



**DEPARTMENT OF ANIMAL SCIENCES  
(VETERINARY) DOCTORATE PROGRAMME**

I. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 101	Expertise Branch Course	C	8	0	8	0	9
VZD 102	Thesis Preparation Study	C	0	1	1	0	1
<b>Elective Courses</b> (Total 20 ECTS credit courses will be taken in the Elective Courses Pool)							
	Elective Course I	E					4
	Elective Course II	E					4
	Elective Course III	E					4
	Elective Course IV	E					4
	Elective Course V	E					4
	<b>Total</b>						<b>30</b>

II. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 103	Expertise Branch Course	C	8	0	8	0	9
VZD 104	Thesis Preparation Study	C	0	1	1	0	1
VZD 105	Seminar	Z	0	2	2	0	4
<b>Elective Courses</b> (Total 16 ECTS credit courses will be taken in the Elective Courses Pool)							
	Elective Course I	E					4
	Elective Course II	E					4
	Elective Course III	E					4
	Elective Course IV	E					4
	<b>Total</b>						<b>30</b>

III. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 106	Expertise Branch Course	C	8	0	8	0	9
VZD 107	Thesis Preparation Study	C	0	1	1	0	1
<b>Elective Courses</b> (Total 20 ECTS credit courses will be taken in the Elective Courses Pool)							
	Elective Course I	E					4
	Elective Course II	E					4
	Elective Course III	E					4
	Elective Course IV	E					4
	Elective Course V	E					4
	<b>Total</b>						<b>30</b>

IV. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 108	Thesis Study	C	0	1	1	0	21
VZD 109	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

V. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 110	Thesis Study	C	0	1	1	0	21
VZD 111	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

VI. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 112	Thesis Study	C	0	1	1	0	21
VZD 113	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

VII. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 114	Thesis Study	C	0	1	1	0	21
VZD 115	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

VIII. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 116	Thesis Study	C	0	1	1	0	21
VZD 117	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

IX. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 118	Thesis Study	C	0	1	1	0	21
VZD 119	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

X. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 120	Thesis Study	C	0	1	1	0	21
VZD 121	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

XI. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 122	Thesis Study	C	0	1	1	0	21
VZD 123	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

XII. SEMESTER							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	<b>Compulsory Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 124	Thesis Study	C	0	1	1	0	21
VZD 125	Expertise Branch Course	C	8	0	8	0	9
<b>Total</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>

ELECTIVE COURSES POOL							
C. CODE	COURSE NAME	C/E	Theo	Prac.	Tot.	Credit	
	<b>Elective Courses</b>					<b>National</b>	<b>ECTS</b>
VZD 126	Cattle breeding	E	3	1	4	3,5	4
VZD 127	Hereditary defects and disease resistance	E	3	1	4	3,5	4
VZYD128	Preparation of Animal breeding feasibility report	E	3	1	4	3,5	4
VZD 129	Dairy cattle breeding	E	3	1	4	3,5	4
VZD 130	Horse breeding and race organization	E	3	1	4	3,5	4
VZD 131	Population genetics	E	3	1	4	3,5	4
VZD 132	Elimination of environmental factors	E	3	1	4	3,5	4
VZD 133	Exterior knowledge in farm animals	E	3	1	4	3,5	4
VZD 134	Beef cattle breeding	E	3	1	4	3,5	4
VZD 135	Barns and breeding affairs	E	3	1	4	3,5	4
VZD 136	Animal improvement	E	3	1	4	3,5	4
VZD 137	Advanced goat husbandry and breeding	E	3	1	4	3,5	4
VZD 138	Records and yeald controlling	E	3	1	4	3,5	4
VZD 139	Cattle barns and breeding hygiene	E	3	1	4	3,5	4
VZD 140	Milking and milking machine	E	3	1	4	3,5	4
VZD 141	Biotechnology in animal breeding	E	3	1	4	3,5	4
VZD 142	Interaction of genotype and environmental	E	3	1	4	3,5	4
VZD 143	Experimental design	E	3	1	4	3,5	4
VZD 144	Selection methods and breedi,ng systems	E	3	1	4	3,5	4
VZD 145	Animal improvement with computer	E	3	1	4	3,5	4
VZD 146	Type and body condition scoring in cattle	E	3	1	4	3,5	4
VZD 147	Live assesment and carcass grading in cattle	E	3	1	4	3,5	4
VZD 148	Growth and development in farm animals	E	3	1	4	3,5	4
VZD 149	General zootechny	E	3	1	4	3,5	4
VZD 150	Turkey breeding and husbandry	E	3	1	4	3,5	4
VZD 151	Poultry welfare	E	3	1	4	3,5	4
VZD 152	Poultry business planning	E	3	1	4	3,5	4
VZD 153	Embriyonic development and hatching techniques in poultry	E	3	1	4	3,5	4
VZD 154	Egg production technique	E	3	1	4	3,5	4
VZD 155	Ethics in animal experimentation	E	3	1	4	3,5	4
VZD 156	Poultry breeding and husbandry	E	3	1	4	3,5	4
VZD 157	Advanced processing technology for egg	E	3	1	4	3,5	4
VZD 158	Laboratory animal breeding and husbandry	E	3	1	4	3,5	4
VZD 159	Interactions between animal welfare, environment and food quality	E	3	1	4	3,5	4
VZD 160	Organic and ecologic animal breeding and husbandry	E	3	1	4	3,5	4
VZD 161	Pig breeding and husbandry	E	3	1	4	3,5	4

