Module Guide for the Study Path

Master Psychology
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# arbitrary semester

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## CS3010-KP04, CS3010 - Human-Computer-Interaction (MCI)

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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>4</td>
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</table>

### Course of study, specific field and term:
- Bachelor Medical Informatics since 2019 in planning (optional subject), computer science, 4th to 6th semester
- Master Biophysics (optional subject), Elective, 1st semester
- Master Psychology (optional subject), interdisciplinary competence
- Bachelor Computer Science since 2016 (compulsory), foundations of computer science, 5th semester
- Bachelor IT-Security (compulsory), computer science, 3rd semester
- Bachelor Robotics and Autonomous Systems (optional subject), computer science, 5th or 6th semester
- Master Entrepreneurship in Digital Technologies (optional subject), interdisciplinary competence, arbitrary semester
- Master psychology (optional subject), interdisciplinary competence, 3rd semester
- Master Medical Informatics (optional subject), computer science, 1st or 2nd semester
- Bachelor Computer Science 2014 and 2015 (compulsory), foundations of computer science, 5th semester
- Bachelor Medical Informatics since 2014 (optional subject), computer science, 5th or 6th semester

### Classes and lectures:
- Human-Computer-Interaction (lecture, 2 SWS)
- Human-Computer-Interaction (exercise, 1 SWS)

### Workload:
- 55 Hours private studies
- 45 Hours in-classroom work
- 20 Hours exam preparation

### Contents of teaching:
- Introduction and overview of the topic area
- Norms and legal foundations
- Human information processing and processes of actions
- Models for human-computer systems and interactive media
- Input/Output devices and interaction technologies
- User-centered development process and special groups of users
- Usability Engineering
- System paradigms and corresponding system examples
- Evaluation and impact analyzes
- Innovative concepts and systems

### Qualification-goals/Competencies:
- The students know the principles and methods of the context-, task- and user-centered development of interactive systems.
- They have basic knowledge about human information processing and can introduce it into the design process.
- They know the basic models of interactive systems and can apply them for their analysis and evaluation.
- They have the ability to analyze and review interactive systems based on criteria.

### Grading through:
- portfolio exam

### Responsible for this module:
- Prof. Dr.-Ing. Nicole Jochems

### Teacher:
- Institute for Multimedia and Interactive Systems
- Prof. Dr.-Ing. Nicole Jochems

### Literature:
- M. Dahm: Grundlagen der Mensch-Computer-Interaktion - Pearson Studium, 2006

### Language:
- offered only in German
## PY5310-KP04, PY5310 - Human Genetics (Psychology) (WPGenetik)

<table>
<thead>
<tr>
<th>Duration:</th>
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<td>1 Semester</td>
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### Course of study, specific field and term:
- Master Psychology (optional subject), psychology
- Master psychology (optional subject), psychology

### Classes and lectures:
- Participation in genetic counselling (team work, 1 SWS)
- Basic knowledge of genetics (seminar, 1 SWS)

### Workload:
- 70 Hours private studies
- 35 Hours in-classroom work

### Contents of teaching:
- Participation in genetic counselling
- Basic knowledge of a) frequent genetic conditions
- Predictive genetic diagnostics
- Preimplantation genetic diagnosis
- Hereditary tumor conditions
- Knowledge of ethical problems especially concerning prenatal diagnosis

### Qualification-goals/Competencies:
- Knowledge about genetic basis of diseases
- Conversation skills in genetic counselling
- Interdisciplinary team working
- Skills to take part in ethical discussions

### Grading through:
- Viva Voce or test

### Responsible for this module:
- Prof. Dr. rer. nat. Christine Zühlke

### Teacher:
- Institute of Human Genetics
- Prof. Dr. rer. nat. Christine Zühlke
- Priv.-Doz. Dr. med. Yorck Hellenbroich
- Dr. med. Irina Hüning

### Literature:
- Murken, Grimm, Holinski-Feder & Zerres: Taschenbuch Humangenetik - 2011
- Schaaf & Zschocke: Basiswissen Humangenetik - 2007

### Language:
- offered only in German
## PY5370-KP04, PY5370 - Debates and Crises in Psychological Science (Debatten)

| Duration: 1 Semester | Turnus of offer: each summer semester | Credit points: 4 |

### Course of study, specific field and term:
- Master Psychology (optional subject), psychology
- Master psychology (optional subject), psychology

