

Department Name:Biotechnology Course BSc(Biotechnology)											
Level	SEM	Disciplinary Major Mandatory	DSE Electives	Minor	OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total	Exit Credit	Final Total Credits
4.5	I	2Cr(Th) Plant Science 4Cr(Th) Microbial Science			2Cr(Th)Introductory Biotechnology 2Cr(Th) Biotechnology for Environment and Agriculture	VSC - 2 Cr(Pr) Plant Science SEC - 2Cr (Pr) Microbial Science	AEC- 2Cr (Th) English I VEC- 2Cr (Th) Env. Education IKS- 2Cr (Th) Indian Traditional Biotech Knowledge System	CC - 2Cr (NSS,NCC,Fine arts, Yoga, Heath & Wellness, Yoga Education, Sports)	22		22
4.5	II	2Cr (Th) Animal Science 4Cr (Th) Biochemistry		2Cr (Th) Bioinstrumentation	2Cr(Th)Introductory Biotechnology 2Cr(Th) Biotechnology for Environment and Agriculture	VSC-2 Cr (Pr) Animal Science Lab SEC-2 Cr (Pr) Biochemistry and Bioinstrumentation Lab	AEC- 2Cr (Th) English II VEC- 2 Cr (Th + Pr) Computers in Biology and Lab	CC - 2Cr (NSS,NCC,Fine arts, Yoga, Heath & Wellness, Yoga Education, Sports)	22		22
<b>Cumulative</b>		<b>12</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>4</b>	<b>44</b>		<b>44</b>
<b>Certificate on Exit</b>											
5	III	3Cr ( Th)Cell Biology 2Cr (Th)Cell Biology Lab 3Cr (Th)Molecular Biology		2Cr( Th)Environmental Biotechnology 2Cr(P) Environmental Biotechnology Lab	2Cr(Th)Introductory Biotechnology 2Cr(Th) Biotechnology for Environment and Agriculture	VSC 2Cr(P) Molecular Biology Lab	AEC 2Cr(Th) Modern Indian Language I	2Cr FP1 CC - 2Cr (NSS,NCC,Fine arts, Yoga, Heath & Wellness, Yoga Education, Sports)	22		22
5	IV	4Cr(Th) Developmental Biology 2Cr (P) Developmental Biology Lab 2Cr(Th) Genetics		3Cr(Th) Bioanalytical Techniques 1 Cr(Th)Biodiversity and Systematics	2Cr(Th)Introductory Biotechnology 2Cr(Th) Biotechnology for Environment and Agriculture	SEC 2Cr(P) Bioanalytical Techniques Lab	AEC 2Cr(Th) Modern Indian Language II	2Cr CEP1 CC - 2Cr (NSS,NCC,Fine arts, Yoga, Heath & Wellness, Yoga Education, Sports)	22		22
<b>Cumulative</b>		<b>28</b>		<b>10</b>	<b>12</b>	<b>12</b>	<b>14</b>		<b>88</b>		<b>88</b>
<b>Diploma on Exit</b>											

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5.5	V	4Cr(Th) Plant and Animal Tissue Culture 4Cr(Th)Recombinant DNA Technology 2Cr(P)Recombinant DNA Technology Lab	2Cr (Th)Microbial Biotechnology 2Cr(P) Microbial Biotechnology Lab	2Cr(Th) Immunology 2Cr (P) Immunology Lab		VSC- 2Cr(P) Plant and Animal Tissue Culture Lab			22		22
5.5	VI	4Cr (Th)Industrial Microbiology 2Cr(P) Industrial Microbiology Lab  2Cr(Th)Applied Biotechnology (IKS Based Major) 2Cr(Th)Biotechnology: The India Perspective	2Cr( Th) Biostatistics and Bioinformatics 2Cr(P) Biostatistics and Bioinformatics Lab	2Cr(Th) Enzyme Biotechnology 2Cr(P)Enzyme Biotechnology Lab				2Cr FP/CEP 4Cr OJT	22		22
<b>Cumulative</b>		<b>48</b>	<b>8</b>	<b>18</b>	<b>12</b>	<b>14</b>	<b>14</b>	<b>18</b>	<b>132</b>		<b>132</b>
<u>Award Degree B.Sc( Biotechnology)</u>											
6	VII	2Cr(Th) Nanobiotechnology  2Cr(P)Nanobiotechnology Lab 4Cr(Th)Introduction to Omics approaches 2Cr(Th) Advanced Instrumentation	4Cr (Th) Biotechnology and One Health Approach	2Cr(Th)Research Methodology and Scientific Communication 2Cr(P) Research Methodology and Scientific Communication Lab				4 Cr Research Project	22		
6	VIII	4Cr(Th) Metabolic Engineering 4Cr(Th) Genome Editing 2 Cr (Th) Data Science and Machine Learning in Biotechnology	4 Cr Formulation of Research Proposal					4 Cr Research Project	22		
<b>Cumulative</b>		<b>68</b>	<b>16</b>	<b>22</b>	<b>12</b>	<b>14</b>	<b>14</b>	<b>30</b>	<b>176</b>		<b>176</b>
<b>Four Year UG (Honors with research) Degree</b>											