



UNIVERSITÀ DELLA CALABRIA

DIPARTIMENTO DI
INGEGNERIA PER L'AMBIENTE
E IL TERRITORIO
E INGEGNERIA CHIMICA

Univerza v Ljubljani



Double Degree between University of Ljubljana (UL) University of Calabria (UNICAL)



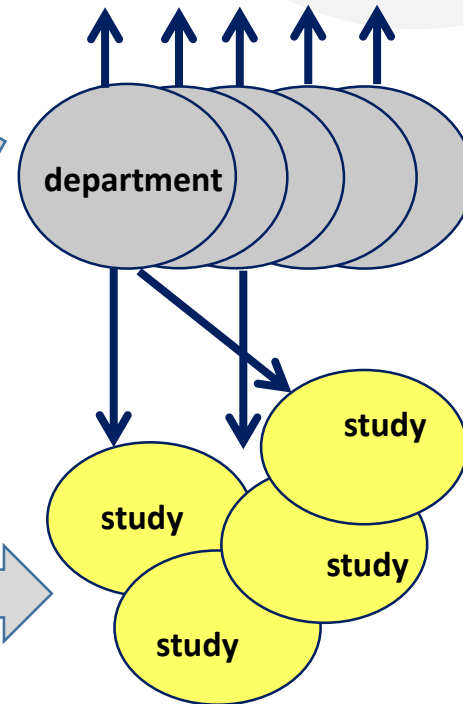
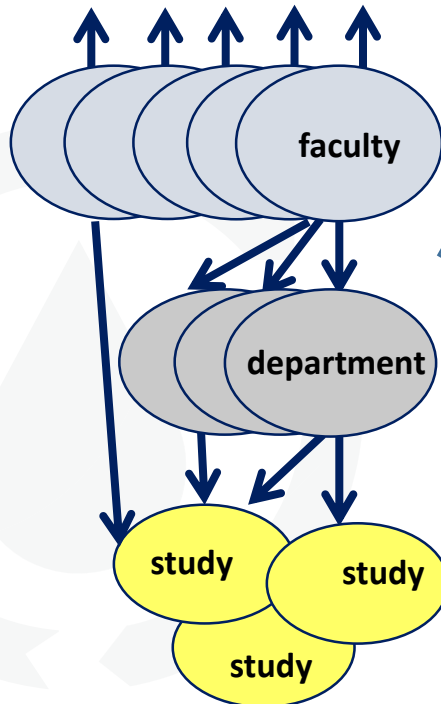
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UL – Uni Ljubljana

