Final Examination / Colloquium and award of the degree

10.1 - The final examination / colloquium takes place at Home University.

10.2 - Before the final examination / colloquium all Program students will forward to UNITS the on-line form, duly completed and signed by the student and the two Supervisors, respecting the requirements of the University Administration for issuing the Italian Diploma (see http://www.cspn.units.it/en/didactic/ddmsp/451-application-form-from-hs-owl-to-units)

10.3 - The final examination / colloquium consists in the presentation of an original thesis work. The thesis is an independent academic work solving a complex problem using scientific methods.

10.4 - The master theses will be jointly supervised by UNITS and HS OWL and will be drawn up (in English, with an abstract in the Home University language) under the guidance of a Supervisor, who is a professor of the Home University, and a Co-Supervisor, who is professor of the Partner University. Both Supervisor and Co-Supervisor will be part of the Board of Examiners at the final examination / colloquium. Co-Supervisor will be present in videoconference on all Board of Examiners. The candidate must apply to Teaching Commission for the designation of co-supervisor at the time of assignment of thesis subject.

10.5 - At HS OWL after the thesis has been completed the colloquium can take place. The participants are the candidate, defending his/her thesis, and at least the two Supervisors. At the end of the colloquium the Supervisors decide on one common mark for thesis and colloquium. If they do not agree on one mark, the arithmetical mean of the different marks is taken according to the German procedure. This mark for thesis and colloquium is weighted with 18 credit points.

10.6 - At UNITS after the thesis has been completed the candidate will defend his/her thesis with two different Boards of Examiners. The Pre-Master Thesis Board of Examiners is composed by the Supervisor and the Co-Supervisor (in videoconference) and two other examiners chosen by UNITS President or Vice-President of the Academic Council and will evaluate thesis and colloquium. At the end of the colloquium the Board of Examiners decides on the proposal of one common mark for thesis and colloquium. If they do not agree on one mark, the arithmetical mean of the different marks is determined according to the Italian procedure. The official presentation of the thesis will follow. The participants are the candidate, who will present his/her thesis, and a Board of Examiners composed by the Supervisor and the Co-Supervisor (in videoconference) plus five other Professors chosen by UNITS President or Vice-President of the Academic Council.

10.7 - Marks will be assigned according to the following procedures.

Calculation of the final mark at HS OWL
The candidate has received marks *y1, y2, ..., yn* for the modules of his/her study, the last being the mark for the thesis and colloquium.
n-1: number of marks (exams)
n : final exam mark (thesis)
Each mark has a weight *c1, c2, ..., cn* according to the credit numbers attached to each module, *cn*=18.
The internship is excluded from this calculation.
The final degree *Y* is calculated according to the formula:

*Y = (y1*c1 + y2*c2 + ... + yn*cn) / (c1 + c2 + ... + cn)*

with a precision of two digits behind the comma (the third and further digits are neglected) and stated in the set of documents issued by HS OWL according to 10.11. *Y* is translated into the Italian system according to the formula L = (374 – 44Y)/3, rounded up to the next integer, and is stated in the set of documents issued by UNITS according to 10.11.

Calculation of the final mark at UNITS
The candidate has received marks x1, x2, ...x10 (where 10 is the number of the exams) for the modules of his/her study.
Each mark has a weight c1, c2,....c10 according to the credit numbers deriving from all marks of exams.

The internship is excluded from this calculation.

Sum of credits deriving from all exams: 96
Credits for internship: 6
Credits for thesis: 18
Total credits for the Program: 120

*X = (x1*c1 + x2*c2 + ... + x10*c10) / (c1+c2+...+c10)*

With a precision of one digit behind the comma.

The final degree (L) is calculated according to the formula:

$$L = \frac{108 \cdot X}{30} + P$$

The value of *L* is rounded to the integer. In any case the final mark is: min(*L*,110)
The maximum final mark is 110/110 or "110/110 e lode" ("honours" are given by an unanimous decision of the Board of Examiners).

Where:

X is the weighted average marks according to the ten exams credits, expressed in marks out of thirty

P = mark of the thesis examination given by the Board of Examiners, whose value can be up to 4 on the following basis:
- Time for the Master thesis examination (1 at the end of the 2nd academic year, 0 otherwise)
- Plus 1 up 3 extra points accordingly to the quality of the work.

Note: proposed formulation is closer, not identical, to the standard of our Department. This is because the former formulation causes disparity among students of engineering. L values greater than 110 are exceptional and we need them for evaluation of **Honour "cum Laude"** depending to the number of Laude gained in the course.
With the highest ratings the strictly numerical values are not recognized as reliable because subjective dependant. ECTS European indications have suggested range of values for comparison of profit between several universities.