### Classes and lectures:
- Debates and Crises in Psychological Science (seminar, 2 SWS)

### Workload:
- 90 Hours private studies
- 30 Hours in-classroom work

### Contents of teaching:
- Holzkamp and the advent of Critical Psychology
- Right-wing psychology?
- Behaviourism and Cognitive Turn
- Replication crisis and the crisis of null-hypothesis significance testing
- Voodoo Correlations
- Cultural Neurosciences
- Popper and his critique of psychoanalysis

### Qualification-goals/Competencies:
- Students learn to critically reflect on the scientific traditions and lines of dissent in their field (psychology)
- Students develop an epistemological (what can we know?) approach to neuroscience and psychology

### Grading through:
- written homework
- contributions to the discussion
- active participation in the exercises

### Responsible for this module:
- Prof. Dr. rer. nat. Jonas Obleser

### Teacher:
- Institute for the History of Medicine and Science Studies
- Institute for Psychology I
- Prof. Dr. rer. nat. Jonas Obleser
- Prof. Dr. med. Cornelius Borck
- Prof. Dr. phil. Lisa Malich

### Literature:
- : - will be announced later

### Language:
- offered only in German

### Notes:
Planned agenda: preparatory meeting in April to introduce the literature; reading weeks without weekly meetings, block event on a half-day basis at the end of the semester
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<td>each winter semester</td>
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**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, 1st or 3rd semester
- Master Psychology (optional subject), psychology, 1st or 3rd semester

**Classes and lectures:**
- Neuroanatomy (lecture, 1 SWS)
- Neuroanatomy (practical course, 1 SWS)

**Contents of teaching:**
- Basic introduction to the human development and structural anatomy of the central, peripheral and autonomic nervous system and sense organs; Knowledge and understanding of the main functional systems of the brain
- Modern methods of structural and functional neuroimaging
- Distinct and common neurological disorders
- During practical sessions, basic topics like vascular supply, ventricles, cranial nerves, basal ganglia, cerebellum and brainstem are analyzed and dissected

**Workload:**
- 90 Hours private studies
- 30 Hours in-classroom work

**Qualification-goals/Competencies:**
- Acquiring basic skills in neuroanatomy and neuroimaging
- Understanding physiology and pathophysiology by macroscopic dissection of human brains

**Grading through:**
- written exam
- B-Certificate (not graded)
- attendance at exercises

**Responsible for this module:**
- Prof. Dr. med. Jürgen Westermann

**Teacher:**
- Institute of Anatomy
- Dr. med. Antje Klinger

**Language:**
- offered only in German
## PY4010-KP10 - Advanced methods in behavioral sciences and neurosciences (MeVerNeu)

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<tr>
<td>1 Semester</td>
<td>each winter semester</td>
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### Course of study, specific field and term:
- Master psychology (compulsory), psychology, 1st semester
- Master Psychology (compulsory), psychology, 1st semester

### Classes and lectures:
- Multivariate Methods (lecture with exercises, 2 SWS)
- Multivariate Methods (seminar / exercises, 2 SWS)
- Clinical and neuroscientific research methods (lecture with exercises, 2 SWS)

### Workload:
- 105 Hours in-classroom work
- 100 Hours private studies and exercises
- 95 Hours exam preparation

### Contents of teaching:
- **MULTIVARIATE ANALYSES:**
  - Overview on the various relevant multivariate methods, including
  - multivariate regression analysis
  - logistic regression
  - hierarchical linear models
  - confirmatory and exploratory factor analysis
  - structural equation modelling in general
  - cluster analysis and pattern recognition
- **CLINICAL AND NEUROSCIENTIFIC RESEARCH METHODS:**
  - An introduction to the relevant research methods, incl. PET, fMRI, EEG, eye tracking, lesion studies, statistics for small samples and single cases
- **TUTORIAL ON MULTIVARIATE ANALYSES:**
  - Computerized Interpretation of given data sets using multivariate analysis

### Qualification-goals/Competencies:
- Acquire a deeper understanding in planning, running, and analysing more complex research designs
- Acquire the ability to run and interpret data analyses using established statistical analysis software (e.g SPSS, R, Matlab).
- Refined methodological, mathematical, and analytic thinking
- Extended ability to choose the adequate methods for a given research problem

### Grading through:
- Exercises
- written exam

### Responsible for this module:
- Prof. Dr. rer. nat. Jonas Obleser

### Teacher:
- Institute for Psychology I
  - Prof. Dr. rer. nat. Jonas Obleser
  - Dr. rer. nat. Michael Plöchl

### Literature:
- Rudolf und Müller: Multivariate Verfahren - (2012) Hogrefe
- Eid, Gollwitzer & Schmidt: Statistik und Forschungsmethoden - (2013) Beltz

