



AGENCIJA ZA
MOBILNOST I
PROGRAME EU



Erasmus+ 2016

Seminar za jačanje kvalitete prijava Područje visokog obrazovanja

Zagreb, 11. 12. 2015 .



Guidelines for outgoing mobility – ECTS recognition

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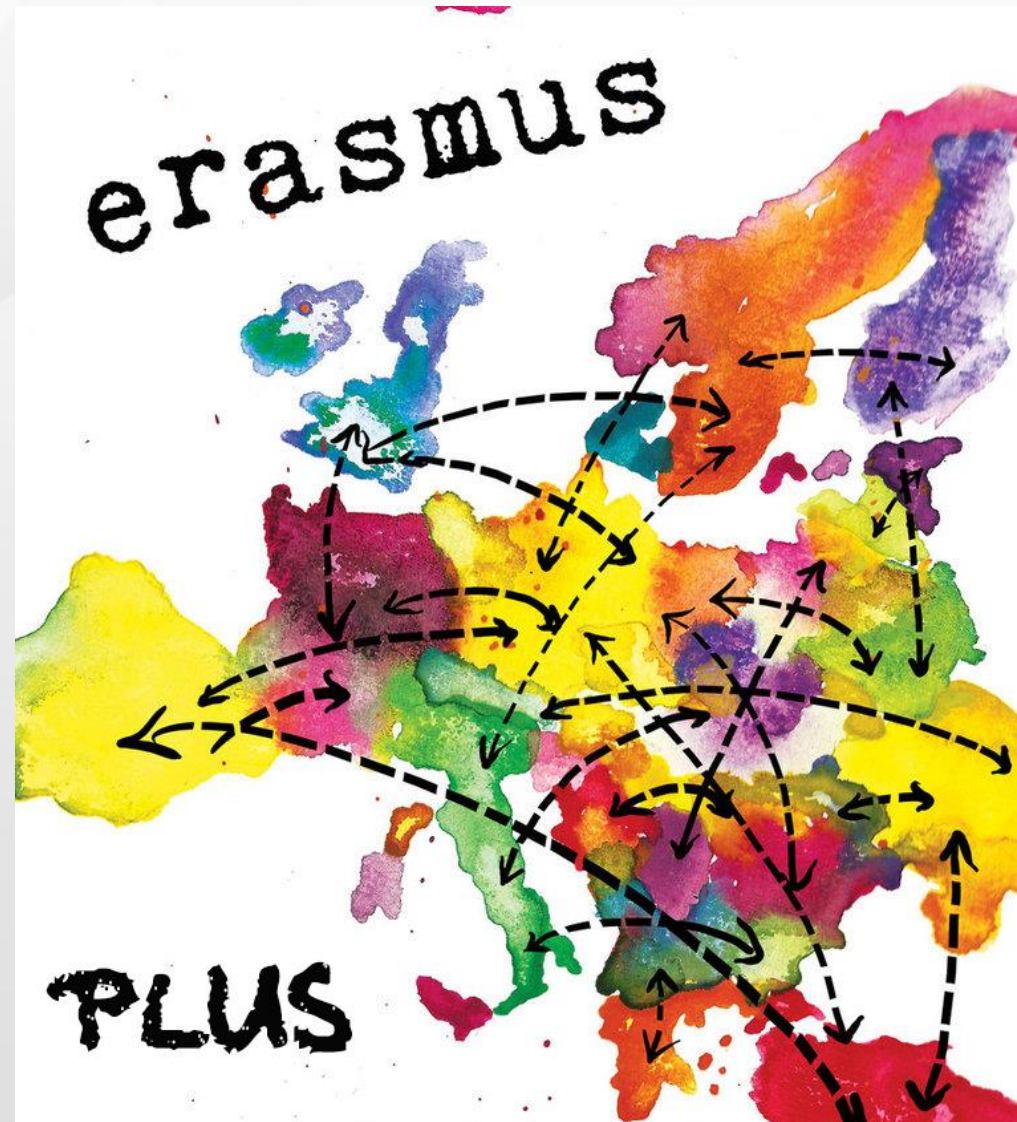
Faculty of Electrical Engineering and Computing

- Education and research in the fields of:
 - Electrical Engineering
 - Computing
 - Information and Communication technology
- Undergraduate, graduate and doctoral studies
- 3500 students
- ~ 60 outgoing students/academic year
- ~ 40 incoming students/academic year



Content

- Instruments:
 - Study Programmes
 - Cooperation Agreements
 - Learning/Training Agreement
- ECTS recognition
 - Transcript of Records
 - Diploma Supplement
- Conclusions





