

**SPHERE** Support and Promotion for Higher Education Reform Experts

# Models, curriculum development, some examples

#### Tashkent, 23-24 April 2019 Francesco Girotti – University of Bologna (IT)

"Perspectives and methods of organising joint master's programmes in cooperation with European universities on double-degree basis; procedures for the development and implementation of joint educational programme"



### Joint Programmes – CURRICULUM

The core of joint programmes is

# the curriculum

developed jointly, which needs to be designed as a coherent set of modules with common learning outcomes.

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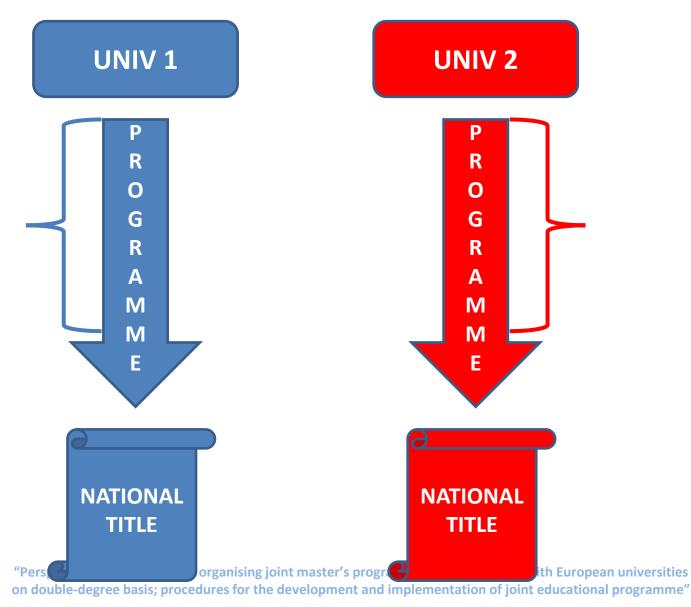


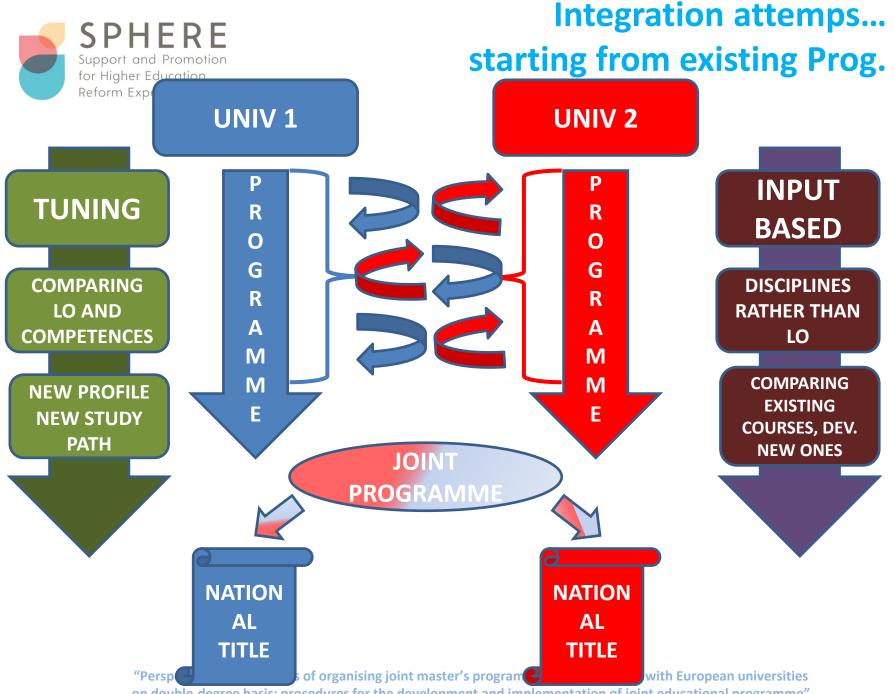
### **Curriculum Development Models**

We can distinguish models in curriculum development observing the <u>starting point</u> of the creation of the Programme (<u>from</u> scratch or <u>from</u> an existing programme") and the <u>methodology</u> adopted to develop the pedagogy (<u>Tuning</u> methodology" based on learning outcomes, or <u>Junut</u> based" based on contents).



