

Sidho-Kanho-Birsha University

Syllabus for Postgraduate Department of Biotechnology

Brief Outline of the course structure

1st Semester	Core Courses	Theory	Practical	Credits24
MBITCCT101	Biochemistry	50		4
MBITCCT 102	Cell Biology and Molecular Biology	50		4
MBITCCT 103	Microbiology	50		4
MBITCCT 104	Bio-Instrumentation and Biophysical Chemistry	50		4
MBITCCS105	Biochemistry and Microbial techniques		50	4
MBITCCS106	Cell Biology and Molecular Biology		50	4
2 nd Semester	Core Courses	Theory	Practical	Credits 24
MBITCCT 201	Genetics and Biostatistics	50		4
MBITCCT 202	Metabolism and Recombinant DNA technology	50		4
MBITCCT 203	Evolution, behavior, Cognition, Diversity of Life and Environmental Biotechnology	50	-	4
MBITCCT204	Immunology	50		4
MBITCCS205	Genetics, Biostatistics and Metabolism Immunology		50	4
MBITCCS206	Recombinant DNA technology, Biodiversity and environmental biotechnology		50	4
3 rd Semester	Core Courses	Theory	Practical	Credits 24
MBITCCT 301	Genomics Proteomics & Protein Engineering	50		4
MBITCCT 302	Bioprocess Engineering and Microbial Technology, Entrepreneurship	50		4
MBITCCT 303	Bioinformatics and Computer Application	50		4

MBITCCS304	Genomics Proteomics and Protein Engineering, Bioprocess Engineering and Microbial Technology, Bioinformatics and Computer Application		50	4
	Choice Based Credit Courses			Credit 8
MBITOET 305	Open elective	50		4
MBITOPP306	Outreach	-	50	4

4thSemester	Core Courses	Theory	Practical	Credits 24
MBITCCT 401	IPR, Biosafety and Bioethics and Medical Biotechnology	50	-	4
MBITCCT 402	Plant and Animal Biotechnology	50		4
MBITCCS 403	Plant and Animal Biotechnology		50	4
MBITCEP404	Dissertation/ project	-	50	4
MBITCCS405	Seminar & Grand Viva/Industrial training	-	50	2+2
MBITACT 406	Add on	50	-	4