

COURSE STRUCTURE OF B.SC. LIFE SCIENCES

	CORE COURSE(12)	Ability Enhancement Compulsory Courses (2)	Skill Enhancement Courses (SEC) (2)	Discipline Elective DSE (4)	Specific
I	CC-Botany I	English communication			
	CC-Zoology I				
	CC-Chemistry I				
II	CC-Botany II	Environmental Science			
	CC-Zoology II				
	CC-Chemistry II				
III	CC-Botany III		SEC-I		
	CC-Zoology III				
	CC-Chemistry III				
IV	CC-Botany IV		SEC-II		
	CC-Zoology IV				
	CC-Chemistry IV				
V			SEC-III	DSE-Botany I	
				DSE- Zoology I	
				DSE-3 Chemistry I	
VI			SEC-IV	DSE-Botany II	
				DSE- Zoology II	
				DSE-3 Chemistry II	

DETAILS OF COURSES & CREDITS

Sr.no.	Subject	Credits		
		Theory	Practical	Total
Core Courses –Botany				
1.	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	4	2	6
2.	Plant Ecology and Taxonomy	4	2	6
3.	Plant Anatomy and Embryology	4	2	6
4.	Plant Physiology and Metabolism	4	2	6
Discipline Specific Electives-Botany (Any Two)				
1.	Cell and Molecular Biology	4	2	6
2.	Economic Botany and Biotechnology	4	2	6
3.	Bioanalytical Techniques and Biostatistics	4	2	6
4.	Bioinformatics	4	2	6
5.	Research Methodology	4	2	6
Core Courses-Zoology				
1.	Animal Diversity	4	2	6
2.	Comparative anatomy and Developmental Biology of Vertebrates	4	2	6
3.	Animal Physiology and Biochemistry	4	2	6
4.	Genetics and Evolutionary Biology	4	2	6
Discipline Specific Electives-Zoology (Any Two)				
1.	Applied Zoology	4	2	6
2.	Animal Biotechnology	4	2	6
3.	Immunology	4	2	6
4.	Reproductive Biology	4	2	6
Core Courses-Microbiology				
1.	Introduction to Microbiology and Microbial Diversity	4	2	6
2.	Bacteriology	4	2	6
3.	Microbial Genetics	4	2	6
4.	Medical Microbiology	4	2	6
Discipline Specific Electives-Microbiology (Any Two)				
1.	Industrial Microbiology	4	2	6

2.	Microbial Biotechnology	4	2	6
3.	Fermentation Technology	4	2	6
4.	Bioreactor Design	4	2	6
Ability Enhancement Compulsory Courses				
1.	Environmental Science	2	0	2
2.	English/MIL Communication	2	0	2
Skill Enhancement Course (Any four)				
	Botany			
1.	Biofertilizers	2	0	2
2.	Herbal Technology	2	0	2
3.	Intellectual Property Rights	2	0	2
	Zoology			
1.	Medical Diagnostics	2	0	2
2.	Public Health and Hygiene	2	0	2
	Microbiology			
1.	Microbial Quality Control in Food and Pharmaceutical Industries	2	0	2
2.	Microbial Diagnosis in Health Clinics	2	0	2
3.	Food Fermentation Techniques	2	0	2
4.	Microbiological Analysis of Air and Water	2	0	2

Scheme of B.Sc. Life Sciences under CBCS

SEMESTER	COURSE OPTED	COURSE NAME	Credits
I	Ability Enhancement Compulsory Course-I	English Communications/ Environmental Science	2
	Core Course Botany I	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	4
	Core Course Botany I Practical	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	2
	Core Course Zoology I	Biodiversity- Animals	4
	Core Course Zoology I Practical	Biodiversity- Animals	2
	Core course Chemistry I	Conceptual Organic Chemistry	4
	Core Course Chemistry I Practical	Conceptual Organic Chemistry	2

II	Ability Enhancement Compulsory Course-II	English Communications/ Environmental Science	2
	Core course Botany II	Plant Ecology and Taxonomy	4
	Core Course Botany -II Practical	Plant Ecology and Taxonomy	2
	Core Course Zoology II	Comparative Anatomy and Developmental Biology of Vertebrates	4
	Core Course Zoology II Practical	Comparative Anatomy and Developmental Biology of Vertebrates	2
	Core Course Chemistry II	Molecules of Life	4
	Core Course Chemistry II Practical	Molecules of Life	2

III	Core Course Botany III	Anatomy and Embryology of Angiosperm	4
	Core Course Botany III Practical	Anatomy and Embryology of Angiosperm	2
	Core Course Zoology III	Physiology and Biochemistry	4
	Core Course Zoology III Practical	Physiology and Biochemistry	2
	Core Course Chemistry III	Chemical Bonding	4
	Core Course Chemistry III Practical	Chemical Bonding	2

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V	Skill Enhancement Course-I	SEC-I	2
	Core Course Botany IV	Plant Physiology and Metabolism	4
	Core Course Botany IV Practical	Plant Physiology and Metabolism	2
	Core Course Zoology IV	Genetics and Evolutionary Biology	4
	Core Course Zoology IV Practical	Genetics and Evolutionary Biology	2
	Core Course Chemistry IV	Physical Chemistry fo the Biosciences	4
	Core Course Chemistry IV Practical	Physical Chemistry fo the Biosciences	2
	Skill Enhancement Course-II	SEC-II	2
	Discipline Specific Elective Botany -I	DSE Botany 1	4
	Discipline Specific Elective Botany –I Practical	DSE Botany 1	2
	Discipline Specific Elective Zoology –I	DSE Zoology I	4
	Discipline Specific Elective Zoology –I Practical	DSE Zoology I	2
	Discipline Specific Elective Chemistry –I	DSE Chemistry I	4
	Discipline Specific Elective Chemistry –I Practical	DSE Chemistry I	2
	Skill Enhancement Course -III	SEC-III	2

VI	Discipline Specific Elective Botany - II	DSE Botany II	4
	Discipline Specific Elective Botany – II Practical	DSE Botany II	2
	Discipline Specific Elective Zoology –II	DSE Zoology II	4
	Discipline Specific Elective Zoology –II Practical	DSE Zoology II	2
	Discipline Specific Elective Chemistry –III	DSE Chemistry II	4
	Discipline Specific Elective Chemistry –III Practical	DSE Chemistry II	2
	Skill Enhancement Course -IV	SEC-IV	2

Total: 120