

**Year 1****Semester 1**

Course	Parts	CFU
Bioethics and legislation	Bioethics	6
	Relevant legislation and animal protection	6
Applied mathematics and physics*	Applied mathematics	4
Applied Chemistry and Biochemistry	Chemistry	5
	Biochemistry	6

**Semester 2**

Course	Parts	CFU
Applied mathematics and physics*	Applied physics	6
	Data management systems	2
Animal biology and genetics	General Biology	6
	Applied animal genetics	6
Comparative Animal Anatomy	Comparative Animal Anatomy I	5
	Comparative Animal Anatomy II	4

**Year 2****Semester 1**

Course	Parts	CFU
Principles of Prevention and Control of Transmissible Animal Diseases	Principles of Prevention and Control of Infectious Diseases	3
	Principles of Prevention and Control of Parasitic Diseases	4
Comparative Animal Physiology	Comparative Animal Physiology I	5
	Comparative Animal Physiology II	3
Behavioural Neuroscience for Animal Care	Physiological Bases of Animal Behaviour	5
	Animal Cognition	2
Animal Husbandry and welfare	Animal Husbandry and welfare	6
	Environmental quality	2
Communication skills	Communication skills	2

**Semester 2**

Course	Parts	CFU
Basics of animal nutrition and feeding	Basics of animal nutrition and feeding I	4
	Basics of animal nutrition and feeding II	2
General concepts of pharmaco-toxicology	General concepts of pharmaco-toxicology	6
	Concepts of general anaesthesiology	2
General pathology and laboratory techniques	General pathology and laboratory techniques	6
Comparative animal reproduction, neonatology and breeding techniques	Comparative animal reproduction, neonatology and breeding techniques	5
	Elements of neonatology	3

**Year 3****Semester 1 – Wild and Zoo Animals study plan**

Course	Parts	CFU
Comparative ecology and ethology	Applied ecology	6
	Wild and Zoo animal behaviour and training	4
Wild and Zoo animal care in clinical settings	Wild and Zoo animal care in clinical settings I	5
	Wild and Zoo animal care in clinical settings II	3
Principle of post-mortem techniques and tissue sampling	Principle of post-mortem technics and tissue sampling	6
Wild and Zoo animals' husbandry, management and welfare	Wild and zoo animals' husbandry and welfare	6
	Business management	2

**Semester 1 –Animals in Scientific Research study plan**

Course	Parts	CFU
Animal care in research clinical settings	Animal care in in research clinical settings I	5
	Animal care in in research clinical settings II	3
	General concepts of pharmaco-toxicology	2
Comparative pathology	Principle of post-mortem technics and tissue sampling	5
	Methods for producing and analysing animal models	3
Animal husbandry, ethology and welfare in scientific research	Animal husbandry and welfare I	4
	Animal husbandry and welfare II	2
	Ethology	2
Experimental design and statistical analysis in Animal research		6

\* Annual Course

<b>Semester 1 –Aquatic Animals study plan</b>		
<b>Course</b>	<b>Parts</b>	<b>CFU</b>
Aquatic animal care in clinical settings	Animal care in clinical settings	3
	Animal care in reproductive settings	2
	From clinical settings to reintroduction into the wild	2
	Control of Parasitic Diseases	2
Post-mortem investigations and biomolecular techniques applied to aquatic vertebrates	Post-mortem investigation	6
	Biomolecular Techniques	2
Aquatic animals management, ecology and ethology	Aquatic Animals management	4
	Ecology of Aquatic Animals	3
	Aquatic Animals Ethology	2
Experimental design and statistical analysis in Animal research		6
<b>Semester 2</b>		
<b>Activity</b>		<b>CFU</b>
Free elective courses		12
Practical training		12
Final dissertation		6