



Universitat de Lleida

Universitat de Lleida

The 10th European Congress of Higher Agricultural Education (ECHAЕ)

**The Bologna System in Agriculture and Forestry degrees
in Spain.**

Jaume Lloveras and Javier Arantegui

Agronomy – Agricultural/Forestry Engineering

Past plans of studies in Spain

3-year degree. ***Agricultural/Forest Technical Engineer.***

5-year degree. ***Agricultural/Forest Engineer.***

*Possibility of becoming Agricultural/Forest Engineer with two additional courses after the **Technical Engineer degree.***

The 3-year degree is a traditional degree with many job opportunities in the industry or in government

Agronomy – Agricultural/Forestry Engineering

Recent approved plans of studies in Spain
.....to start in the next 2010-2011 course.

4 - year degree (240 ECTS credits).

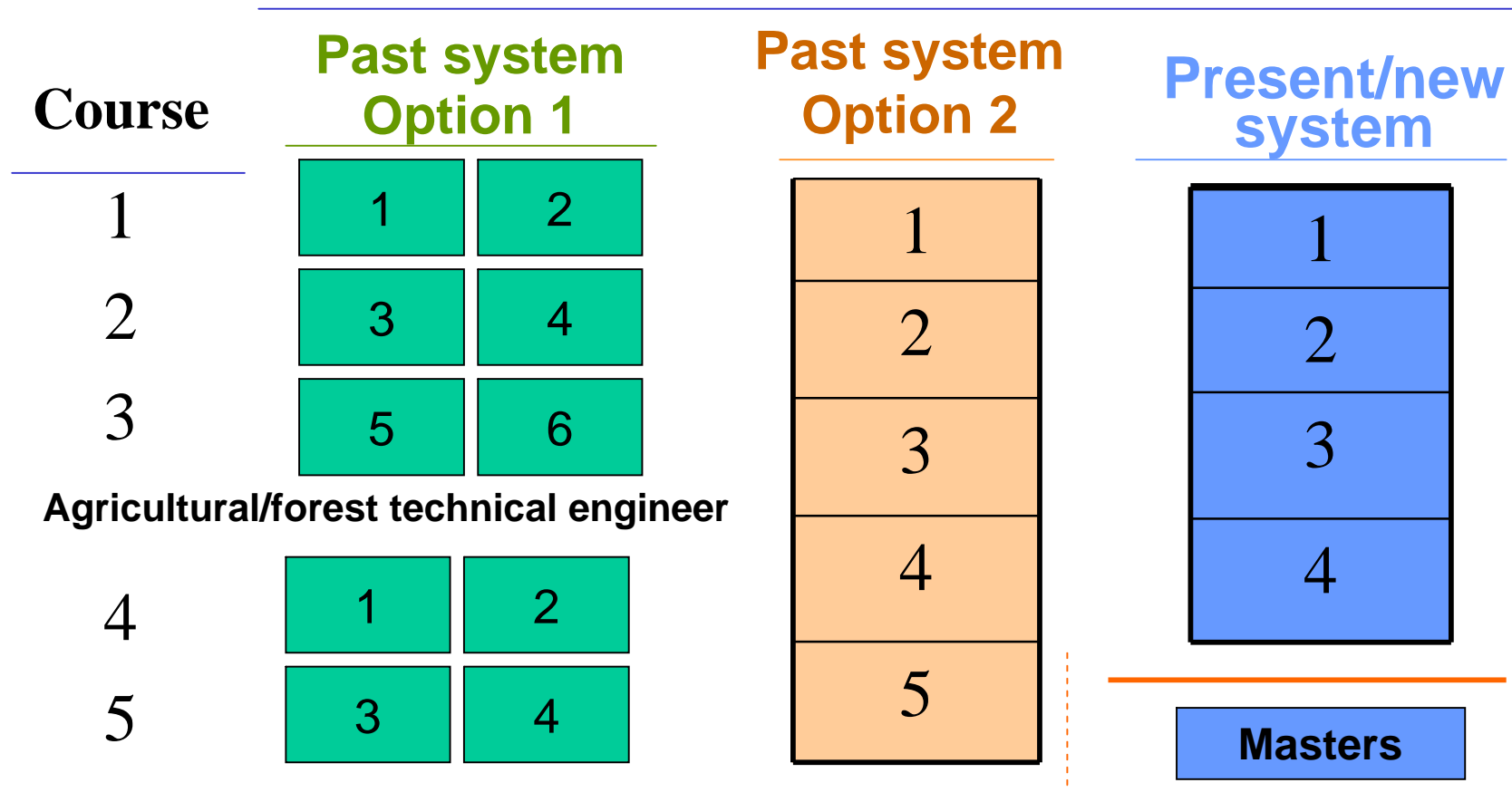
Agricultural/Forest Engineer *(with different specialties).*

(The name of the degree depends on the university)

+ 1- 2 year Master (60 -120 ECTS credits)

‘Official master’ Master Agricultural/Forest Engineer.

