

## Department of Life Science: Syllabus

### Semester-I

No. of Credits = 19

Code	Type	Title	Credits	Hours
LST-401	Core-1	Biological Macromolecules	3	3
LST-402	Core-2	Tools and Techniques in Biology	3	3
LST-403	Core-3	Genetics	3	3
LST-404	Core-4	Cell Biology and Microbiology	3	3
LST-405	Soft Core-5	Enzymology	3	3
LSL-406	SEC-1	Cell and Microbiology	2	4
LSL-407	SEC-2	Tools and Techniques	2	4
<b>Total</b>			<b>19</b>	<b>23</b>

### Semester-II

No. of credits = 18

Code	Type	Title	Credits	Hours
LST-408	Core-5	Molecular Biology	3	3
LST-409	Core-6	Immunology	3	3
LST-410	Core-7	Genetic engineering	3	3
LST-411	Core-8	Ecology and Evolutionary Biology	3	3
LST-412	Open elective	Biofuels	2	2
LSL-413	SEC-3	Molecular Biology/Bioinformatics/Genetic Engineering	2	4
LSL-414	SEC-4	Immunology and Ecology	2	4
<b>Total</b>			<b>18</b>	<b>23</b>

### Semester-III

No. of credits = 18

Code	Type	Title	Credits	Hours
LST-501	Core-9	Plant Physiology/Animal Physiology	3	3
LST-502	Core-10	Plant Cell Culture and Tissue Engineering/ Animal Cell Culture and Tissue Engineering	3	3
LST-503	Core-11	Plant Systematics/Animal Systematics	3	3
LST-504	Core-12	Plant Development Biology/ Animal Development Biology	3	3
LST-505	DSE-1	Recombinant Protein Drugs	2	2
LSL-506	SEC-5	Cell and Tissue Culture	2	4
LSL-507	SEC-6	Plant/Animal Anatomy	2	4
<b>Total</b>			<b>18</b>	<b>26</b>

### Semester-IV

No. of credits = 21

Code	Type	Title	Credits	Hours
LST-508	Core-13	Animal Reproduction/Transgenic Technology/ Molecular Plant Pathology	3	3
LST-509	Core-14	Plant Biotechnology/Animal Biotechnology	3	3
LST-510	Elective	Faculty Centric Elective	3	3
LSP-511	DSE-1	Project Work	12	24
<b>Total</b>			<b>21</b>	<b>33</b>

Total No. of Credits = 76

SEC-Skill Enhancement Course; DSE-Discipline Specific Elective