

Teaching information systems in an engineering school



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Plan

- An opportunity for change : the reform of engineering schools in Morocco
- Basic training in Information System
- Specialization in Information System
- Conclusion



An opportunity : education reform

- Institutional will to develop Off shoring
è Initiative of 10 000 engineers in 2010
- Institutional reform of engineers training and diploma in Morocco in 2007
- Mohammadia School of engineers :
First polytechnic institute in Morocco, founded in 1959
 - Mineral engineering, civil engineering, electrical engineering
 - **1988 : Software engineering**



IS before the reform

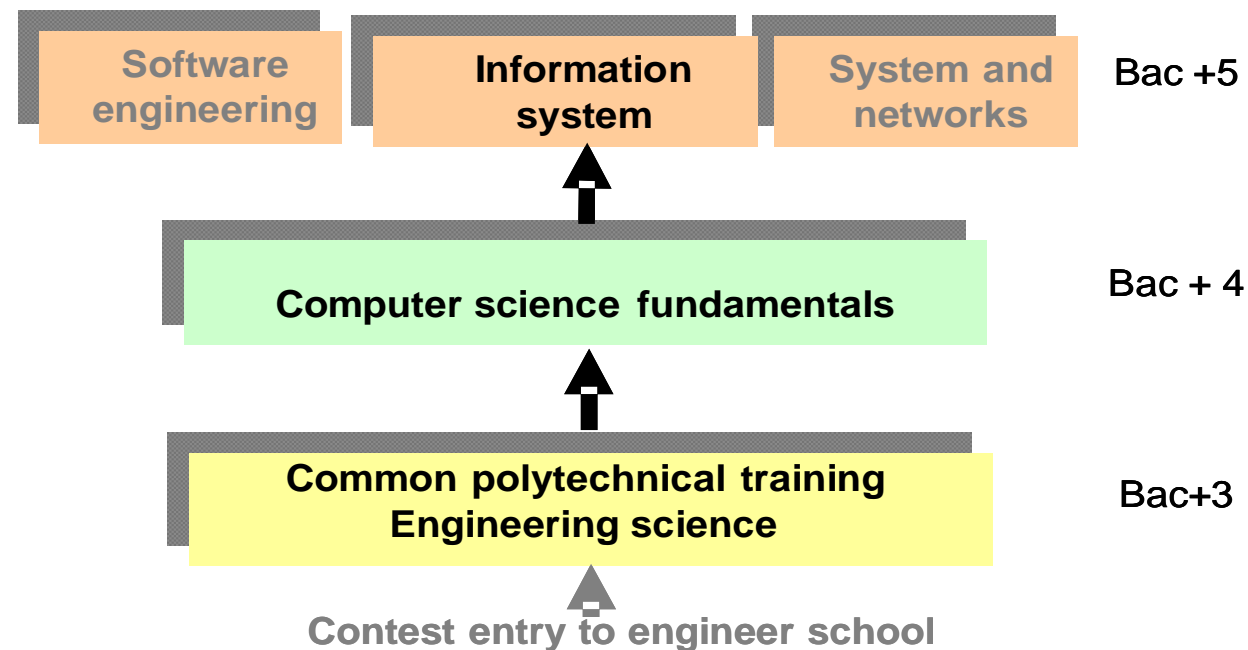
- Software engineering training : wide training with few specialization
- Merge of IS and Software engineering
- Limited background in management è
 - difficulty for understanding the case studies
 - necessity to introduce basic enterprise culture
 - Lack of vocabulary
- Not enough time to teach :
 - IS Strategic issue,
 - Specialized tools like ERP, Data mining...

