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Europe Our Future: Opportunities resulting from Bologna

Prof. Dr. Dr. h.c. mult. Wolfgang A. Herrmann President of Technische Universität München Chairman of Universität Bayern e. V.



Status 2005 at **T** :

- 20% foreign students
- Average length of study for a *Diplom*/Master's degree: 11.2 semesters
- First Bachelor and Master courses in 1998
- Today over 50 B.Sc. and M.Sc. courses
- 7 international English-language Master's programs
- Modularization and European Credit Transfer System in B.Sc., M.Sc. and Diplom courses adopted (>>Munich Modell<<)
- Complete switch from *Diplom* to B.Sc. / M.Sc. in several faculties (e. g. Civil Engineering and Surveying; Informatics) in 2005



Thesis 1: The Master's degree is to be the standard TUM degree

- Five-year courses (as applicable for *Diploma* courses to date) are to remain the standard
- Main TIII goal is to enable achievement of key R&D qualifications for a career



Thesis 2: The two-step model opens up new options

In geographical terms: Increased international student mobility

In content terms: Provision of non-consecutive courses in addition to normal courses

In terms of time: Gainful employment in suitable occupational fields, including gainful employment between a Bachelor's and Master's course



Thesis 3: Fixed admission quotas for university-based Master's courses are contraproductive

- Quality assessment is a matter of university autonomy
- Rigid rules do not reflect dynamic labor market demands
- Quotas destroy the acceptance of Bachelor's and Master's degrees
- The TIT should be able to decide on further admission criteria on the sole basis of academic considerations



Thesis 4: Restricting the length of consecutive Bachelor's and Master's courses must be part of the concept

- Interlinked B.Sc. / M.Sc. programs prevent prolonged studies
- Highly motivated and capable students receive the goal faster



Thesis 5: Universities and Fachhochschulen have to complement each other regarding their profiles

Modern days economy has a need for scientists, engineers and economists with differing profiles



• There is a need to retain and further develop complementary educational concepts

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Cooperational efforts have to be made

Thesis 6: Admission of Bachelor's graduates from Fachhochschulen to a Master's course at a university is to be granted, depending on strict academic criteria.



Thesis 7: Accreditation of Bachelor's and Master's courses is, at the moment, unscientific and not ambitious enough

Necessary improvement of accreditation:



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Thesis 8:

Identification of B.Sc. & M.Sc. titles with the respective institution

- The <<Dipl.-Ing.>> has to be maintained as a German trade mark academic title
 - More competition is necessary between universities:



Thesis 9: At TUM, teacher training courses have to conform to the Bologna process

's polyvalency model for training academic secondary school teachers (*Gymnasium*):



Note an important specifity:

The job market for teachers is still an exclusive governmental matter!

Thesis 10: Structured doctorate courses are to be established

At post-graduate institutions or as part of elite courses



Thesis 11:

Continued advanced academic training is to be established as the straight-forward extension of the Bologna process



Joint position of the major German Technical Universities (TU-9):

<<The Bachelor opens doors,</pre> the Master's degree is the goal.>>