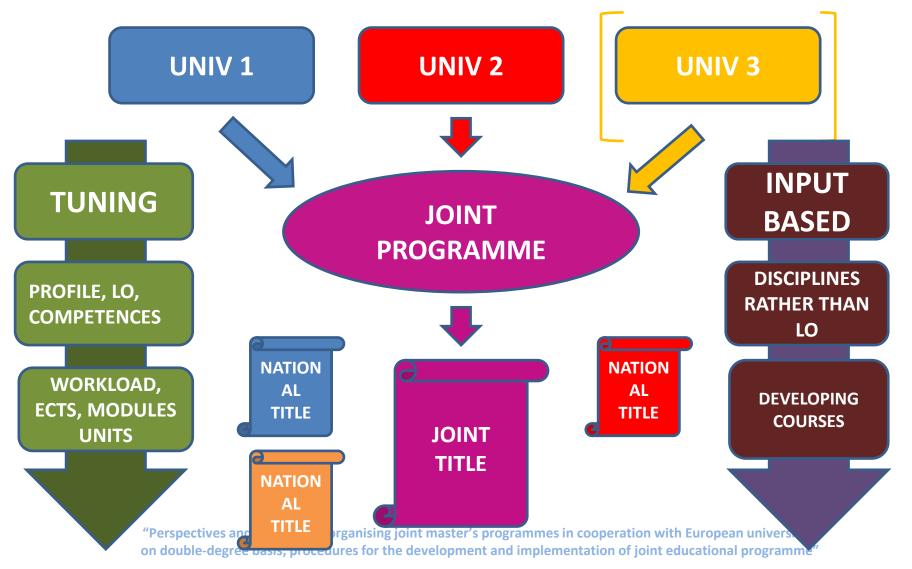
## No integration at all (no JP)





on double-degree basis; procedures for the development and implementation of joint educational programme"

#### SPHERE From Scratch: Support and Promotion for Higher Education towards a single "deed"



**Reform Experts** 



## **Curriculum Development Models**

The development of the curriculum (pedagogy) is affected by different factors:

- The nature of the actors involved and their "curriculum development" culture
- The Quality assurance/accreditation requirements set by national agencies
- The normative restrictions in place at a certain moment in the institutional/national international contexts

Development of the LO, ECTS and contents is only one part of the curriculum development. Academics will also discuss didactical methodologies, different calendars, examination procedures, final dissertation procedures, students regulations, exams etc.



### **Mobility Models**

Mobility **should** predominantly depend on study programme rationale, but it is also affected by the number of partner and funding scheme regulations.

N.B: Negotiations among partners may drive the definition of the paths according to specific interests (e.g Strategicity of first and third semester)

Some examples of mobility tracks (mobility options are infinite).



## **Some Mobility Schemes**

programmes with "core" courses offered by one or more partners, where the students start the degree programme • a one/two semester mobility in a partner university offering specialist courses **Core Courses** • Final thesis at "home" university or at other HEI



#### **Example: Core Courses**

Compulsory subjects (1 <sup>st</sup> semester)
Basics in Sustainable Development
<b>Restricted electives</b> (2 <sup>nd</sup> semester) One track to be chosen from the following options:
Climate & Environmental Change (Graz)
Energy & Resources (Utrecht)
Environmental Evaluation and Management (Venice, Italian only)
Environmental Policy and Management (Utrecht)
Environmental Technology (Leipzig)
Integrated Coastal Zone Management (Venice)
International and European Environmental Law (Utrecht)
Land use & Biodiversity (Utrecht)
Marine Environment (Venice, Italian only)
Renewable Resources (Graz)
Resources Management (Leipzig)
Sustainability: The Social Dimension (Basel)
Sustainable Business Management (Graz)
Sustainable Development Science & Technology (Hiroshima)
Sustainable Urban & Regional Development (Graz)
Technologies and Control of the Environment (Venice, Italian only)
Terrestrial Environment (Venice, Italian only)
Compulsory subjects and electives (3 <sup>rd</sup> semester)
Integration Module and further specialisation
Master's thesis and defence (4 <sup>th</sup> semester)