The EMI process of reform

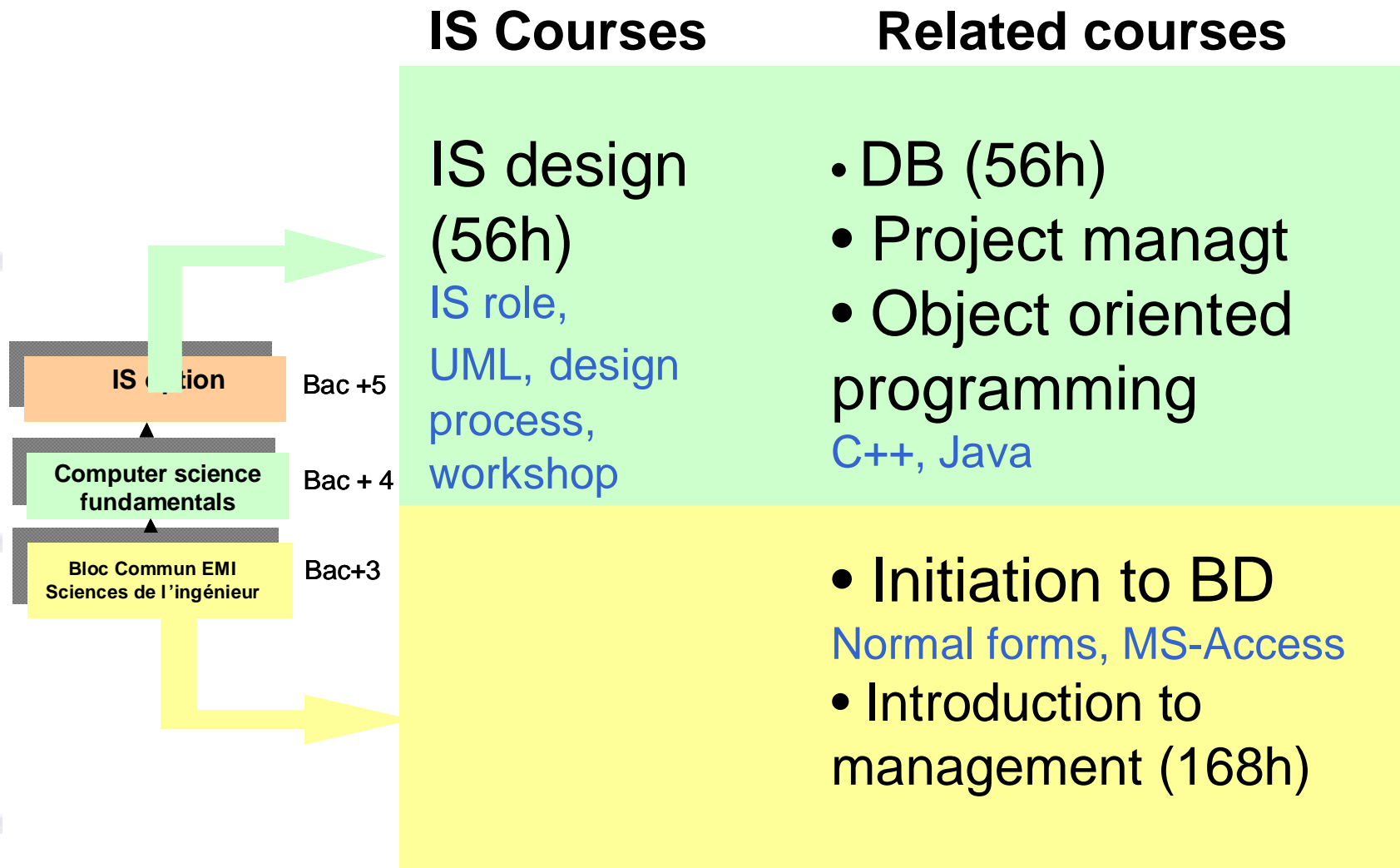
1st phase : Overall architecture studies EMI

- 15% Management
- 15% Communication skills

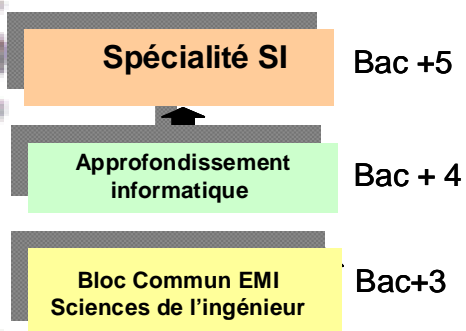
2nd phase : Definition of specific courses



Common curriculum in I S



Specialization in information systems



IS courses (56h)

- IS
Merise
- Specific IS
ERP, SIAD...
- Design comp.
Paradigms, AI,
innovative solutions
- Planning and
evaluation of IS
Audit, IS engineering

Related courses

- Software
production
technics
- Advanced BD
C++, Java
- Projects
- Internship



Conclusion

- The Software engineering curriculum of EMI has been accredited by Moroccan Department of education
- The curriculum has been appreciated by professional actors
- 2nd year after deployment of the curricula è too early for an evaluation
- Guidelines
 - Collaboration with partners in order to implement software platforms like RSA and Mega
 - Involvement of professional actors (alumni) for courses such as ERP
 - To give a Moroccan touch to the case studies