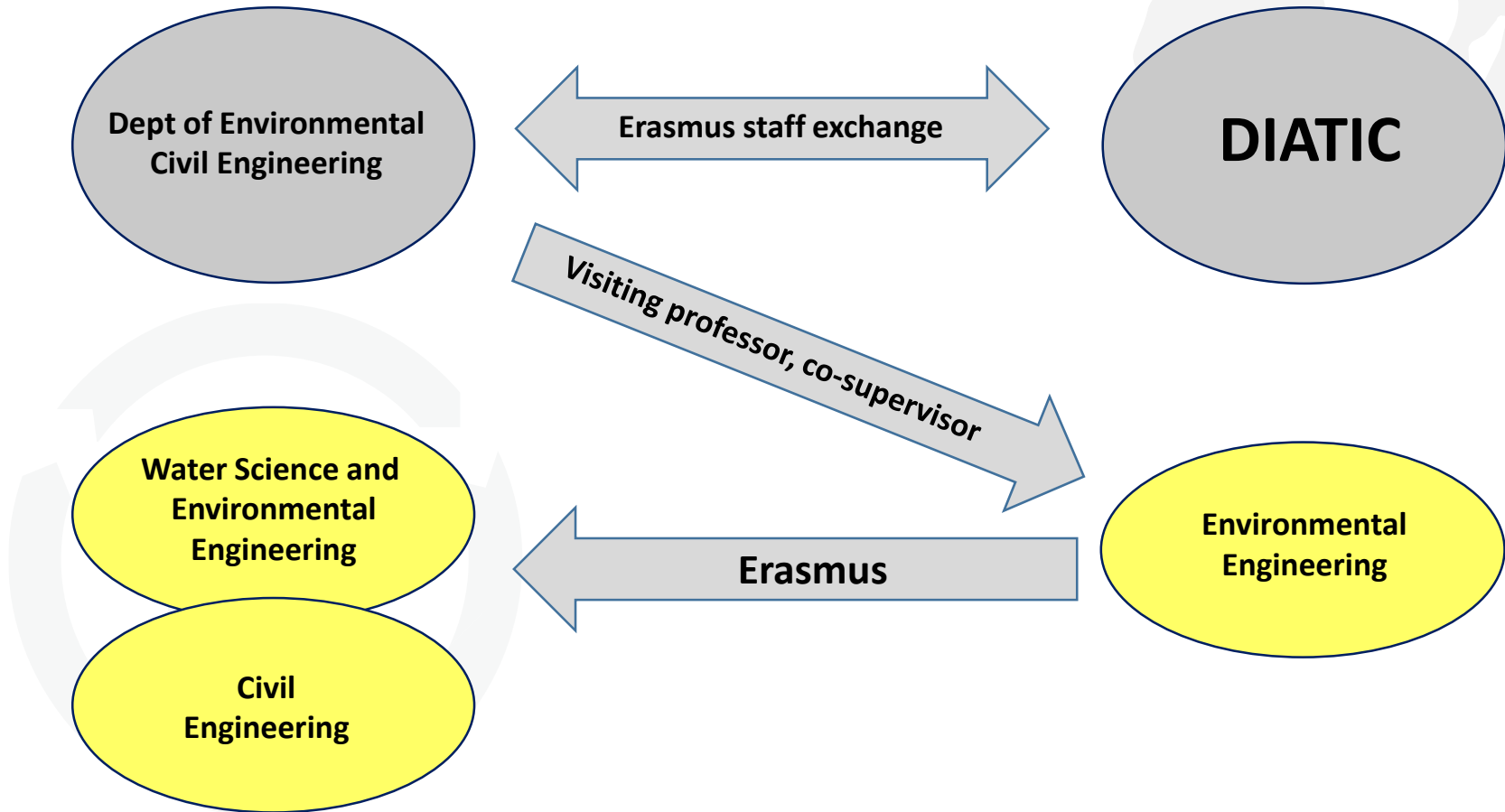


UNICAL – Rende (CS)