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**Trip Programmes** 

## **Some Mobility Schemes**

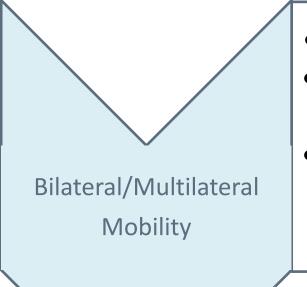
- fixed mobility programmes within the partnership or at all the consortium institutions
- students are together from the beginning to the end
- more than one mobility period

 $\rightarrow$  more expensive for the students in terms of mobility and adaptation;

 $\rightarrow$  suitable for very small consortia



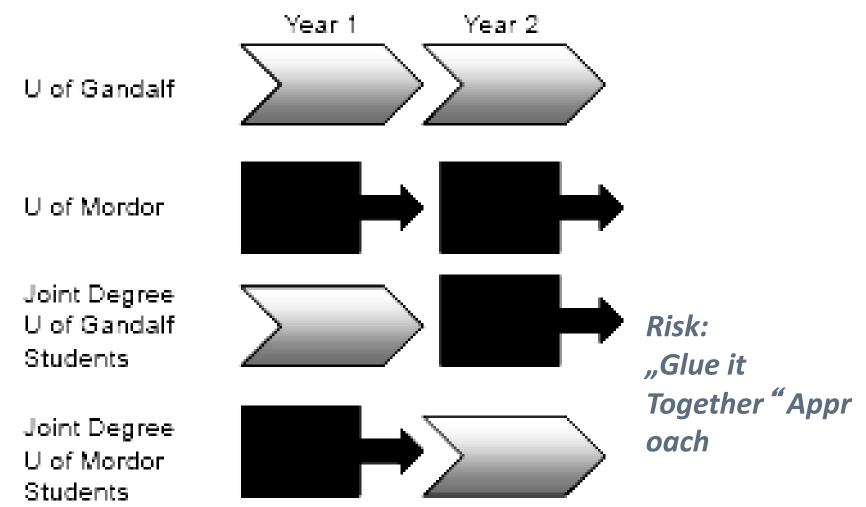
## **Some Mobility Schemes**



- one year at the starting institution
- second year at the second institution + research for the thesis
- mobility destinations may be fixed or chosen depending on the starting institution or on the fees.



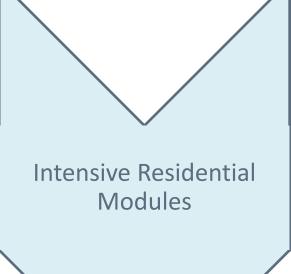
### **Example: Bilateral Mobility**



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### **Some Mobility Schemes**



- one of the above models + intensive residential module s at one of the institutions. Usually outside lecture periods
- placements at companies or other organisations and virtual mobility periods
- for the modules all students are together



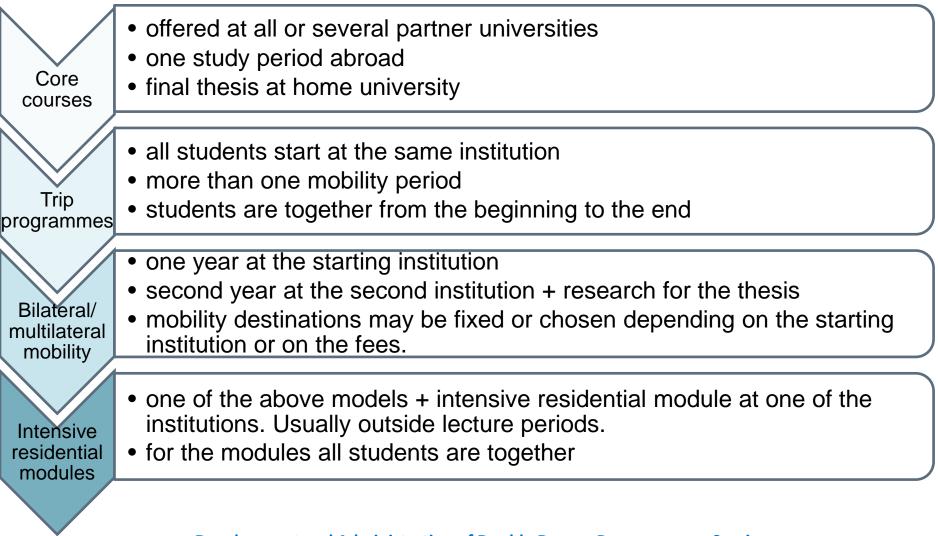
#### **Intensive Residential Modules**

#### Summer/Winter Schools

Intensive residential summer/winter schools may bring all students together and sometimes replacing part of the regular mobility. The teaching community is also together and students are requested to present a proposal for their Master Thesis that will be discussed in working groups together with lectures from the respective universities.



