



**SHAHEED BENAZIR BHUTTO WOMEN UNIVERSITY
PESHAWAR DEPARTMENT OF ZOOLOGY**

**SCHEME OF STUDIES FOR PHD ZOOLOGY
SESSION 2023 AND ONWARDS**

SEMESTER-I

Course Title	Course Codes	Theory	Practical	Credit hours
Core Course-I	ZOL-XXX	3	0	3
Core Course-II	ZOL-XXX	3	0	3
Elective Course-I	ZOL- XXX	3	0	3
Fehm-e-Quran I/any General course for Non-Muslim	ISL-325	0	1	1
Total credit hours				10

SEMESTER-II

Course Title	Course Codes	Theory	Practical	Credit hours
Core Course-III	ZOL- XXX	3	0	3
Elective Course-II	ZOL- XXX	3	0	3
Elective Course-III	ZOL- XXX	3	0	3
Fehm-e-Quran II/any General course for Non-Muslim	ISL-325	0	1	1
Total credit hours				10

Note: Courses will be selected with the respective course codes from the list of Core and Elective courses based on the availability of course instructors.

SEMESTER-III to VI

Course Title	Course Codes	Credit hours
Dissertation	ZOL-899	9
Total credit hours		9

Total Credit Hours: 10+10+9=29

**SCHEME OF STUDIES FOR M.Phil. ZOOLOGY SESSION: 2023
AND ONWARDS**

SEMESTER-I

Course Title	Course Codes	Theory	Practical	Credit hours
Core Course -I (Advanced biological techniques)	ZOL-727	3	0	3
Core Course-II	ZOL-XXX	3	0	3
Fehm-e-Quran I/any General course for Non-Muslim	ISL-325	0	1	1
Elective-I	ZOL- XXX	3	0	3
Elective-II	ZOL- XXX	3	0	3
Total credit hours				13

SEMESTER-II

Course Title	Course Codes	Theory	Practical	Credit hours
Core Course –III (Statistical Analysis)	STAT-702	2	1	3
Core Course-IV	ZOL- XXX	3	0	3
Fehm-e-Quran II/any General course for Non-Muslim	ISL-325	0	1	1
Elective-III	ZOL- XXX	3	0	3
Elective-IV	ZOL- XXX	3	0	3
Total credit hours				13

Note: Courses will be selected with the respective course codes from the list of Major and Elective courses based on the availability of course instructors.

SEMESTER-III and IV

Course Title	Course Codes	Credit hours
Dissertation	ZOL-799	6
Total credit hours		6

Total Credit Hours: 13+13+6=32

Semester 2	Expository Writing	ENG-304	Expository Writing	3	0	3
	Ideology and Constitution of Pakistan	PST-313	Ideology and Constitution of Pakistan	2	0	2
	Civics and Community Engagement	PSC-418	Civics and Community Engagement	2	0	2
	General course	ISL-325	Fehm-e-Quran II/any General course for Non-Muslim	0	1	1
	Social Sciences	XXX	Social Sciences	2	0	2
	Introduction to Entrepreneurship	MS-309	Introduction to Entrepreneurship	2	0	2
	Major-III	BCHM-302	Introductory Biochemistry	2	1	3
	Major-IV	ZOL-321	Diversity of Chordates	2	1	3
			Total			18
Semester 3	Quantitative Reasoning (QR I)	MTH-401	Quantitative Reasoning-I	3	0	3
	Application of Information and Communication Technologies	CSC-308	Application of Information and Communication Technologies	2	1	3
	General course	PST-323	Pakistan Studies	2	0	2
	Natural Sciences	XXX	Natural Sciences	2	1	3
	Major-V	BIT-311	Essentials of Genetics	2	1	3
	Major-VI	ZOL-444	Animal Form and Function-I	2	1	3
			Total			17
Semester 4	Quantitative Reasoning (QR II)	MTH-402	Quantitative Reasoning-II	3	0	3
	Interdisciplinary/Allied	CHM-300	General Chemistry	2	1	3
	Major-VII	BIT-413	Molecular Biology	2	1	3
	Major-VIII	ZOL-424	Evolution and Paleontology	3	0	3
	Major-IX	ZOL-425	Applied Zoology	2	1	3
	Major-X	ZOL-445	Animal Form and Function-II	2	1	3
			Total			18
Semester 5	Major-XI	ZOL-515	Animal Behavior	3	0	3
	Major-XII	MB-314	Bacteriology and Virology	2	1	3
	Major-XIII	MB-503	General Immunology	3	1	4
	Major-XIV	ZOL-555	Physiology	2	1	3
	Interdisciplinary/Allied-III	BI-401	Introduction to Bioinformatics	2	1	3
			Total			16
Semester 6	Major-XV	ZOL-521	Biological Techniques	3	0	3
	Major-XVI	ZOL-522	Research Planning and	3	0	3

			Report Writing			
	Major-XVII	ZOL-523	Animal Ecology	2	1	3
	Major-XVII	ZOL-525	Wildlife Conservation and Management	2	1	3
	Major-XIX	ZOL-528	Zoogeography	3	0	3
	Interdisciplinary/Allied-IV	BIT-301	Principles of Biotechnology	2	1	3
			Total			18
Semester 7	Internship (Mandatory)	ZOL-698	Internship/Field Experience	0	3	3
	Major-XX	ZOL-632	Principles of Animal Systematics	3	0	3
	Major-XXI	ZOL-633	Animal Reproductive Biology	2	1	3
	Major-XXII	ZOL-634	Entomology	2	1	3
	Major-XXIII (Elective)	ZOL-XXX	Elective-I	3	0	3
	Capstone Research Project	ZOL-699	Capstone Research Project	0	3	3
				Total Cr.Hrs.		
Semester 8	Major-XXIV	ZOL-641	Endocrinology	2	1	3
	Major-XXV	ZOL-642	Developmental Biology	3	0	3
	Major-XXVI	ZOL-643	Parasitology	2	1	3
	Major-XXVII (Elective)	ZOL-XXX	Elective-II	2	1	3
	Capstone Research Project	ZOL-699	Capstone Research Project	0	3	3
				Total Cr.Hrs.		

$$17+18+18+18+16+18+18+15=139$$