Instruments supporting mobility



Study programmes

- Study programme
 - National Qualification Framework
 - Learning Outcomes
- Compatibility of programmes with leading European universities
- Recommendation of international professional organisations (IEEE, ACM)
- Recommendation of international accreditation agencies for Electrical Engineering and Computer Science (ASIIN)
- Information package



Cooperation Agreements

- Institutional agreements
 - Erasmus+ bilateral agreements
- Exchange of information packages
- Similar study programmes
- Bilateral agreements
 - Students of all study cycles – mobility for studies (SMS)
 - Teaching staff – teaching or training
 - Non-teaching staff – training
- Agreements on FER: for 2015/2016 - 70 agreements, 200 positions for outgoing students, 1281 [month*position]



Educational component

- Self-contained and formal structured learning experience that features learning outcomes, credits and forms of assessment.
- Examples:
 - course,
 - module,
 - seminar,
 - laboratory work,
 - practical work,
 - preparation/research for a thesis,
 - mobility window
 - free electives.



Course selection

- Analyse list of courses (web pages, information packages) of foreign university
- Consult mentor and ECTS co-ordinator
- Take into account the language of instruction for every single course
- Use past experience – students who have participated in the mobility
- Students' forum - Wiki pages



Students' forums

- <http://erasmus.fer.hr>
- <http://erasmus.fer.hr/qa>
- Exchange of information, experience and advices
- **wiki** - pages – information about studies, housing possibilities, extra curricular activities, costs of living, practical advices, list of students participated in mobility on this particular university
- **QA – forum**





How to select courses ?

- We cannot expect that at the host university there are exactly the same courses our students need to enrol in the particular semester
- We are making a plan of enrolment of the courses for the rest of the student's study.
- At the host university student enrolls courses that fit in his/her study programme – regardless of the semester (of the same course at the home university)
- After return, student enrolls the rest of the courses – according to previously agreed plan

How to select courses ?



- Example:
- Student exercises his/her mobility in the 1st semester of his/her graduate study
- At the host university student enrolls courses that are placed in the 3rd semester of the curriculum at his/her home university
- After return, in the 3rd semester, instead of the courses that are recognised from his/her mobility period, s/he enrolls courses that s/he has missed in his/her 1st semester

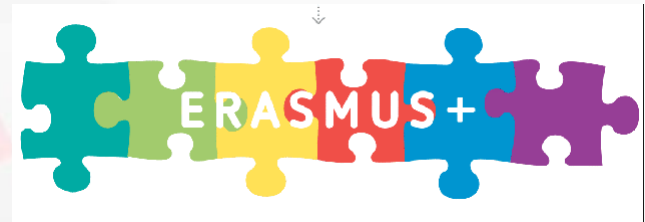
How to select courses



- Example:
 - Student chooses to go to the mobility at the 4th semester of his/her undergraduate study.
 - At the host university s/he can enrol courses that could be recognised as elective courses from his/her 6th semester.
 - In the 6th semester at the home university, s/he enrolls courses from his/her 4th semester that s/he could not find at the host university – instead of the elective courses that have been recognised from his mobility period.
- Warning: it is required to take into account the rules to comply with.

The rules that have to be obeyed

- Undergraduate study
 - Prerequisites
 - Prerequisites for particular course
 - Final thesis cannot be enrolled if the student has not completed his/her Project/ Programming project
 - Compulsory courses
 - Certain amount of ECTS credits for elective courses



The rules to be satisfied by the end of study

- Graduate study
 - Prerequisites
 - Prerequisites for particular course
 - Graduation thesis cannot be enrolled if student has not completed his/her Project/ Programming project
 - Compulsory courses
 - Number of ECTS credits to be acquired from a specific group of courses:
 - Theoretical courses of the profile
 - Specialization courses of the profile
 - Mathematics and Science
 - Humanities
 - Elective courses



The most important rule



- Flexibility!
- There is no need for perfect match between courses
 - ECTS co-ordinators consult the teachers of the courses at the home university
- The hierarchy
 - Theoretical course can replace specialization course or elective course
 - Specialization course – can replace elective courses
 - Mathematics and Science – it could be any M/S course – as agreed with the mentor
 - Humanities – any course from humanities, or the foreign language / language of the host country
 - Elective course – any course from the field of study – in agreement with the mentor