### **Some Mobility Schemes**





Field of Study: Chemistry, Master Level ECTS: 120 (2 years duration) Institutions involved: University of Lille (FR – coordinator) University of Leipzig (DE) University of Bologna (IT) University of Helsinki (FI) University of Kracow (PL) Non degree awarding institutions (ASSOCIATED PARTNERS) Chemical industries, research centres, University networks Costs: 4500€ per year (EU students) 9000€ per year (non Eu students)





Degree awarded: Joint degree and national degrees Concept:

The main idea of the curriculum design is to give a broad but still detailed overview of the state-of-the-art spectroscopic methods used in chemistry, with a particular focus on the most advanced issues addressed by these methods.

Each institutions involved with its own excellence

Lab-Sharing and sharing of unique equipment





<u>Contents of the 4 semesters</u> Semester 1: introductory courses Semester 2: Syncroton radiation (specialisization but offered to all students) Semester 3 and 4 (different specializations and modules at each institutions, including lab work and thesis)

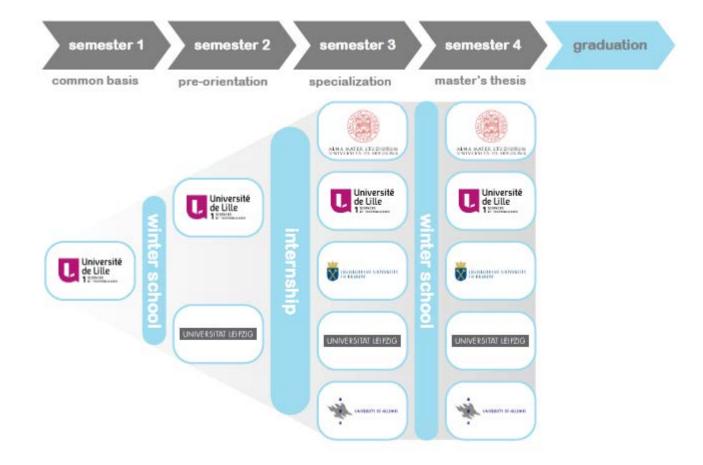
**Innovative elements:** 

Winter school organised together with industries 10 ECTS of soft skills (team working, presentation skills, research skills)

Internship in international industries

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#### Case study: Master en Cultures Littéraires Européennes

#### **Degree awarded: National degrees of the participating institutions**

#### Concept:

The CLE Master Course seeks to provide a high quality preparation reflecting the multicultural aspects of Europe. It is organized by a consortium of EU and non-EU universities.

The CLE Master Course is a **two-year full-time** academic program. At the end of the two-year program, after defending their Master's thesis before an international committee, CLE students receive **two or three diplomas** issued by the universities of the Consortium where they spent at least one semester.

The language in which the courses are offered **may vary** according to the University providing them.

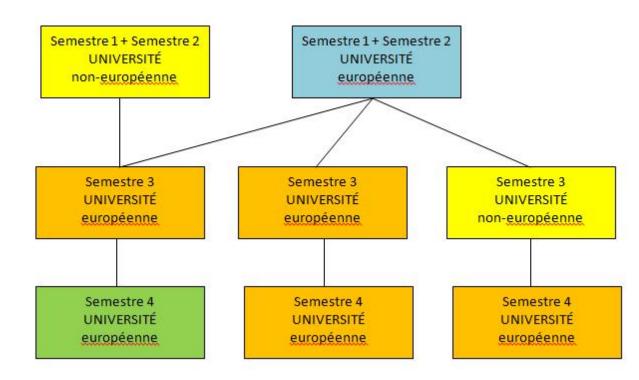


#### Case study: Master en Cultures Littéraires Européennes

#### Students stay in at least 2 partners universities

Partners:

- 1. Università di Bologna
- 2. Université Dakar
- 3. Université de Mulhouse
- 4. Université de Strasbourg
- 5. Université Thessaloniki



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