1. Modul: [35170] Concentration Laboratory Phonology and Speech Processing

Addition to Module title:

2. Module ID: 052400500
5. Module Duration: 2 Semester

3. Credits Points (CP): 12.0
6. Rotation Cycle: every Semester

4. Hours per week in term (sws): 8.0
7. Language: English

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

9. Lecturers:
   - Univ.-Prof. Grzegorz Dogil
   - Wolfgang Wokurek
   - Katrin Schneider
   - Antje Schweitzer
   - Natalie Lewandowski
   - 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) |
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<th>16. Estimation of Student Workload:</th>
<th>Präsenzzeit: 112h, Selbststudium: 240h</th>
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<tr>
<th>17a. Study Achievements (Unmarked):</th>
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<th>17b. Examination Achievements (Marked):</th>
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<th>18. Basic for...:</th>
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<th>19. Media Form:</th>
<th>Tafel, Folienprojektion</th>
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| 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 |
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<th>21. Offered by:</th>
<th>Institut für Maschinelle Sprachverarbeitung</th>
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Date: 24. November 2018