1. Modul: [35170] Concentration Laboratory Phonology and Speech Processing
Addition to Module title:

2. Module ID: 052400500
3. Credits Points (CP): 12.0
4. Hours per week in term (sws): 8.0
5. Module Duration: 2 Semester
6. Rotation Cycle: every Semester
8. Module Responsible: Univ.-Prof. Grzegorz Dogil
9. Lecturers:
   - Univ.-Prof. Grzegorz Dogil
   - Wolfgang Wokurek
   - Katrin Schneider
   - Antje Schweitzer
   - Natalie Lewandowskki
   - Katrin Schweitzer
   - Michael Walsh
   - Jagoda Bruni

11. Requirements:
Knowledge of phonetics and phonological theory, acoustic phonetics

12. Learning Targets:
Advanced knowledge in at least two subareas of laboratory phonology and speech processing; students are able to understand current scientific contributions in the field and apply concepts and methods from laboratory phonetics and speech processing to new problem settings; they are able to relate insights from phonetics and phonology to research questions in computational linguistics and speech technology.

13. Course Contents:
Selection of courses comprising a total of 8 SWS from at least two subareas of laboratory phonology and speech processing:
- Speech recognition (2 SWS)
- Speech synthesis (2 SWS)
- Experimental phonetics (2 SWS)
- Laboratory phonology (2 SWS)
- Language and speech in the human brain: Advanced methods in neurolinguistics and neurophonetics (2 SWS)
- Probabilistic models of language and cognition (2 SWS)
- Voice Quality (2 SWS)
- further courses from the MCL catalogue that are announced for this concentration

14. References/Learning Aids:
Daniel Jurafsky and James H. Martin, 2008, Speech and Language Processing, An Introduction to Natural Language Processing, Computational Linguistics and Speech Recognition, Prentice Hall
Paul Taylor, 2009, Text-to-speech synthesis, Cambridge University Press
1. Modul: [35170] Concentration Laboratory Phonology and Speech Processing
Addition to Module title:

15. Course:
- [351701] Speech Technology (Translation not available)
- [351702] Experimental Phonetics / Laboratory Phonology (Translation not available)
- [351703] Brain, Speech and Language (Translation not available)
- [351704] Speech perception and production (Translation not available)
- [351705] Miscellaneous Topics (Translation not available)

16. Estimation of Student Workload:
Präsenzzeit: 112h,
Selbststudium: 240h

17a. Study Achievements (Unmarked):

17b. Examination Achievements (Marked):

18. Basic for:

19. Media Form:
Tafel, Folienprojektion

20. Exam names and numbers:
- [35171] Concentration Laboratory Phonology and Speech Processing (Translation not available) ( PL ) mündliche Prüfung Gewichtung: 1.0
- [35172] Vorleistung (Translation not available) ( USL-V ) schriftlich, eventuell mündlich Gewichtung: 1.0

21. Offered by:
Institut für Maschinelle Sprachverarbeitung