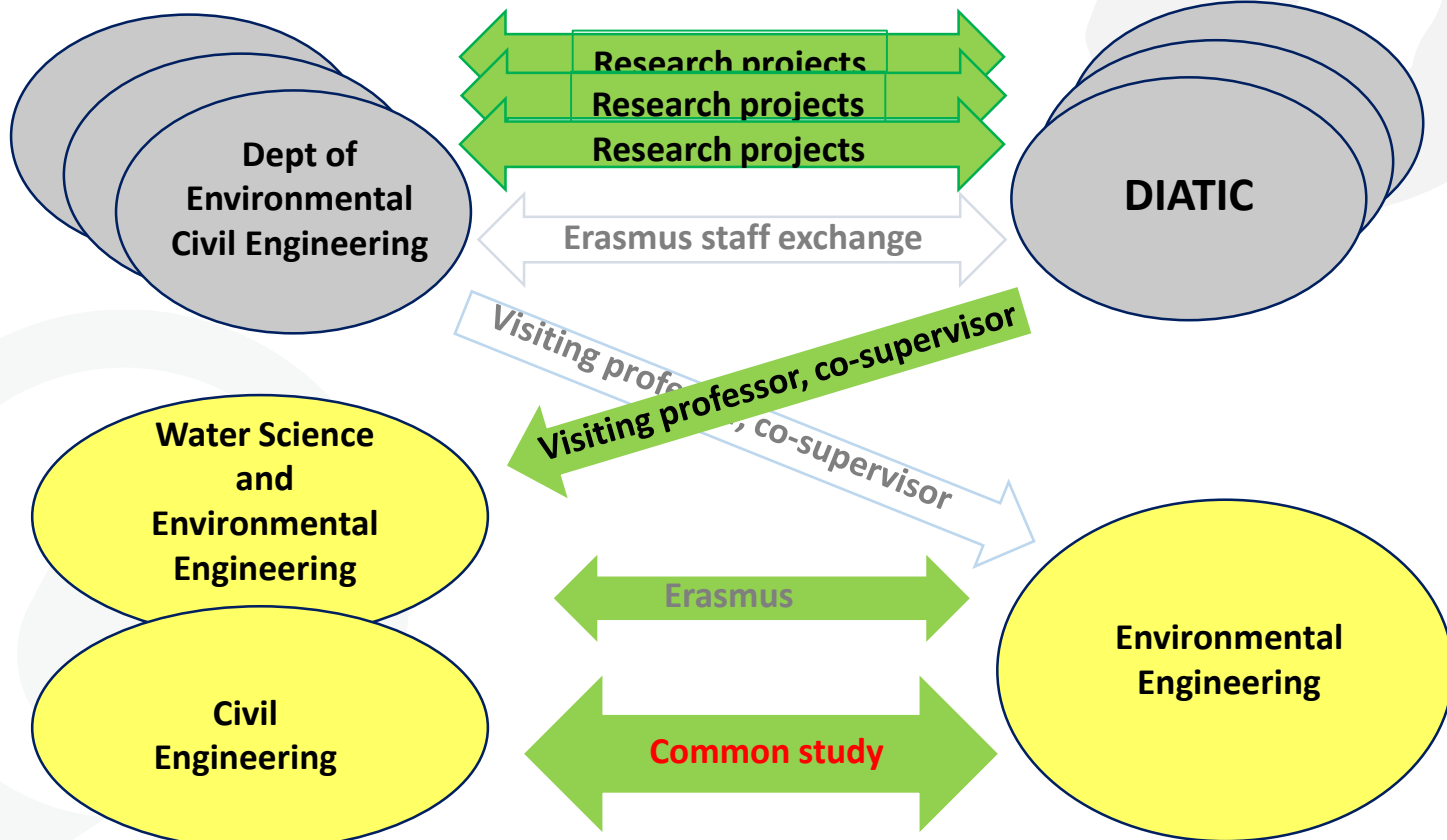


Existing Collaboration





Can we do more?





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Double Degree MD

DOUBLE DEGREE

EXISTING PROGRAMMES

- recognition of ECTS
- simple to achieve !

**Water Science and
Environmental
Engineering**

**UNICAL
Environmental
Engineering**

UNI-LJ

**Civil
Engineering;
Buildings**





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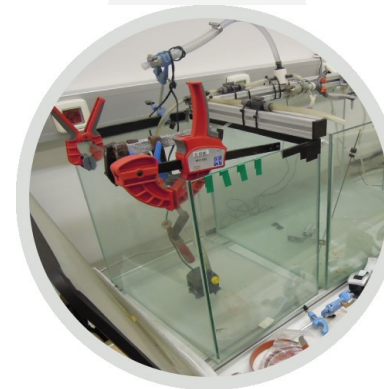
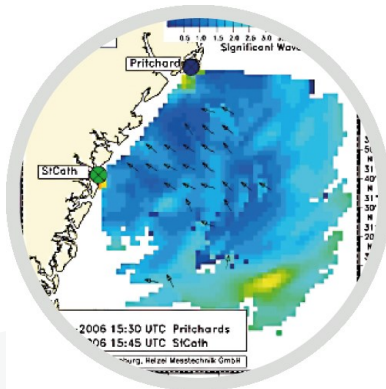
Double Degree MD



- **International connections**
- **Two MSc certificates, double supervision**
- **Journal article (national journal)**
- **Prerequisites for PhD at two Universities**



For teacher/researcher:



