



TECHNICAL UNIVERSITY IN ZVOLEN
Faculty of Ecology and Environmental Sciences
Study programme: **environmental engineering**

Field of Study: Ecological and Environmental Sciences
Degree of study: Third
Study form: full time
Standard length of study: 4 academic years
Academic degree awarded: Philosophiae Doctor (abbreviated "PhD.")
The person responsible for SP quality prof. Ing. Marián Schwarz, CSc.

RECOMMENDED STUDY PLAN

*Mandatory courses * (P)*

Course code	Course name	Credits	Lectures/ seminars	Recomm ended year	Completion of the course	Conditionals courses (code)	Person responsible for the course (title, surname)	Profile course (yes/no)
D-MVEP	Methods of research and experimental work	7	26/0	1	exam		doc. Lepeška	Yes
D-ET	Environmental technologies, development trends and BAT	7	26/0	1	exam		prof. Schwarz	Yes
D-MHF	Measurement and evaluation of environmental factors	7	26/0	1	exam		doc. Hybská	Yes
D-AEI	Analysis of environmental impacts	7	26/0	2	exam		prof. Samešová	Yes
D-EHKM	Environmental assessment, control and management	7	26/0	2	exam		doc. Belčáková	Yes
JA	English Language for PhD. Students	7	0/26	1	exam		PhDr. Balážová	No
DS	Dissertation Examination	20		2	exam		prof. Schwarz	Yes

Selective courses * (PV)

Course code	Course name	Credits	Lectures / seminars	Recommended year	Completion of the course	Conditionals courses (code)	Person responsible for the course (Title, surname)	Profile course (yes/no)
D-HTE	Toxicity and ecotoxicity assessment	7	26/0	1	exam		prof. Schwarz	Yes
D-TVI	Production and use of information systems	7	26/0	1	exam		prof. Pivarčiová	Yes
D-PET	Progressive energy technologies	7	26/0	1	exam		prof. Krilek	No
D - AFCAM	Applied physical-chemical analytical methods	7	26/0	1	exam		prof. Kačík	Yes
D-VPT	Selected processes and technologies for wastewater treatment	7	26/0	2	exam		prof. Samešová	Yes
D-FAPZ	Physical factors in the working and living environment	7	26/0	2	exam		doc. Němec	No

* A student, in consultation with the supervisor, is obliged to choose one of selective subjects from the list above for successful completion of the study

Elective subjects * (V)

Course code	Course name	Credits	Lectures / seminars	Recommended semester	Completion of the course	Conditionals courses (code)	Person responsible for the course (Title, surname)

* Students can choose elective courses according to the public catalogue of courses at TU Zvolen (<https://is.tuzvo.sk>) and after consultation with the guarantor of the study programme.

**in external study lectures are replaced by consultations

1) Study and educational activities of a PhD. student:

	Activities	Credits
1	Completion of a mandatory or selective course	7
2	Completion of another course offered by the faculties of the university	Original subsidy, max 5

3	Teaching activity at the University in the range of 2-4 hours per week on average per academic year	10-20
4	Authorship or co-authorship of teaching aids and texts	2-6
5	Supervising a final (Bachelor) thesis	5
6	International short-term mobility for PhD. student ** (5 days – one month)	5
7	International long-term mobility for PhD. student ** (more than one month)	10

** international mobility more than 5 days long is compulsory activity

2) Creative activity of a PhD. student in the field of science:

	Activities	Credits
1	Scientific publication in a journal registered in the Web of Science or SCOPUS database with an impact factor greater than or equal to 0.47	35
2	Scientific publication in a journal registered in the Web of Science or SCOPUS database with an impact factor lower than 0.47	25
3	Scientific publication in a foreign peer-reviewed scientific journal	18
	Scientific publication in a domestic peer-reviewed scientific journal	15
4	Presentation of own research results at a foreign scientific event (article in proceedings, extended abstract, abstract, independently, co-authorship)	15
5	Presentation of own research results at a domestic scientific event (article in proceedings, extended abstract, abstract, alone, co-authorship)	12
6	Citations Web of Science, SCOPUS	8
7	Foreign citations outside WOS and SCOPUS	3
8	Domestic citations outside WOS and SCOPUS	2
9	Activities within the workplace (member of the organizing committee of the conference, presentation of results, literature search and own experiment)	4
10	Lecture at a professional seminar within the workplace	3
11	participation in the solution of a scientific project with presentation of own results	10
12	Dissertation thesis completion	30

Structure of the study programme in terms of credits:

The total number of credits required for the proper completion of studies	240
A number of credits for the study part	69

A number of credits for mandatory courses required for the proper completion of studies	<i>total:69</i>	<i>Profile courses (PC): 62</i>
A number of credits for selective courses	<i>minimum:7</i>	<i>maximum:42</i>
The total number of credits for profile courses	101	<i>PC: 32</i>
A number of credits for the PhD. student teaching activity		30
A number of credits for the creative activities in terms of science		141
A number of credits for mandatory activities in terms of science		30