Bachelor/Master Thesis

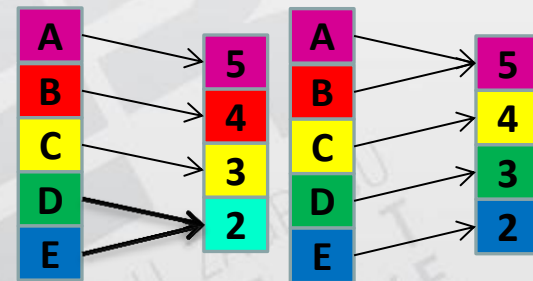
- Cooperation and coordination between two mentors – the mentor from home university and the mentor from host university
- The topic and the rules have to be specified before mobility
- BSc/MSc thesis defence can be organized at the host or home university – in co-ordination between mentors
- We are promoting theses defence with the both mentors – suggesting mentors to use Erasmus+ staff mobility opportunity



Transcript of Records - ToR

- All the original data from the Transcript of Records are transferred to the student's record (course name, **ECTS credits**, numbers of lecture hours, exercises, ...)
- Course name is also translated to Croatian and English
- Mapping of grades into the Croatian grading system

- Direct mapping from ECTS grades
- Using statistical data - grade frequencies



2011/2012	1662	4,69	2,17	3,31	3,79	3,49	5,05	6,98	7,7	8,24	11,55	13	6,92	15,83	7,28
2011/2012	1036	2,7	1,64	2,99	3,18	3,67	4,44	8,3	8,69	11,78	11,58	10,33	8,08	16,51	8,11
2010/2011	529	5,48	2,46	4,16	5,29	3,78	4,73	4,92	8,13	6,99	10,02	11,15	5,86	18,15	8,88
2012/2013	2455	3,71	2,16	3,5	2,97	4,07	5,3	7,41	7,7	8,55	12,51	12,63	7,33	15,76	6,4

- On the Diploma Supplement there are listed all the courses that student completed at the host university along with the university name, programme name and a period of mobility

hours	ECTS credits	date of examination	grade	subject	hours	ECTS credits	date of examination	grade	subject
1	90	5.0 12.2.2013.	5	Laboratory of Information Processing 1	22	30	3.0 14.2.2014.	5	Practical Course Biosignals 2: Emotion and Cognition*
2	45	5.0 5.2.2013.	4	Digital Signal Processing					
3	45	5.0 4.2.2013.	5	Random Processes in Systems	23	30	3.0 14.2.2014.	5	Practical Course Automatic Speech Recognition*
4	45	5.0 31.1.2013.	5	Video Communication Technologies					
5	30	4.0 7.2.2013.	5	Advanced Digital Signal Processing Methods	24	—	30.0 15.12.2014.	5	Master Thesis*
6	30	2.0 29.1.2013.	5	Organizational Psychology					
7	45	4.0 6.2.2013.	5	Extremal Combinatorics					additional ECTS credits
8	45	3.0 17.6.2013.	5	Laboratory of Information Processing 2					—
9	30	3.0 9.7.2013.	5	Seminar					
10	30	4.0 18.6.2013.	5	Digital Image Processing and Analysis					study/work placement mobility
11	45	5.0 28.6.2013.	5	Data Management					* Karlsruhe Institute of Technology, Karlsruhe, Federal Republic of Germany, winter and summer semester 2013/2014., LLP Erasmus
12	45	4.0 20.6.2013.	5	Fourier Analysis					
13	45	4.0 26.6.2013.	5	Linear Algebra					
14	30	2.0 29.6.2013.	5	Research, Publication and Responsibility in Science					
15	57	5.0 21.6.2013.	3	Signal Processing in Communications					
16	60	6.0 30.7.2014.	5	Neural Networks*					
17	60	6.0 7.3.2014.	5	Computer Vision for Human-Computer Interaction*					
18	60	6.0 22.4.2014.	5	Principles of Automatic Speech Recognition*					
19	30	4.0 28.3.2014.	5	Mobile Communication*					
20	60	6.0 14.2.2014.	5	Biosignals and User Interfaces*					
21	60	4.0 8.1.2014.	5	German Course C1*					

Replacement of courses from home university

- Courses completed at the host university are the basis for replacement of courses from home university
 - According to rules and with maximum flexibility!
 - One course can be replaced by fragments of different courses completed at the host university
 - Credits from one course can be split to several courses



Internship

- Internship as a part of the curriculum
- Internship as additional activity
- During the summer (2 or 3 months)
- During the academic year
- During the last semester of Master study – research activities as a part of master thesis research



Conclusions

- To achieve the goal - targeted percentage of exchange students (20% of the number of students enrolled at master study?)
- The system has to be stimulating for students
- Mobility is not the reason for prolongation of the study period
- Flexibility! Especially in forming of learning agreements and course replacements
- All the activities have to be recorded – in the students' records and in the diploma supplement





Erasmus generation

WORK MOBILITY



ECONOMIC GROWTH

STUDENT MOBILITY