



**THE UNIVERSITY OF AZAD JAMMU & KASHMIR**  
**Chehla Campus, Muzaffarabad**

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List of Courses to meet United Nation  
Sustainable Development Goals

## LIST OF ELECTIVE/COMPULSORY COURSES FOR MS/M.Phil. PROGRAM

(w.e.f. Fall 2023)

The courses listed below can be taught as elective subjects provided there is no overlap of the course contents studied earlier.

Course Code	Course Title	Credit Hrs.	SDG
<b>ZOO-711.</b>	Advanced Techniques in Zoological Sciences	0+3**	
<b>ZOO-712.</b>	Research Design and Biostatistics	3***	
<b>ZOO-713.</b>	Advances in Biotechnology	3	SDG 3: Good Health & Well-being
<b>ZOO-714.</b>	Advances in Cancer Biology	3	SDG 3: Good Health & Well-being SDG 15: Life on Land SDG 9: Industry, Innovation and Infrastructure
<b>ZOO-715.</b>	Advances in Cell Biology	3	
<b>ZOO-716.</b>	Advances in Ecology	3	
<b>ZOO-717.</b>	Advances in Endocrinology	3	SDG 3: Good Health & Well-being SDG 4: Quality Education SDG 10 – Reduced Inequalities
<b>ZOO-718.</b>	Advances in Enzymology	3	SDG 3: Good Health & Well-being SDG 9: Industry, Innovation and Infrastructure
<b>ZOO-719.</b>	Advances in Immunology	3	
<b>ZOO-720.</b>	Advances in Insect Ecology	3	SDG 15: Life on Land
<b>ZOO-721.</b>	Advances in Microbiology	3	SDG 3: Good Health & Well-being SDG 15: Life on Land SDG 9: Industry, Innovation and Infrastructure
<b>ZOO-722.</b>	Advances in Molecular Genetics	3	
<b>ZOO-723.</b>	Advances in Parasitology	3	
<b>ZOO-724.</b>	Advances in Physiology	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 17: Partnerships for the Goals
<b>ZOO-725.</b>	Apiculture	3	SDG 3: Good Health & Well-being SDG 9: Industry, Innovation and Infrastructure SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-726.</b>	Applied Entomology	3	
<b>ZOO-727.</b>	Applied Genetics	3	
<b>ZOO-728.</b>	Applied Reproductive Physiology	3	SDG 3: Good Health and Well-being SDG 2: Zero Hunger, Sustainable Agriculture SDG 15: Life on Land SDG 9: Industry, Innovation and

			Infrastructure SDG 17: Partnerships for the Goals
<b>ZOO-729.</b>	Cell and Tissue Culture	3	
<b>ZOO-730.</b>	Clinical Immunology	3	
<b>ZOO-731.</b>	Clinical Teratology	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 6: Clean Water and Sanitation
<b>ZOO-732.</b>	Conservation Biology of Wildlife	3	SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-733.</b>	Desert Zoology	3	SDG 15: Life on Land
<b>ZOO-734.</b>	Eco-Tourism Planning and Management	3	
<b>ZOO-735.</b>	Environmental Health Policy and Law	3	
<b>ZOO-736.</b>	Environmental Pollution & Health	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-737.</b>	Enzyme Technology	3	SDG 9: Industry, Innovation and Infrastructure
<b>ZOO-738.</b>	Fish Breeding and Hatchery Management	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-739.</b>	Fish Culture	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-740.</b>	Fish Parasitology	3	
<b>ZOO-741.</b>	Freshwater Biology and Fisheries	3	SDG 3: Good Health and Well-being SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-742.</b>	Herpetology	3	
<b>ZOO-743.</b>	Human Genetics	3	
<b>ZOO-744.</b>	Inland Fisheries Resources	3	SDG 3: Good Health and Well-being SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-745.</b>	Insect Toxicology	3	
<b>ZOO-746.</b>	Lab and Biosafety	3	
<b>ZOO-747.</b>	Lac Insects	3	

<b>ZOO-748.</b>	Mangrove Ecology	3	
<b>ZOO-749.</b>	Medical Virology	3	
<b>ZOO-750.</b>	Modern Fish Processing and Quality Standards	3	
<b>ZOO-751.</b>	Natural Photography	3	
<b>ZOO-752.</b>	Pathophysiology	3	SDG 3: Good Health and Well-being SDG 6: Clean Water and Sanitation SDG 12: Responsible Consumption and Production SDG 17: Partnerships for the Goals
<b>ZOO-753.</b>	Population Genetics	3	
<b>ZOO-754.</b>	Recombinant DNA Technology	3	
<b>ZOO-755.</b>	Regulation of Gene Expression	3	
<b>ZOO-756.</b>	Research Methods in Entomology	3	
<b>ZOO-757.</b>	Scientific Writing & Publishing Results	3	
<b>ZOO-758.</b>	Sea Food Processing	3	
<b>ZOO-759.</b>	Sericulture	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-760.</b>	Toxicology	3	
<b>ZOO-761.</b>	Vaccinology	3	
<b>ZOO-762.</b>	Wildlife of Pakistan and Azad Jammu & Kashmir	3	SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-763.</b>	Wildlife Study Techniques	3	SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-764.</b>	<b>Reading and Conference/ Seminar</b>	--	
<b>ZOO-780</b>	<b>Thesis</b>	6	

### LIST OF SPECIAL COURSES FOR PhD PROGRAM (w.e.f. Fall 2023)

The courses listed below can be taught as special subjects provided there is no overlap of the course contents studied earlier.