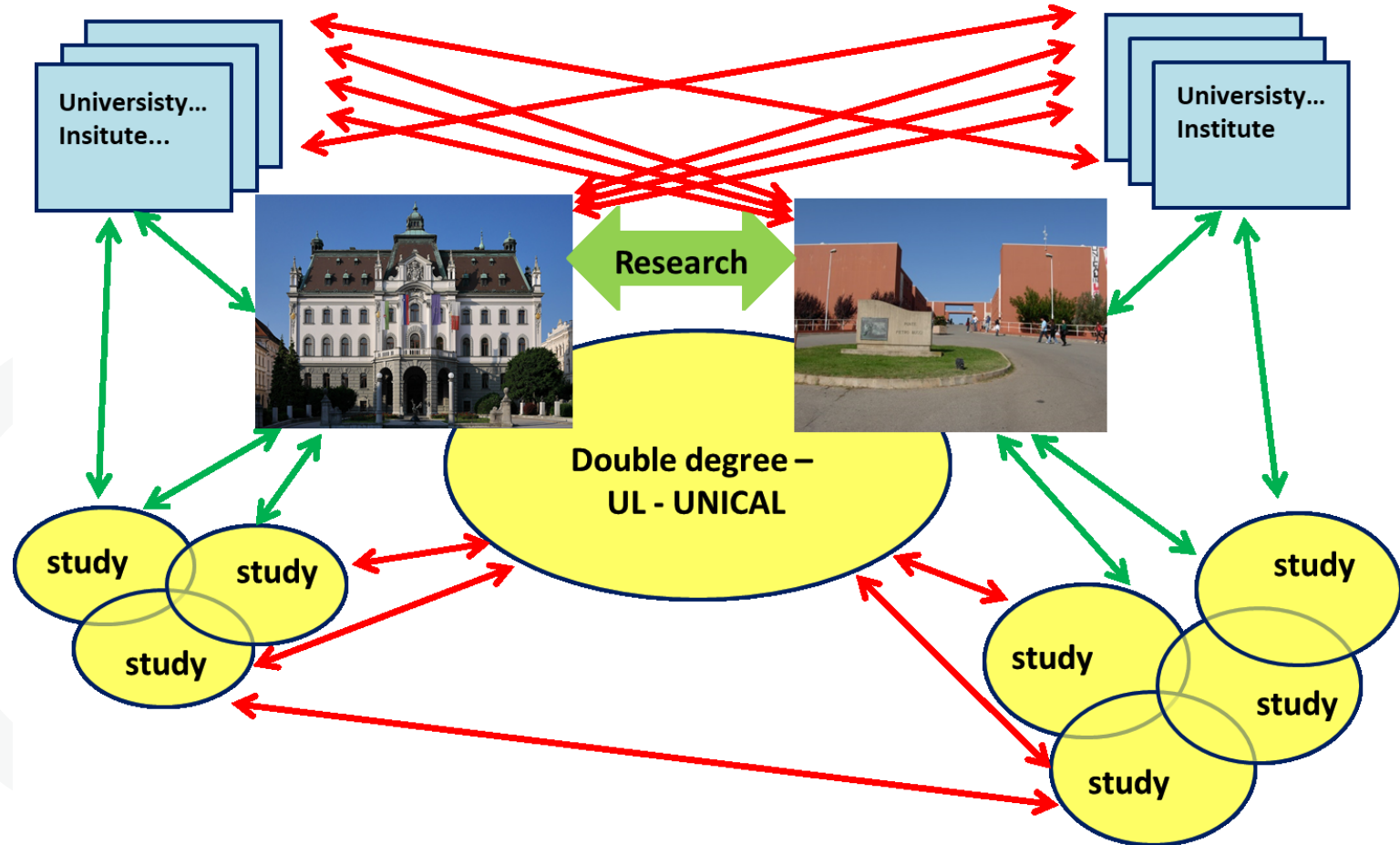
- Ideas (through „double“ supervising)
- Third-party connections in research
- Projects, research programmes, centres of excellence
- Funding, co-authoring journal papers



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Final goal: Network!





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Timetable

Winter 2018/2019 Home	Spring 2018/2019 Home
Winter 2019/2020 Abroad	Spring 2019/2020 Thesis!!
Additional year (at UL): they can finalise the thesis with status	

We can get first double
MSc Eng.in
September
2020 !!!



Timetable



Univerza v Ljubljani



1st – all mandatory
30 ECTS

2nd – all mandatory
30 ECTS

3rd – 24 ECTS module +
6 ECTS elective

4th – Thesis
30 ECTS

Elective

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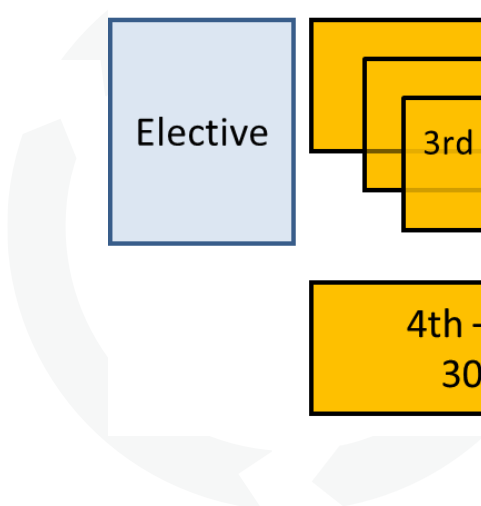
1st – all mandatory
30 ECTS

2nd – 24 ECTS
mandatory, 6 elective

3rd – 21 ECTS
mandatory + 6 elective

4th – 15 ECTS
mandatory + 18
thesis

Elective





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1° Year UL/UNICAL



1. YEAR	
1st semester	ECTS*
Hydraulic modelling	8
Hydrological modelling	6
Drinking water supply and treatment	8
Project management	4
Basics of spatial sociology	3
Total 1st semester	29
2nd semester	ECTS*
River engineering	8
Drainage and irrigation	6
Water protection	4
Open sea and coastal area	4
Environmental geotechnics	5
Remote sensing in environ. civil eng.	4
Total 2nd semester	31