Plans of studies



Agricultural/Forest Engineer

Plans of studies

Past Systems

1

2

3

Agricultural/Forestry Technical Engineering

4

5

Agricultural/Forest Engineering

Present System

1

2

3

4

Degree

Masters

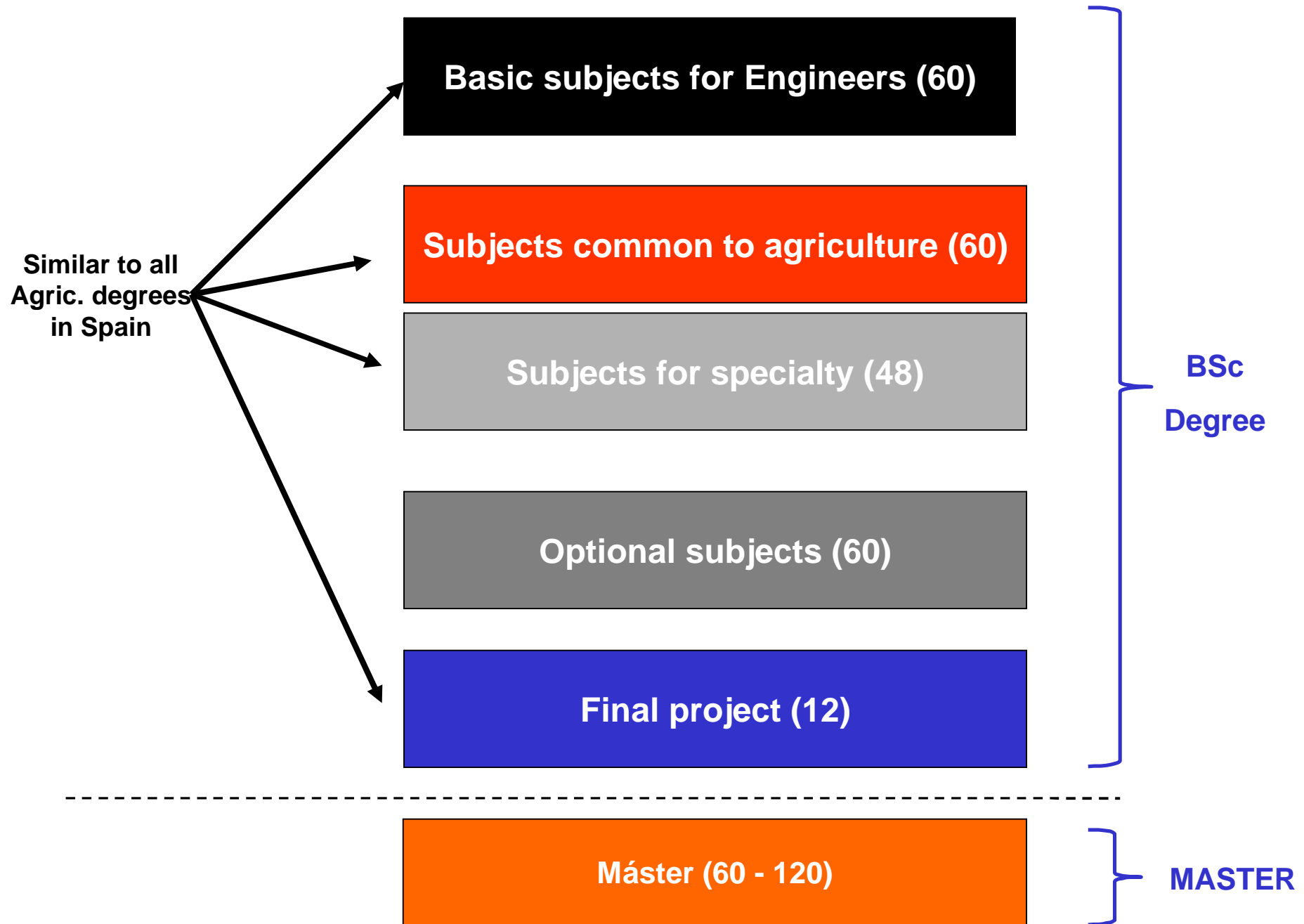
Agronomy – Agricultural/Forestry Engineering

Reasons for the 'new' planning

In Spain, the agronomists/forest are engineers, with the legal rights for planning and designing agricultural and food producing facilities.

The professional associations, of the higher degree Engineers (5 years) pushed the government for a five years degrees. **Finally → **4 - year degrees.****

ECTS DISTRIBUTION for AGRICULTURAL ENGINEERS



One academic course = 60 ECTS Credits

New plans of studies for Agric. Engineers

Approximate distribution

Minimum of 60 ECTS credits per course

1st course

Mathematics, physics, chemistry, biochemistry, biology, technical drawing, economy, computing.

2nd course

Topography, construction, electricity, engines, ecology, genetics, basic animal and crop production, etc.

3rd course

Depending on the specialty

Field crops, pomology, horticulture, animal production, agric. and animal production facilities, irrigation systems, food science and technology, food processing, agric. engines, landscape, etc.

4th course

Advanced courses of the previous subjects, depending of the specialty and **Project end of studies**

Agronomy – Agricultural/Forestry Engineering

Conclusions

The new programs will increase the number of years for obtaining a University degree.

Many Universities with Agricultural/Forestry schools disagree with the new system, because it does not add anything really new, many schools already had a two level system.



Agronomy festivity day





Universitat de Lleida

Universitat de Lleida

Thank you

Campus of ETSEA (School of Life Sciences Engineering)





Universitat de Lleida

Universitat de Lleida



Lleida