and Cell Biology	4
PSBTPC106	Laboratory course in Biochemistry & Metabolism and Molecular Biology	4
TOTAL		24

Semester II

COURSE CODE	PAPER	CREDITS
CODE		
PSBTTC210	Genetic Engineering	4
PSBTTC202	Enzymology	4
PSBTTC211	Genetics and Genomics	4
PSBTTC204	Molecular Virology	2
PSBTTC205	Immunology	4
PSBTTC213	Research methodology and Scientific communications	1
PSBTPC206	Laboratory course in Genetic Engineering and Enzymology	4
PSBTPC212	Laboratory course in Genetics and Genomics and Immunology	4
TOTAL		27

Semester III

COURSE	PAPER	CREDITS
CODE		
PSBTTC301	Plant Biotechnology	4
PSBTTC302	Bioprocess Engineering	4
PSBTTC308	Bioinformatics & Biostatistics	2
PSBTTC304	IPRs, bioethics and entrepreneurship development	2
PSBTTC317	Nanotechnology in Biology	2
PSBTTC316	Project writing	1
PSBTPC312	Laboratory course in Plant Biotechnology	2
PSBTPC311	Laboratory course in Bioinformatics and Biostatistics	2
PSBTPC313	Laboratory course in Bioprocess Engineering	2
	MOOCs from SWAYAM	4
TOTAL		25

By the end of 3rd Semester students have to complete a 4 credit course from MOOCs platform

Semester IV

COURSE CODE	PAPER	CREDITS
PSBTDC406	Research Project+Project presentation+Viva- Voce+Dissertation	8
PSBTDC402	Journal Club	2
PSBTTC403	Animal Biotechnology	4
PSBTTC404	Environmental Biotechnology	4
	Open Course (from other department of the University)	4
TOTAL		22

Students will register for a minimum of 4 credits of course from other Departments of the University in semester 4

<u>Open courses offered by the School:</u> Techniques in Biotechnology to the 4th Semester students (4 credits)