YEAR	SEMESTER	COD.	COURSES	CFU / ECTS	SSD	TAF
I	I	27000186	TERRITORIAL PLANNING	6	ICAR/20	C
		27006240	DESIGN OF STRUCTURES IN SISMIC AREAS	9	ICAR/09	C
		27000194	ENERGY FROM RENEWABLE SOURCES	9	ING-IND/11	AI
		27000064	ELECTRICAL SYSTEMS	6	ING-IND33	AI
	I-II		ELECTIVE COURSES	6		S
	II	27000219	HYDRAULIC CONSTRUCTIONS FOR SUSTAINABLE DEVELOPMENT	9	ICAR/02	C
		27006242	HYDROMETEOROLOGICAL AND COASTAL RISK FORECASTING SYSTEMS	9	ICAR/02	C
		27006857	OPERATING TOOLS FOR HYDRAULIC AND ENVIRONMENTAL STUDIES	6	ICAR/02	C



2° Year UNICAL Students at UL

2. YEAR	
3 rd semester	ECTS*
Elective module	24
Elective course 1	6
Total 3rd semester	30
4 th semester	ECTS*
Master thesis	30
Total 4th semester	30

Elective module Environmental engineering (2 nd year)	
3 rd semester	ECTS*
Urban drainage and cleaning of waste water	8
Water management systems	4
Torrent, erosion, rockfall and avalanche control	4
Mathematical modelling of environmental processes	5
Meteorology	3
Total	24

Elective module Flood risk management (2 nd year)	
Note: Module in English language	
3 rd semester	ECTS*
Spatial planning for flood protection	5
Socioeconomical assessment of flood risk	5
Torrent, erosion, rockfall and avalanche control	4
Numerical methods in fluid dynamics	6
Environmental technologies	4
Total	24

Elective module Hydraulic engineering (2 nd year)	
3 rd semester	ECTS*
Hydraulic structures	8
Water management systems	4
Hydroelectric power	4
Urban drainage and cleaning of waste water	8
Total	24

PROFESSIONAL ELECTIVE COURSES	ECTS*
Slope stabilisation	4
Hydraulic machines and devices	4
Water policy	4
Decision support systems in water management	5
Landscape management	4
Introduction to research work	4
Project in infrastructural systems	4
Selected topics from mathematics III	4
Ecohydrology	4
Geotechnics of infrastructural facilities	6
Practical training	6



2° Year UL Students at UNICAL

Courses WINTER	ECTS	Semester	Module
TERRITORIAL PLANNING	6	1	
DESIGN OF STRUCTURES IN SEISMIC AREAS	9	1	
ENERGY FROM RENEWABLE SOURCES	9	1	
ELECTRICAL SYSTEMS	6	1	
RIVER PROTECTION	6	3	Soil conservation
FLOOD RISK ANALYSIS AND MANAGEMENT	9	3	Soil conservation
DESIGN OF COASTAL AND RIVER STRUCTURES	6	3	Soil conservation
PLANNING ACTIONS FOR WATER SAFETY	6	3	Environmental protection
PROCESSES FOR POLLUTANTS ABATEMENT AND MUNICIPAL SOLID WASTES TREATMENT	9	3	Environmental protection
REMEDICATION OF CONTAMINATED SITES	6	3	Environmental protection

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Courses SUMMER	ECTS	Semester	Module
HYDRAULIC CONSTRUCTIONS FOR SUSTAINABLE DEVELOPMENT	9	2	
HYDROMETEOROLOGICAL AND COASTAL RISK FORECASTING SYSTEMS	9	2	
OPERATING TOOLS FOR HYDRAULIC AND ENVIRONMENTAL STUDIES	6	2	
SUSTAINABLE WATER MANAGEMENT	6	4	
DYNAMICS OF SLOPE AND FLUVIAL PROCESSES	9	4	Soil conservation
SUBSURFACE HYDROLOGY	9	4	Environmental protection

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Courses ELECTIVE	ECTS	Semester	Module
APPLIED GEOLOGY	6	?	
NOISE AND ELECTROMAGNETIC POLLUTION	6	?	
ENVIRONMENTAL LAW	6	?	
ECOLOGICAL RISK MITIGATION	6	?	
REALE ESTATE APPRAISAL	6	?	
ANALYSIS AND ENVIRONMENTAL ASSESSMENT	6	?	
SATELLITE REMOTE SENSING	6	?	

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Benefits



- UL and UNICAL can **annually** decide on
 - Courses offered in English (each)
 - Number of students (each)
 - The requirements (grades, extras...) for students (both together)
 - The courses and recognised module of each individual student (through learning agreement) (each)
-
- Probably the most important: satisfied and happy students