Course Code	Course Title	Credit Hrs.	SDG
<b>ZOO-811.</b>	Advances in Aquaculture	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-812.</b>	Advances in Beekeeping Science and Enterprise	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-813.</b>	Advances in Bioinformatics	3	
<b>ZOO-814.</b>	Advances in Biological Techniques	0+3	
<b>ZOO-815.</b>	Advances in Forensic Biology	3	
<b>ZOO-816.</b>	Advances in Helminthology	3	
<b>ZOO-817.</b>	Advances in Molecular Immunology	3	
<b>ZOO-818.</b>	Advances in Ornithology	3	
<b>ZOO-819.</b>	Advances in Reproductive Physiology	3	SDG 3: Good Health and Well-being SDG 5: Gender Equality SDG 10: Reduced Inequalities SDG 17: Partnerships for the Goals
<b>ZOO-820.</b>	Advances in Research Methodology	3	
<b>ZOO-821.</b>	Advances in Wildlife Management and Conservation	3	
<b>ZOO-822.</b>	Animal Biotechnology	3	SDG 2: Zero Hunger / Food Security SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 12: Responsible Consumption and Production SDG 13: Climate Action SDG 15: Life on Land / Biodiversity
<b>ZOO-823.</b>	Applied Microbiology	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 12: Responsible Consumption and Production SDG 6: Clean Water and Sanitation SDG 13: Climate Action

			SDG 15: Life on Land
<b>ZOO-824.</b>	Biochemistry of Drug Action	3	
<b>ZOO-825.</b>	Biology of Ornamental Fish and Aquaria Management	3	SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-826.</b>	Cancer Genetics	3	
<b>ZOO-827.</b>	Climate Change, Ecosystem Resilience and Stability	3	SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-828.</b>	Clinical Endocrinology	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 10: Reduced Inequalities SDG 5: Gender Equality
<b>ZOO-829.</b>	Comparative Vertebrate Cellular and Molecular Endocrinology	3	SDG 3: Good Health and Well-being SDG 15: Life on Land SDG 13: Climate Action / Environmental Resilience SDG 17: Partnerships for the Goals
<b>ZOO-830.</b>	Conservation Genetics	3	
<b>ZOO-831.</b>	Ecosystem Engineering	3	
<b>ZOO-832.</b>	Endangered Species and Their Management	3	SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-833.</b>	Environmental Biotechnology	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 12: Responsible Consumption and Production SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-834.</b>	Fish and Aquatic Toxicology	3	
<b>ZOO-835.</b>	Fish Bioenergetics	3	
<b>ZOO-836.</b>	Fish Nutrition and Health	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-837.</b>	Fishing Gear and Technology	3	
<b>ZOO-838.</b>	Forensic Entomology	3	
<b>ZOO-839.</b>	Forensic Science	3	
<b>ZOO-840.</b>	Gene Therapy	3	
<b>ZOO-841.</b>	Genomics and Proteomics	3	
<b>ZOO-842.</b>	GIS & Remote Sensing	3	
<b>ZOO-843.</b>	Human Embryology and Teratology	3	SDG 3: Good Health and Well-being

			SDG 4: Quality Education SDG 17: Partnerships for the Goals
<b>ZOO-844.</b>	Industrial Biotechnology	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-845.</b>	Mariculture	3	
<b>ZOO-846.</b>	Molecular Evolution	3	
<b>ZOO-847.</b>	Physiology of Excitable Tissues	3	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 9: Industry, Innovation and Infrastructure SDG 17: Partnerships for the Goals
<b>ZOO-848.</b>	Principles of Wildlife Management	3	SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-849.</b>	Recent Trends in Mammalogy	3	
<b>ZOO-850.</b>	Stem Cell Biology	3	SDG 3: Good Health and Well-being SDG 9: Industry, Innovation, and Infrastructure SDG 4: Quality Education SDG 10: Reduced Inequalities SDG 17: Partnerships for the Goals
<b>ZOO-851.</b>	Systemic Toxicology	3	
<b>ZOO-852.</b>	Vector Biology	3	
<b>ZOO-853.</b>	Wetlands Management	3	SDG 9: Industry, Innovation and Infrastructure SDG 6: Clean Water and Sanitation SDG 13: Climate Action SDG 15: Life on Land
<b>ZOO-854.</b>	Reading and Conference/ Seminar	--	
<b>ZOO-879</b>	PhD Comprehensive Examination (Oral/Written)	Qualified/ Dis-qualified	
<b>ZOO-880</b>	<b>Thesis</b>	24	

