Degree Programme Table: Natural Language Processing (PhD with Integrated Study) - Full-time 4 Years

Year 1

Notes: During the first three years of this programme students must complete 180 credits worth of courses, 150 of which have to be at level 11 or higher.

new courses

Compulsory courses

Doing research in NLP [level 11, 20 credits] Group project in andvanced NLP [level 11, 20 credits] Individual project in advanced NLP [level 11, 40 credits]

Course options

Group A: Select between 20 and 60 credits in this group

Foundational courses in NLP: Accelerated natural language processing Machine learning and pattern recognition Machine learning practical Computer programming for speech and language processing Speech processing Introduction to phonology and phonetics Introduction to morphology Introduction to syntax

Group B: Select between 10 and 60 credits in this group

Specialist courses in NLP: Natural language understanding, generation, and machine translation Probabilistic modelling and reasoning Neural information processing Human-computer interaction The human factor: working with users Automatic speech recognition Speech synthesis Simulating language Sentence comprehension Discourse comprehension Language production Speech production and perception

Group C: Select between 0 and 20 points in this group

Level 9 to 11 courses in Schedules A to Q, T and W

Year 2

Notes: During the first three years of this programme students must complete 180 credits worth of courses, 150 of which have to be at level 11 or higher.

Compulsory courses

Controversies in the data society [level 11, 20 credits] offered by SSPS

Course options

Group A: Select between 0 and 20 credits in this group

Foundational courses in NLP: Accelerated natural language processing Machine learning and pattern recognition Machine learning practical Computer programming for speech and language processing Speech processing Introduction to phonology and phonetics Introduction to morphology Introduction to syntax

Group B: Select between 0 and 60 credits in this group

Specialist courses in NLP:

Natural language understanding, generation, and machine translation Probabilistic modelling and reasoning Neural computation Neural information processing Human-computer interaction The human factor: working with users Automatic speech recognition Speech synthesis Simulating language Sentence comprehension Discourse comprehension Language production Speech production and perception

Group C: Select between 0 and 20 points in this group

Level 9 to 11 courses in Schedules A to Q, T and W

Year 3

Notes: During the first three years of this programme students must complete 180 credits worth of courses, 150 of which have to be at level 11 or higher.

No compulsory courses

Course options

Group B: Select between 0 and 40 credits in this group

Specialist courses in NLP: Natural language understanding, generation, and machine translation Probabilistic modelling and reasoning Neural computation Neural information processing Human-computer interaction The human factor: working with users Automatic speech recognition Speech synthesis Simulating language Sentence comprehension Discourse comprehension Language production Speech production and perception

Group C: Select between 0 and 20 points in this group

Level 9 to 11 courses in Schedules A to Q, T and W

Year 4

Notes: By year 4 students must have achieved 180 credits as detailed in years 1-3 of the DPT. There are no taught elements in year 4.