Study Programme: **P0588D030004 - Protection of Aquatic Ecosystems**

Academic Year: **2026/2027** Credit limit: **240**

Specialization: **Protection of Aquatic Ecosystems** Version: **2026**

Studies: **Combined** Credit limit: **240**

Mandatory courses (A) — Number of courses: 7 credits: 29

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
VURH/APIA1	Publication 1 - first author		10	0+0+0	Zp	
VURH/APIA2	Publication 2 - first author		10	0+0+0	Zp	
VURH/ELFDK	English Language		5	0+0+0	Zp	
VURH/ASED1	Ph.D. Seminar 1		1	0+0+0	Zp	ZS
VURH/ASED2	Ph.D. Seminar 2		1	0+0+0	Zp	ZS
VURH/ASED3	Ph.D. Seminar 3		1	0+0+0	Zp	ZS
VURH/ASED4	Ph.D. Seminar 4		1	0+0+0	Zp	ZS

Compulsory optional - courses (B) — Selection min.: 25 cr.

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
UA/AIMDK	Immunology in Aquaculture		5	0S+0S+16S	Zp,Zk	
VURH/EAODK	Ethology of Aquatic Organisms		5	0S+0S+16S	Zp,Zk	
UA/ESRWK	Ecology of Still and Running Waters		5	0S+0S+24S	Zk	ZS
VURH/AZVKK	Basics of Scientific Communication		5	0S+0S+16S	Zk	ZS
VURH/CMBDK	Applied Cellular and Molecular Biology		5	0S+0S+16S	Zp,Zk	ZS
VURH/DESDK	Disord. of Endocr. Syst. in Aqua. Anim.		5	0S+0S+16S	Zk	ZS
VURH/FPCDK	Fish Pathology of Envion. Contaminants		5	0S+0S+16S	Zp,Zk	ZS
VURH/TAODK	Toxicology Focused on Aquatic Organisms		5	0S+0S+16S	Zk	ZS
UA/BIODK	Bioinformatics		5	0S+0S+16S	Zp,Zk	LS
VURH/CEWDK	Cycle of Elements in Aquatic Ecosystems		5	0S+0S+16S	Zk	LS
VURH/EACDK	Environmental Analytical Chemistry		5	0S+0S+16S	Zk	LS
VURH/ECWDK	Ecological Status of Water Bodies		5	0S+0S+16S	Zp,Zk	LS
VURH/EFCDK	Ecology of Freshwater Crustaceans+Clams		5	0S+0S+16S	Zk	LS
VURH/EMODK	Environmental Monitoring		5	0S+0S+16S	Zp,Zk	LS
VURH/IFEDK	Biological Invasion in Freshwater Ecosys		5	0S+0S+16S	Zk	LS
VURH/OAPDK	Omics Methods and Data Analyses		5	0S+0S+16S	Zk	LS
VURH/SFMDK	Susainable Fishery Manag. in Open Waters		5	0S+0S+16S	Zk	LS

The OAPDK a CEWDK courses are opened every even year (beginning of the academic year 2024/25, etc.), the DESDK course is opened every odd year (beginning of the academic year 2025/26, etc.)

Compulsory optional - Ph.D. practice, Literature review (B) — Selection min.: 170 cr.

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
UA/ADPX1	Doctoral Practice 1		20	0+0+40	Zp	
UA/ADPX2	Doctoral Practice 2		20	0+0+40	Zp	
UA/ADPX3	Doctoral Practice 3		20	0+0+40	Zp	
UA/ADPX4	Doctoral Practice 4		20	0+0+40	Zp	
UA/ADPX5	Doctoral Practice 5		20	0+0+40	Zp	
UA/ADPX6	Doctoral Practice 6		20	0+0+40	Zp	
UA/ADPX7	Doctoral Practice 7		20	0+0+40	Zp	
UA/ADPX8	Doctoral Practice 8		20	0+0+40	Zp	
UA/ADPX9	Doctoral Practice 9		0	0+0+40	Zp	
UA/ADP10	Doctoral Practice 10		0	0+0+40	Zp	
UA/ADP11	Doctoral Practice 11		0	0+0+40	Zp	
UA/ADP12	Doctoral Practice 12		0	0+0+40	Zp	
UA/AVLRE	Elaborating a Literature Review		10	0+0+0	Zp	

VURH/ADPX1	Doctoral Practice 1	20	0+0+40	Zp
VURH/ADPX2	Doctoral Practice 2	20	0+0+40	Zp
VURH/ADPX3	Doctoral Practice 3	20	0+0+40	Zp
VURH/ADPX4	Doctoral Practice 4	20	0+0+40	Zp
VURH/ADPX5	Doctoral Practice 5	20	0+0+40	Zp
VURH/ADPX6	Doctoral Practice 6	20	0+0+40	Zp
VURH/ADPX7	Doctoral Practice 7	20	0+0+40	Zp
VURH/ADPX8	Doctoral Practice 8	20	0+0+40	Zp
VURH/ADPX9	Doctoral Practice 9	0	0+0+40	Zp
VURH/ADP10	Doctoral Practice 10	0	0+0+40	Zp
VURH/ADP11	Doctoral Practice 11	0	0+0+40	Zp
VURH/ADP12	Doctoral Practice 12	0	0+0+40	Zp
VURH/AVLRE	Elaborating a Literature Review	10	0+0+0	Zp

Optional courses (C)

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
VURH/ADOD1	Professional Practice 1		1	0+0+5D	Zp	
VURH/ADOD2	Professional Practice 2		1	0+0+5D	Zp	
VURH/ADOD3	Professional Practice 3		1	0+0+5D	Zp	
VURH/ADOD4	Professional Practice 4		1	0+0+5D	Zp	
VURH/ALSD1	Summer School 1		2	0+0+0	Zp	
VURH/ALSD2	Summer School 2		2	0+0+0	Zp	
VURH/APDO1	Presentation of results - lecture		5	0+0+0	Zp	
VURH/APDP1	Presentation of results - poster		2	0+0+0	Zp	
VURH/APEC1	Pedagogical Activities 1		2	0+0+30S	Zp	
VURH/APEC2	Pedagogical Activities 2		2	0+0+30S	Zp	
VURH/APEC3	Pedagogical Activities 3		2	0+0+30S	Zp	
VURH/APIA3	Publication 3 - first author		10	0+0+0	Zp	
VURH/APIA4	Publication 4 - first author		10	0+0+0	Zp	
VURH/APIS1	Publication 1 - other		4	0+0+0	Zp	
VURH/APIS2	Publication 2 - other		4	0+0+0	Zp	
VURH/APIS3	Publication 3 - other		4	0+0+0	Zp	
VURH/APIS4	Publication 4 - other		4	0+0+0	Zp	
VURH/AVZPK	Consulting of the Final Thesis		2	0+0+0	Zp	
VURH/AVZPV	Leading of the Final Thesis		5	0+0+0	Zp	
VURH/AZSD1	Foreign Internship 1		2	0+0+30D	Zp	
VURH/AZSD2	Foreign Internship 2		2	0+0+30D	Zp	
VURH/AZSD3	Foreign Internship 3		2	0+0+30D	Zp	