

BS (4 Years) Zoology

Scheme of Studies for Eight Semesters (valid from November, 2012)

Course Title	Course Code	Course Hours
SEMESTER-I		
Islamiat / Ethics ISE	ISE-111	2
English-I (Language in Use)	ENG -111	3
Computer (Introduction and Applications)	COMP -111	3
Botany-I(Plant Diversity)	BOT -101	3
Botany Lab-I (Plant Diversity)	BOT -102	1
Zoology -I (Invertebrate Diversity)	ZOOL -101	3
Zoology Lab-I (Invertebrate Diversity)	ZOOL -102	1
Chemistry-I (Physical Chemistry)	CHEM-101	3
Chemistry Lab-I (Physical Chemistry)	CHEM-102	1
Semester's Total Credits		20
SEMESTER-II		
Pak Studies	PST -111	2
English-II (Academic Reading and Writing)	ENG -112	3
Elementary Mathematics-I (Algebra)	MATH-111	3
Botany-II (Plant Systematic Anatomy & Development Theory)	BOT-103	3
Botany Lab-II (Plant Systematic Anatomy & Development Theory)	BOT-104	1
Zoology -II (Chordate Diversity)	ZOOL -103	3
Zoology Lab-II (Chordate Diversity)	ZOOL -104	1
Chemistry-II (Inorganic Chemistry)	CHEM -103	3
Chemistry Lab-II (Inorganic Chemistry)	CHEM -104	1
Semester's Total Credits		20
SEMESTER-III		
English-III (Communication Skills)	ENG-211	3
Elementary Mathematics-II (Calculus)	MATH-211	3
Botany-III (Cell Biology, Genetics and Evolution)	BOT -201	3
Botany Lab-III (Cell Biology, Genetics and Evolution)	BOT -202	1
Zoology -III (Biochemistry)	ZOOL -201	3
Zoology Lab-III (Biochemistry)	ZOOL -202	1
Chemistry-III (Organic Chemistry)	CHEM-201	3
Chemistry Lab-III (Organic Chemistry)	CHEM-202	1
Semester's Total Credits		18
SEMESTER-IV		
English-IV (English for Practical Aims)	ENG-212	3
Introduction to Sociology	SOC-211	3
Botany-IV (Plant Physiology and Ecology)	BOT-203	3
Botany Lab-IV (Plant Physiology and Ecology)	BOT-204	1
Zoology -IV (Physiology)	ZOOL-203	3
Zoology Lab-IV (Physiology)	ZOOL-204	1
Chemistry-IV (General Chemistry)	CHEM-203	3
Chemistry Lab-IV (General Chemistry)	CHEM-204	1
Semester's Total Credits		18
SEMESTER-V		
Cell and Molecular Biology-II	ZOOL-301	3
Cell and Molecular Biology-II Lab	ZOOL-302	1
Biochemistry-II	ZOOL-303	3
Biochemistry-II Lab	ZOOL-304	1
Animal Physiology-II	ZOOL-305	3
Animal Physiology-II Lab	ZOOL-306	1
Biostatistics	ZOOL-307	2
Evolution	ZOOL-308	2
Evolution Lab	ZOOL-309	1
Semester's Total Credits		17

SEMESTER-VI		
Molecular Genetics-II	ZOOL-310	3
Molecular Genetics-II Lab	ZOOL-311	1
Analysis of Development	ZOOL-312	2
Analysis of Development Lab	ZOOL-313	1
Wildlife	ZOOL-314	2
Wildlife Lab	ZOOL-315	1
Environmental Biology	ZOOL-316	3
Environmental Biology Lab	ZOOL-317	1
Animal Behaviour	ZOOL-318	2
Animal Behaviour Lab	ZOOL-319	1
Semester's Total Credits		17
SEMESTER-VII		
Principle of Systematics	ZOOL-401	2
Lab. Principles of Systematics	ZOOL-402	1
Palaeontology	ZOOL-403	2
Lab. Palaeontology	ZOOL-404	1
Economic Zoology	ZOOL-405	2
Lab. Economic Zoology	ZOOL-406	1
ONE GROUP OF THE FOLLOWING THREE (OPTIONAL)		
Entomology (Morphology, Physiology of Insects)	ZOOL-411	2
Lab. Entomology (Morphology, Physiology of Insects)	ZOOL-412	1
Medical Entomology	ZOOL-413	2
Lab Medical Entomology	ZOOL-414	1
OR		
General Microbiology	ZOOL-415	2
Lab. General Microbiology	ZOOL-416	1
Applied Microbiology	ZOOL-417	2
Lab. Applied Microbiology	ZOOL-418	1
OR		
Techniques in Fisheries Research	ZOOL-421	2
Lab. Techniques in Fisheries Research	ZOOL-422	1
Environmental Biology of Fishes	ZOOL-423	2
Lab. Environmental Biology of Fishes	ZOOL-424	1
Semester's Total Credits		15
SEMESTER-VIII		
Biological Techniques	ZOOL-407	2
Lab. Biological Techniques	ZOOL-408	1
Zoogeography	ZOOL-409	2
Lab. Zoogeography	ZOOL-410	1
ONE GROUP OF THE FOLLOWING THREE (OPTIONAL)		
Integrated Pest Management	ZOOL-425	2
Lab. Integrated Pest Management	ZOOL-426	1
Classification of Insects	ZOOL-427	2
Lab. Classification of Insects	ZOOL-428	1
OR		
Bacteriology	ZOOL-429	2
Lab. Bacteriology	ZOOL-430	1
Environmental Microbiology	ZOOL-431	2
Lab. Environmental Microbiology	ZOOL-432	1
OR		
Advances in Aquaculture -I	ZOOL-433	2
Lab. Advances in Aquaculture -I	ZOOL-434	1
Advances in Aquaculture -II	ZOOL-435	2
Lab. Advances in Aquaculture -II	ZOOL-436	1
Semester's Total Credits		12

