

ENVIRONMENTAL MODELLING

PhD Specialization

Special subjects¹ to compile your Individual study plan (ISP) - min. 20 credits**

Code	Subject	Garant / Examiners	Compulsory / Elective	Credits
DZVX10Y	Modeling of Processes in Environment	Vach M. / Máca P., Hanel M., Kuráž M., Markonis Y.	C	10
DZOX11Y	Environmental Geochemistry	Moudrý Vítězslav / Chrástný Vladislav, Vítková M.	E	10
DZOX12Y	Environmental Hydrogeology	Trakal Lukáš / Kuráž M., Pech P.	E	10
	External course (not CZU)	individual	E	10
DZVX14Y	Flow in the Atmospheric Boundary Layer	Jaňour Zbyněk	E	10
DZVX11Y	Hydraulic and Hydrological Modeling	Pech Pavel / Máca Petr, Kuráž Michal, Hanel Martin	E	10
DZVX12Y	Modeling of Water Flow in Porous Media	Pavlásek Jiří / Kuráž Michal	E	10
DZOX07Y	Numerical Methods	Kuráž Michal	E	10
DZVX08Y	Physical - Chemical Aspects of Processes	Vach Marek / Máca Petr, Hanel Martin, Kuráž Michal	E	10
DZVX13Y	Transport Processes (in Surface and Ground Waters)	Pech Pavel / Kuráž M.	E	10
DAPX01Y	Transport Processes in Soils	Kodešová Radka	E	10

** You need to choose all compulsory subjects + one elective subject.

Other study obligations to replenish your ISP - min. 105 credits

Code	Study obligation	Garant	Compulsory / Elective	Credits
DVPX01Y	Didactic and Presentation Skills	Institute of Education and Communication	C - full / E - part	5
MET_DISP	Doctoral Thesis Methodology	Moudrý Vítězslav	C	10
DZXX10Y	Literature Review	Moudrý Vítězslav	C	10
DZXX29Y	Information Sources Processing	Moudrý Vítězslav	C	5
DZXX28Y	Academic English	Moudrý Vítězslav	C	10
DZXX27Y	Academic Writing	Moudrý Vítězslav	C - full / E - part	10
DZEX33Y	Statistical Methods	Moudrý Vítězslav	C	5
DZXX11Y	Foreign internship ²	Moudrý Vítězslav	C	10
DZXX15Y	Article in a Journal with IF or SJR 4 - 1st Author 1	Moudrý Vítězslav	C	40
DZXX32Y	International Scientific Conference	Moudrý Vítězslav	C	10

Code	Study obligation	Garant	Compulsory / Elective	Credits
DZXX16Y	Article in a Journal with IF or SJR 3 - 1st Author 2	Moudrý Vítězslav	E	40
DZXX17Y	Article in a Journal with IF or SJR 3 - 2nd Author 1	Moudrý Vítězslav	E	16
DZXX18Y	Article in a Journal with IF or SJR 3 - 2nd Author 2	Moudrý Vítězslav	E	16
DZXX19Y	Article in a Journal with IF or SJR 3 - 3rd Author 1	Moudrý Vítězslav	E	8
DZXX20Y	Article in a Journal with IF or SJR 3 - 3rd Author 2	Moudrý Vítězslav	E	8
DZXX21Y	Article in a Journal with IF or SJR 3 - 4th and next Author 1	Moudrý Vítězslav	E	4
DZXX22Y	Article in a Journal with IF or SJR 3 - 4th and next Author 2	Moudrý Vítězslav	E	4
DZXX12Y	Conference Contribution - Indexed4 1	Moudrý Vítězslav	E	10
DZXX13Y	Conference Contribution - Indexed4 2	Moudrý Vítězslav	E	10
DZXX14Y	Conference Contribution - Indexed4 3	Moudrý Vítězslav	E	10
POT_SKOL	Supervisor Confirmation	Moudrý Vítězslav	C	0
DZXX23Y	Conference Contribution (unindexed) or Scientific Seminar5 1	Moudrý Vítězslav	E	2
DZXX24Y	Conference Contribution (unindexed) or Scientific Seminar5 2	Moudrý Vítězslav	E	2
DZXX25Y	Conference Contribution (unindexed) or Scientific Seminar5 3	Moudrý Vítězslav	E	2
DZXX26Y	Summer School (1 week)	Moudrý Vítězslav	E	2
SDZ	State Doctoral Examination***	Moudrý Vítězslav	C	20
ODP	Doctoral Thesis Defence	Moudrý Vítězslav	C	80

** You need to choose all compulsory study obligations + elective study obligations to replenish the total required credits. The elective study obligations could be done repeatedly.

