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

7. Language: English

8. Module Responsible: Univ.-Prof. Grzegorz Dogil

9. Lecturers:
   - Univ.-Prof. Grzegorz Dogil
   - Wolfgang Wokurek
   - Katrin Schneider
   - Antje Schweitzer
   - Natalie Lewandowsk
   - 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 Maschinelles Sprachverarbeitung |

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Date: 25. October 2017