



DEPARTMENT OF MICROBIOLOGY (VETERINARY) DOCTORATE PROGRAMME

SEMESTER: I							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	Compulsory Courses					National	ECTS
VMD 101	Expertise Branch Course	C	8	0	8	0	9
VMD 102	Thesis Preparation Study	C	0	1	1	0	1
Elective Courses (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
	Total						30

SEMESTER: II							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	Compulsory Courses					National	ECTS
VMD 103	Expertise Branch Course	C	8	0	8	0	9
VMD 104	Thesis Preparation Study	C	0	1	1	0	1
Elective Courses (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
	Total						30

SEMESTER: III							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	Compulsory Courses					National	ECTS
VMD 105	Expertise Branch Course	C	8	0	8	0	9
VMD 106	Thesis Preparation Study	C	0	1	1	0	1
VMD 107	Seminar	C	2	0	2	0	4
Elective Courses (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
	Total						30

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

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

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

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

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

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

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

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

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

ELECTIVE COURSES POOL							
C. CODE	COURSE NAME	C/E	Theo.	Prac.	Tot.	Credit	
	Elective Courses					National	ECTS
VMD 126	Investigation Methods	E	3	0	3	3	4
VMD 127	Development and Learning	E	3	0	3	3	4
VMD 128	Instructional Planning and Evaluation	E	3	0	3	3	4
VMD 129	Biostatistics	E	3	0	3	3	4
VMD 130	General Microbiology I	E	2	2	4	3	4
VMD 131	General Microbiology II	E	4	0	4	3	4
VMD 132	Special Microbiology I	E	2	2	4	3	4
VMD 133	Special Microbiology II	E	3	1	4	3,5	4
VMD 134	Special Microbiology III	E	4	0	4	4	4
VMD 135	Immunology I	E	3	1	4	3,5	4
VMD 136	Immunology II	E	3	1	4	3,5	4
VMD 137	Immunology III	E	3	1	4	3,5	4
VMD 138	Epidemiology I	E	4	0	4	4	4
VMD 139	Epidemiology II	E	4	0	4	4	4
VMD 140	Poultry Diseases I	E	2	2	4	3	4
VMD 141	Poultry Diseases II	E	3	1	4	3,5	4
VMD 142	Culture Media, Sterilization and Disinfection I	E	2	2	4	3	4
VMD 143	Culture Media, Sterilization and Disinfection II	E	2	2	4	3	4
VMD 144	Isolation and Identification Methods I	E	2	2	4	3	4
VMD 145	Isolation and Identification Methods II	E	2	2	4	3	4
VMD 146	Laboratory Diagnosis of Mastitis	E	2	2	4	3	4
VMD 147	Resistance Against Antibiotics	E	2	2	4	3	4
VMD 148	Antigen-Antibody Reactions	E	4	0	4	4	4
VMD 149	Acidoresistant Bacteria Infections	E	2	2	4	3	4
VMD 150	Laboratory Diagnosis of Brucellosis	E	2	2	4	3	4
VMD 151	Microbiology on the Internet	E	2	2	4	3	4
VMD 152	Clinical Microbiology	E	2	2	4	3	4
VMD 153	Mycology and Mycotic Diseases	E	2	2	4	3	4
VMD 154	Vaccines	E	3	0	3	3	4
VMD 155	Bacterial Diseases of Fish	E	2	2	4	3	4
VMD 156	Biotechnology I	E	2	2	4	3	4
VMD 157	Immunity Mechanism in Infectious Diseases	E	2	2	4	3	4
VMD 158	Infectious Diseases of Cage Birds	E	2	2	4	3	4

VMD 159	Statistics in Microbiology and Epidemiology	E	2	2	4	3	4
VMD 160	Zoonotic Infections	E	2	2	4	3	4
VMD 161	Analytical Epidemiology	E	2	2	4	3	4
VMD 162	Molecular Typing Methods of Bacteria	E	2	2	4	3	4
VMD 163	PCR in Bacteriology	E	2	2	4	3	4
VMD 164	Biotechnology II	E	2	2	4	3	4
VMD 165	Environmental Microbiology	E	2	2	4	3	4
VMD 166	Swine Immunology	E	3	1	4	3,5	4
VMD 167	Bacterial Diseases of Swine	E	2	2	4	3	4
VMD 168	Poultry Immunology	E	3	1	4	3,5	4
VMD 169	Biosecurity in Microbiology	E	2	2	4	3	4
VMD 170	Genetics of Bacteria	E	2	2	4	3	4
VMD 171	Bacterial Metabolism	E	2	2	4	3	4
VMD 172	Bacterial Virulence Factors	E	2	2	4	3	4
VMD 173	Experimental Animals	E	2	2	4	3	4
VMD 174	Phages and Phage Typing	E	2	2	4	3	4