



# **Bibliometric Criteria for the evaluation of the scientific production of the University**



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### The Board of Governors:

- in the session of last 22<sup>th</sup> November, it has delegated to the Vice Rector for Research the task of preparing a proposal to amend the bibliometric criteria in force within the University, to be approved by the BOG, after consultation with internal academic members of the BOG, Profs. Bazzanella, Fino, Mellano and Velardocchia
- in the session of 28<sup>th</sup> January, agreeing on the evaluation criteria illustrated, it has delegated Prof. Macii the task of drafting the final version of the bibliometric criteria document.

The document has been structured to include the following points:

- Taking into account the evolution occurred in the field in recent years (ANVUR: VQR e ASN)
- Incorporate University strategies designed to encourage and reward the quality of scientific production
- The need for criteria assessing the quality of recent publications (generally from the previous year) without resorting to quotations that have longer maturation times
- For the departments of Architecture, impossibility of peer review, considering the process costs and the magnitude of monographs and chapters to evaluate (more than 400 in 2012)

The evaluation criteria will be used in case of reward distribution.

Objects of the evaluation:

- Journal article
- Book
- Book chapter

Publications mainly for educational purposes are excluded (e.g. collections of transparencies, collections of exercises, sample exams, laboratory notes), conference proceedings, reviews, reprints, translations and reissues.

The curatorship contributes to increase the score, if the author of chapters is also editor of the book.

## Bibliometric Criteria for the evaluation of the scientific production

### Evaluation of Journal articles - Departments of Engineering



For the Departments of Engineering, it is to be considered articles published in journals listed in international databases ISI and Scopus, with the following specifications:

- To assign a score to journal articles with Impact Factor (ISI-JCR) and/or with index SJR (Scimago Journal Rank for SCOPUS), according to the quartiles ISI/Scimago.
- Not all journals ISI are included in JCR or Scimago: journals without IF/SJR or not listed in ISI/Scopus are included in those of class D with a score of 0.
- If the journal belongs to multiple Subject Category, the highest classification has to be considered; the same is true for journals listed on both databases.
- The class of the journal is the publication year of the article (if this data is not available will be used the last classification available).

Product Class	Score
A (1° quartile)	1
B (2° quartile)	0,8
C (3° quartile)	0,5
D (4° quartile or journals not surveyed)	0

## Bibliometric Criteria for the evaluation of the scientific production

### Evaluation of Journal articles - Departments of Architecture

For the Departments of Architecture, it is to be considered articles published in journals surveyed by ANVUR for the ASN and VQR and in journals listed in the international databases ISI and Scopus, with the following specifications:

- Those articles published in journals included in the list of “journals Class A” defined by ANVUR for ASN, shall be classified as class «A»
- Those articles published in journals included in the list of “scientific journals”, published by ANVUR for ASN (in which is not available subdivision of classes), shall be classified as class B/C
- Those articles published in journals ISI/Scopus shall be classified as belonging to the highest class among those indicated in JCR of ISI and/or SJR - Scimago Journal Rank SCOPUS and those applicable to journals on the lists ANVUR (A or B/C).
- Articles published in journals not included in the lists of the ASN but comprised in the list of journals made by GEV 8 of ANVUR for VQR, shall be classified as class B/C

Product Class	Score
A (list «A» ASN o 1° quartile ISI/Scopus)	1
B/C (list ASN, list VQR o 2° and 3° quartile ISI/Scopus)	0,65
D (journals not surveyed in any list or 4° quartile ISI/Scopus or without IF)	0

- For articles of teachers/researchers belonging to the Departments of Engineering but pertaining to scientific disciplinary area (SSD) 08-ARCH area (ICAR from 10 to 22), the evaluation criteria relating to the Departments of Architecture will be applied; vice versa, for articles of teachers belonging to the Departments of Architecture pertaining to SSD referring to other areas than the 08-ARCH, the evaluation criteria relating to the Departments of Engineering will be applied.
- In the case of articles written by both teachers/researchers pertaining to SSD of 08-ARCH area (ICAR from 10 to 22) and teachers/researchers pertaining to SSD referring to other areas than the 08-ARCH, these articles will be scored the maximum point achievable, resulting from the application of both evaluation criteria (Engineering and Architecture).



## Bibliometric Criteria for the evaluation of the scientific production

### Evaluation of Books



Books are evaluated on the basis of few indicators related to the «quality» of the editor and other to the quantity (n° pages) and to the degree of internationalization of the product.

The indicators, to be taken into account for the evaluation, shall be made available by the author. The maximum score for a book is 10.

**essere resi disponibili dall'autore. Il punteggio massimo del libro è 10.**

Criteria	Score
Editor Evaluation (max. 2 points)	
Number of volumes in the catalog > 150 or Number of novelty per year > 30	1
Presence of specific thematic area or similar or Publisher with selection mode	1
Book Evaluation (max. 3 points)	
Quantity	
Number of pages ≤ 48 score = 0 between 49 and 96 score = 1 between 97 and 192 score = 2 > 192 score = 3	3
Internationalization (max. 2 points)	
Volume published in foreign languages (including parallel text)	2
Minimum limite (book with ISBN)	3

## Bibliometric Criteria for the evaluation of the scientific production

### Evaluation of book chapters and curatorship



- The score of book chapters is linked to the book itself, but takes into account the number of pages (the author must make available the same information as required for the evaluation of books as well as for the book referenced chapter).
- The sum of the scores of the chapters by the same author in the same book (same ISBN or equivalent) won't be more than one third of the maximum score attributed to the book. For the evaluation of the departmental structures, the sum of the scores of chapters by authors from the same department and book, shall not be more than one third of the maximum score attributed to the book.

Criteria	Score
Chapters $\geq 10$ pages	0.25* score book
Chapters 4- 9 pages	0.10* score book
Chapters 2-3 pages	0.02* score book

- The above mentioned scores will be increased by 20% if the author of the chapter is also the guardianship of the work.

## Bibliometric Criteria for the evaluation of the scientific production

### Degree of ownership

Individual evaluation of teachers and researchers:

$$\text{Factor} = \left(\frac{1}{n}\right)^{\frac{n-1}{n}}$$

$n =$  Authors number

$n > 10 \rightarrow \text{Factor} = 0,1$

Evaluation of departments:

$$\text{Factor} = \frac{N_{Dipx}}{N_{tot}}$$

$N_{Dipx} =$  Authors number of the Department (PO, PA, Ric, Fellows, Scholars, PhD, PTA, ...)

$N_{tot} = N_{Dip1} + N_{Dip2} + N_{Dip3} + \dots$  autori esterni

Per  $N_{tot}$  grande  $\rightarrow \text{Factor} = 0,1$