### Language:
- offered only in German
Notes:
The module examination is considered passing if it was graded as at least sufficient.
# PY4100-KP08 - Nosology of Mental Disorders (NosPsych)

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<td>1 Semester</td>
<td>each winter semester</td>
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## Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 1st semester

## Classes and lectures:
- lecture 1 psychotherapy (lecture, 2 SWS)
- course 1 psychotherapy (seminar with practical exercises, 2 SWS)
- course 2 psychotherapy (seminar with practical exercises, 2 SWS)

## Workload:
- 105 Hours in-classroom work
- 95 Hours private studies and exercises
- 40 Hours exam preparation

## Contents of teaching:
- WORKSHOPS WITH PATIENT PRESENTATION AND THE FOLLOWING TOPICS:
  - Communication, therapeutic relationship and iterative hypothesis testing
  - Unipolar and bipolar depressive disorders
  - Panic disorder and agoraphobia
  - Social phobia
  - Posttraumatic stress disorder
  - Generalized anxiety disorder
  - Substance use disorder
  - Schizophrenia
  - Personality disorders
  - Comorbid mental and medical disorders
  - Adjustment disorders
  - Obsessive compulsive disorders
  - Dementia
  - Somatic symptom disorder
  - Eating disorder

## Qualification-goals/Competencies:
- Factual knowledge about the symptomatology, classification, epidemiology, course and specific psychopathology of the listed disorders
- Procedural knowledge: ability to communicate with patients about nosological issues
- Metacognitive knowledge about hypothesis generation processes during semi-standardized interviews

## Grading through:
- written exam

### Responsible for this module:
- Prof. Dr. Ulrich Schweiger

### Teacher:
- Clinic for psychosomatics and psychotherapy
- Clinic of Psychiatry and Psychotherapy
- MitarbeiterInnen des Instituts

### Literature:
- Kaplan & Sadock: Synopsis of Psychiatry: behavioral sciences, clinical psychiatry - Williams & Wilkins
- Berger: Psychische Erkrankungen

### Language:
- offered only in German

### Notes:
The module examination is considered passing if it was graded as at least sufficient.
# PY5200-KP08, PY5200 - Cognitive Neurosciences (KogNeuro)

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<td>1 Semester</td>
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**Course of study, specific field and term:**
- Master Psychology (compulsory), psychology, 1st semester
- Master Auditory Technology (optional subject), psychology, 1st semester
- Master psychology (compulsory), psychology, 1st semester

<table>
<thead>
<tr>
<th>Classes and lectures:</th>
<th>Workload:</th>
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<tr>
<td>lecture in Neuropsychology (lecture, 2 SWS)</td>
<td>166 Hours private studies</td>
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<tr>
<td>course in Neuropsychology1 (seminar, 2 SWS)</td>
<td>74 Hours in-classroom work</td>
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<td>course in Neuropsychology 2 (seminar, 1 SWS)</td>
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**Contents of teaching:**
- History and Methods of Cognitive Neuroscience
- Consciousness
- Attention
- Cognitive Control
- Social Control
- Motor Control
- Sleep and Memory
- Language
- Mental Arithmetic
- Emotion and Motivation
- Music perception
- Decision making
- Cognitive Functions of the cerebellum

**Qualification-goals/Competencies:**
- Understanding of methods of cognitive neuroscience
- Understanding of experimental designs in cognitive neuroscience
- Knowing structure-function relationship of the brain
- Self competency in terms of critical reflection and work with scientific literature
- Ability to structure newly acquired knowledge

**Grading through:**
- Written report
- Written exam

**Responsible for this module:**
- Prof. Dr. rer. nat. Ulrike Krämer

**Teacher:**
- Institute for Psychology II
- Department of Neurology

**Literature:**
- Karnath & Thier: Kognitive Neurowissenschaften - Springer
- Jäncke: Lehrbuch Kognitive Neurowissenschaften - Huber
Language:
- offered only in German
### PY4810-KP08, PY4810 - Pain (WPSchmerz)

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<td>2 Semester</td>
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#### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, 2nd and 3rd semester
- Master psychology (optional subject), psychology, 2nd and 3rd semester