*** The Final State Examination consists of two examination topics and thesis discussion. The examination topics are given by the Doctoral Board of the student's study programme and are related to the thesis.

To complete doctoral studies the minimum of 240 credits is required.

To graduate from CZU successfully, the Study and Examination Rules CZU for Studies in Doctoral Study Programmes, Rector's regulation no. 05/2025 and the FZP Dean's regulations have to be observed.

Notes:

1 Special Subjects prescribed by supervisor or Field of Study Board.

2 Foreign Internship means completed 4 weeks internship abroad. For each extra week student obtains 2,5 credits but at maximum 180/240 credits.

3 Article published in a journal with Impact Factor within the WoS database or SJR index within the SCOPUS database.

4 Indexed Conference Contribution is a contribution published as an article in the conference proceedings included in WoS or SCOPUS database.

5 Conference contribution published as an article in the conference proceedings which is not included in WoS or SCOPUS database. Presentation of doctoral thesis research at scientific seminar or students conference (if this is prescribed by the Field of Study Board).

Sample ISP in the University Information System* (Student's portal)

The cooperation of a student and his/her supervisor is required for ISP compilation.

* UIS vocabulary: required courses, elective courses, subject of FZP, subject of CZU, outside course

Code	Subject	Planned date	Examiner	Credits
1st year of study				
MET_DISP	Doctoral Thesis Methodology	winter semester	Moudrý Vítězslav	10
DVPX01Y	Didactic and Presentation Skills	winter semester	Němjec Karel	5
DZXX29Y	Information Sources Processing	winter semester	Šímová Tereza	5
DZXX28Y	Academic English	summer semester	Novotná Lenka	10
DZXX10Y	Literature Review	summer semester	Moudrý Vítězslav	10
DZVX10Y	Modeling of Processes in Environment	summer semester	Máca Petr	10
2nd year of study				
DZXX27Y	Academic Writing	winter semester	Tufano James	10
DZEX33Y	Statistical Methods	summer semester	Hanel Martin	5
DZOX06Y	Special Hydrology	winter semester	Trakal Lukáš	10
3rd year of study				
DZXX11Y	Foreign internship2	summer semester	Moudrý Vítězslav	10
DZXX15Y	Article in a Journal with IF or SJR 4 - 1st Author 1	winter semester	Moudrý Vítězslav	40
DZXX32Y	International Scientific Conference	summer semester	Moudrý Vítězslav	10
Credits in ISP				135

Sample obligations not included in ISP

1st year of study				
DZXX23Y	Conference Contribution (unindexed) or Scientific Seminar5 1	winter semester	Moudrý Vítězslav	2
2nd year of study				
DZXX19Y	Article in a Journal with IF or SJR 4 - 3rd Author 1	summer semester	Moudrý Vítězslav	8
DZXX24Y	Conference Contribution (unindexed) or Scientific Seminar5 2	summer semester	Moudrý Vítězslav	2
3rd year of study				
DZXX11Y	Foreign internship2	summer semester	Moudrý Vítězslav	10
DZXX12Y	Conference Contribution - Indexed3 1	summer semester	Moudrý Vítězslav	10
4th year of study				
SDZ	State Doctoral Examination	winter semester	Moudrý Vítězslav	20
DZXX17Y	Article in a Journal with IF or SJR 4 - 2nd Author 1	summer semester	Moudrý Vítězslav	16
ODP	Doctoral Thesis Defence	summer semester	Moudrý Vítězslav	80
Credits not in ISP				148
Total credits				283