

**Master of Technology Program in  
Bioscience and Bioengineering**

Semester 1					Semester 2				
Cat.	Course		L-T-P	Credits	Cat.	Course		L-T-P	Credits
C	BB611	Introduction to Numerical methods and data analysis	3-0-3	4	C	BB620	Advanced Genetic engineering	3-0-0	3
C	BB612	Bioprocess & Fermentation Technology	3-1-0	4	C	BB621	Disease, Process, Diagnostic & Therapeutics	3-0-0	3
C	BB613	Biochemical Engineering	3-0-0	3	C	BB619	Bioinformatics & Computational Biology	3-0-0	3
E	E	Elective 1	3-0-0	3	E	E	Elective 2	3-0-0	3
C	BB614	Microbiology & diagnostic techniques-1	1-0-3	2	C	BB622	Biochemical & Computational techniques	1-0-3	2
C	BB615	Introduction to profession	0-0-0	0	C	BB616	Biosafety and IPR	0-0-0	0
<b>Total Credits</b>			<b>16</b>	<b>16</b>	<b>Total Credits</b>				<b>14</b>
Semester 3					Semester 4				
TH	BB698	Thesis		<b>15</b>	TH	BB699	Thesis		<b>15</b>
<b>Total Credits</b>				<b>15</b>	<b>Total Credits</b>				<b>15</b>
<b>GRAND Total Credits</b>									<b>60</b>

**Table 4:** Share of compulsory and Elective courses to be credited as part of the Proposed *M.Tech.* (Bioscience and Bioengineering) Program at IIT Jodhpur

Category	Course Category Title	Courses	Credits
C	Compulsory	8	24
E	Electives	2	6
TH	Thesis	2	30
<i>Total</i>			<b>60</b>

Elective courses for 1<sup>st</sup> and 2<sup>nd</sup> semester were decided based on course load on existing faculty members in respective semesters.

Semester 1-elective courses

Category	Courses	Course Category Title	L-T-P	Credits
E	BL758	Neuro Engineering Systems	3-0-0	3
E	BB627	Animal Biotechnology	3-0-0	3
E	BB628	Physiology & Neuroscience	3-0-0	3

Semester 2-elective courses

Category	Courses	Course Category Title	L-T-P	Credits
E	BB629	Environment biotechnology & Bioremediation	3-0-0	3
E	BB630	Bioimaging	3-0-0	3
E	BB631	Bioenergy systems Structure	3-0-0	3