#### Classes and lectures:
- Pain (seminar, 4 SWS)

#### Workload:
- 150 Hours private studies
- 60 Hours in-classroom work

#### Contents of teaching:
- Basic psychological and medical knowledge about pain and psychotherapeutic treatment of pain
- Psychological anamnesis and diagnostic in acute and chronic pain
- Behaviour-oriented therapy in acute and chronic pain
- Psychological principles and treatment of different pain syndromes (e.g., headache, face pain, ischemia and vascular pain, neuropathic pain, back pain, muscle and joint pain, bone pain, visceral pain
- Pain and pain treatment in special groups of patients (e.g., children, superior age, patients with a migration background, patients with cognitive impairment)
- Pain and psychological treatment in different clinics (surgery, neurology, internal medicine, cardiology, gynaecology, orthopaedics, dermatology, ENT, oncology, palliative care, rehabilitation clinics)

#### Qualification-goals/Competencies:
- The students should acquire basic knowledge and skills in the application of psychological rules for acute and chronic pain
- They are able to integrate knowledge in different medical fields and to implement the knowledge in practice
- Purchase of psychotherapeutic basics in pain
- Students should be able to capture chronic pain in a bio-psycho-social model and also capture its impact

#### Grading through:
- Oral presentation
- written exam

#### Responsible for this module:
- Prof. Dr. phil. Dipl.-Psych. Michael Hüppe

#### Teacher:
- 

- Prof. Dr. phil. Dipl.-Psych. Michael Hüppe

#### Literature:
- Fritsche, G. & Gaul (Hrsg.): Multimodale Schmerztherapie bei chronischen Kopfschmerzen - 2013, Verlag Thieme, Stuttgart
- Otis JD: Managing chronic pain - 2007, Oxford University Press, Oxford

#### Language:
- offered only in German

#### Notes:
Attention: This module lasts about 2 semester. The module examination is considered passing if it was graded as at least sufficient.
# Module Guide

## PY4820-KP04, PY4820 - Psychopathology (WPPsypa)

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<th>Duration: 1 Semester</th>
<th>Turnus of offer: each semester</th>
<th>Credit points: 4</th>
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</table>

### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, 2nd or 3rd semester
- Master psychology (optional subject), psychology, 2nd or 3rd semester

### Classes and lectures:
- course in abnormal psychology (seminar-style lectures, 2 SWS)

### Workload:
- 70 Hours private studies
- 20 Hours in-classroom work
- 15 Hours written report

### Contents of teaching:
- Active participation in diagnostic interviews

### Qualification-goals/Competencies:
- 

### Grading through:
- Written report

### Responsible for this module:
- Prof. Dr. Ulrich Schweiger

### Teacher:
- Clinic of Psychiatry and Psychotherapy
- Clinic for psychosomatics and psychotherapy
- Anna Katharina Josek

### Literature:

### Language:
- offered only in German

### Notes:
- The module examination is considered passing if it was graded as at least sufficient.
## PY4840-KP04 - Healthy and pathological ageing (PsyAlt)

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<thead>
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<tbody>
<tr>
<td>1 Semester</td>
<td>each semester</td>
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</table>

### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, 2nd or 4th semester

### Classes and lectures:
- course in healthy and pathological ageing (seminar with practical exercises, 2 SWS)

### Workload:
- 90 Hours private studies and exercises
- 30 Hours in-classroom work

### Contents of teaching:
- Neuronal and cognitive bases of healthy and pathological ageing
- Current methods in ageing research: experimental designs, concepts, imaging methods (e.g. EEG, fMRT)
- Neuronal and cognitive changes in healthy ageing: neurodegeneration, neuromodulation, plasticity, learning and memory
- Neuronal and cognitive changes in pathological ageing: MCI and dementia
- Application: prevention, cognitive trainings, lifelong learning

### Qualification-goals/Competencies:
- Students will know about the neuronal and cognitive changes in healthy and pathological ageing
- Students are capable of working on, discuss and present English written papers
- Scientific hypotheses and experimental designs can be generated
- Self studied knowledge can be represented in a short scientific paper

### Grading through:
- Written report

### Responsible for this module:
- Prof. Dr. rer. nat. Nico Bunzeck

### Teacher:
- Institute for Psychology I
- Prof. Dr. rer. nat. Nico Bunzeck

### Literature:
- Current studies: will be provided - (partly written in English)

### Language:
- offered only in German

### Notes:
The module examination is considered passing if it was graded as at least sufficient
## PY4860-KP04, PY4860 - Hands on EEG data (EEGdata)

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<tr>
<th>Duration:</th>
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<tr>
<td>1 Semester</td>
<td>every summer semester</td>
<td>4</td>
<td>10</td>
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### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, 2nd or 4th semester
- Master Auditory Technology (optional subject), psychology, 2nd semester
- Master psychology (optional subject), psychology, 2nd or 4th semester