VZD 162	Rabbit breeding and husbandry	E	3	1	4	3,5	4
VZD 163	Animal ethology	E	3	1	4	3,5	4
VZD 164	Current trends in the production of animal products, and new expectations	E	3	1	4	3,5	4
VZD 165	Poultry breeding methods and techniques	E	3	1	4	3,5	4
VZD 166	Goose and duck breeding and husbandry	E	3	1	4	3,5	4
VZD 167	Game and ornamental animal breeding and husbandry	E	3	1	4	3,5	4
VZD 168	New equipment and technologies used in poultry breeding and husbandry	E	3	1	4	3,5	4
VZD 169	Management for rearing pullets in poultry	E	3	1	4	3,5	4
VZD 170	Fisheries production and aquaculture	E	3	1	4	3,5	4
VZD 171	Animal welfare	E	3	1	4	3,5	4
VZD 172	Alternative poultry production systems	E	3	1	4	3,5	4
VZD 173	Technical bee breeding and husbandry	E	3	1	4	3,5	4
VZD 174	Human-Animal interactions in livestock production	E	3	1	4	3,5	4
VZD 175	Quail breeding and husbandry	E	3	1	4	3,5	4
VZD 176	Ostrich breeding and husbandry	E	3	1	4	3,5	4
VZD 177	Environmental and public health impacts of animal production	E	3	1	4	3,5	4
VZD 178	Silkworm breeding and husbandry	E	3	1	4	3,5	4
VZD 179	Equestrian sports	E	3	1	4	3,5	4
VZD 180	Herd health and management	E	3	1	4	3,5	4
VZD 181	Horse behaviour and welfare	E	3	1	4	3,5	4
VZD 182	Cattle behaviour and welfare	E	3	1	4	3,5	4
VZD 183	Animal liberation in Turkey and World	E	3	1	4	3,5	4
VZD 184	Shepherd dog breeding and management	E	3	1	4	3,5	4
VZD 185	Buffalo breeding	E	3	1	4	3,5	4
VZD 186	Genetic advances in sheep and cattle	E	3	1	4	3,5	4
VZD 187	Animal models	E	3	1	4	3,5	4
VZD 188	Genetic evaluation and breeding plan	E	3	1	4	3,5	4
VZD 189	Quantitative genetics	E	3	1	4	3,5	4
VZD 190	Applied statistics genetic with R language	E	3	1	4	3,5	4
VZD 191	Scientific resource thecnics	E	3	1	4	3,5	4
VZD 192	Biosecurity in animal production	E	3	1	4	3,5	4
VZD 193	Broiler production	E	3	1	4	3,5	4
VZD 194	Animal welfare in meat chicken production	E	3	1	4	3,5	4
VZD 195	Pet animal husbandry	E	3	1	4	3,5	4
VZD 196	Hatchery hygiene	E	3	1	4	3,5	4
VZD 197	Further processing technologies in poultry meat	E	3	1	4	3,5	4
VZD 198	Principles of hazard analyses on critical control points in animal production	E	3	1	4	3,5	4
VZD 199	Farm animal husbandry techniques	E	3	1	4	3,5	4
VZD 200	Advanced sheep husbandry and breeding	E	3	1	4	3,5	4
VZD 201	Parametric and non-parametric tests in zootechny	E	3	1	4	3,5	4
VZD 202	Reproductive management of sheep	E	3	1	4	3,5	4

VZD 203	Sheep behavior	E	3	1	4	3,5	4
VZD 204	Selection of breeding stock and estimated breeding value in zootechny	E	3	1	4	3,5	4
VZD 205	Estimation of population parameters in animal husbandry	E	3	1	4	3,5	4
VZD 206	Professional English	E	3	1	4	3,5	4
VZD 207	Wool production	E	3	1	4	3,5	4
VZD 208	Statistical mathematical models in zootechny	E	3	1	4	3,5	4
VZD 209	Scientific reserch planning and principles of thesis writing in zootechny	E	3	1	4	3,5	4
VZD 210	Herd management in farm animals	E	3	1	4	3,5	4
VZD 211	Health care and diseases in sheep husbandry	E	3	1	4	3,5	4
VZD 212	Dairy goat farming and breeding	E	3	1	4	3,5	4
VZD 213	Water buffalo husbandry and breeding	E	3	1	4	3,5	4
VZD 214	Wild life in Turkey	E	3	1	4	3,5	4
VZD 215	Production of slaughter animals	E	3	1	4	3,5	4
VZD 216	Planning of animal shelters	E	3	1	4	3,5	4
VZD 217	Partridge and pheasant breeding	E	3	1	4	3,5	4
VZD 218	Sustainable wild life	E	3	1	4	3,5	4
VZD 219	Practical applications in farm animals	E	3	1	4	3,5	4
VZD 220	Knowledge of mohair	E	3	1	4	3,5	4
VZD 221	Development and Learning	E	3	0	3	3	4
VZD 222	Instructional Planning and Evaluation	E	3	0	3	3	4
VZD 223	Investigation Methods	E	3	0	3	3	4