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

## Addition to Module title:

<table>
<thead>
<tr>
<th>2. Module ID:</th>
<th>052400500</th>
<th>5. Module Duration: 2 Semester</th>
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<tbody>
<tr>
<td>3. Credits Points (CP):</td>
<td>12.0</td>
<td>6. Rotation Cycle: every Semester</td>
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<td>4. Hours per week in term (sws):</td>
<td>8.0</td>
<td>7. Language: English</td>
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<td>8. Module Responsible:</td>
<td>Univ.-Prof. Grzegorz Dogil</td>
<td></td>
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</tbody>
</table>
| 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 |
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