### Classes and lectures:
- Seminar Hands on EEG data (seminar, 2 SWS)

### Workload:
- 65 Hours private studies and exercises
- 30 Hours written report
- 25 Hours in-classroom work

### Contents of teaching:
- Deepening of theoretical and practical knowledge regarding EEG data analysis
- Introduction to the basics of EEG signal: neuronal activity, signal generation, evoked potentials, oscillation
- Preprocessing: filtering, sampling rate, ICA, re-referencing, ERPs, time-frequency analysis, source localization
- Statistical Parametric Mapping (SPM)
- EEGLab

### Qualification-goals/Competencies:
- Theoretical knowledge about EEG and data analysis
- Ability to analyze EEG data using SPM 8 and EEGLab in combination with Matlab
- Ability to create an SPM-based and ability to interpret the results of an EEG study and summarize in a scientific text

### Grading through:
- Written report
- continuous, successful participation in course
- B-Certificate (not graded)

### Responsible for this module:
- Prof. Dr. rer. nat. Nico Bunzeck

### Teacher:
- Institute for Psychology I
- Dr. rer. biol.hum. Tineke Steiger

### Literature:
- Present literature will be given in the course:

### Language:
- offered only in German
## Module Guide

### PY4510-KP06 - Evaluating, presenting and communicating (BPK)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>6</td>
</tr>
</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 2nd semester

### Classes and lectures:
- Lecture: Scientific Communication (lecture, 2 SWS)
- Assessing, Presenting, and Communicating Results (seminar / exercises, 2 SWS)

### Workload:
- 70 Hours private studies
- 60 Hours work on an individual topic (research and development) and written elaboration
- 45 Hours in-classroom work

### Contents of teaching:
- Critically assessing scientific results and reports
- Highlighting methodological Problems and current developments in psychology
- Getting to know how to detect and avoid academic misconduct and plagiarism
- Scientific writing
- Presenting scientific results in graphical, spoken, and written form
- Getting to know software packages for producing graphics
- Getting to know Reference managing software

### Qualification-goals/Competencies:
- Students deal critically with sience and scientific communication in an advanced section of their own study discipline.
- Students are able to structure valid arguments and critically discuss results
- Students can differentiate between scientific and expert communication on the one hand and amateur communication on the other hand.
- Students learn to differentiate contexts of scientific versus lay communication
- Students refine their skills in preparing and presenting oral talks and posters

### Grading through:
- Presentation of oral talk/poster
- written exam

### Responsible for this module:
- Prof. Dr. rer. nat. Jonas Obleser

### Teacher:
- Institute for Psychology I
- Prof. Dr. rer. nat. Jonas Obleser
- Dr. rer. nat. Malte Wöstmann

### Literature:

### Languages:
- offered only in German
- German and English skills required

### Notes:
In the lecture multiple context referring to communication are created, concerning science, econnomy and media, where students present, evaluate and communicate scientific results.
Prerequisite for admission to the written examination are the individually presented subjects.
### PY4600-KP08 - Diagnostics of psychic disorders (DiagPsych8)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each summer semester</td>
<td>8</td>
</tr>
</tbody>
</table>

**Course of study, specific field and term:**
- Master Psychology (compulsory), psychology, 2nd semester

**Classes and lectures:**
- course 1 (seminar with practical exercises, 2.5 SWS)
- course 2 (seminar with practical exercises, 2.5 SWS)

**Workload:**
- 110 Hours in-classroom work
- 100 Hours private studies and exercises
- 30 Hours exam preparation

**Contents of teaching:**
- WORKSHOPS WITH PATIENTS ON THE FOLLOWING TOPICS:
  - Diagnostic Interviews: SKID I, SKID II
  - Expert ratings: GAF, SOFAS, GARF, Hamilton Depression Scale, Hamilton Anxiety Scale, SANS, SAPS, QIDS
  - Self-ratings: Symptom load, quality of life
  - Intelligence testing
  - Diagnostic methods for specific mental disorders: depression, anxiety, substance use, eating disorders, somatic symptom disorders, pain, sexual dysfunctions, sleep disorders, personality disorders
  - Operationalized Psychodynamic Diagnostics (OPD)
  - Iterative hypothesis testing and diagnostic reasoning
  - Medical assessment, laboratory testing and neuroimaging in the diagnosis of mental disorders

**Qualification-goals/Competencies:**
- Factual knowledge: terminology of diagnostics
- Procedural knowledge: practical application of diagnostic interviews and expert ratings in patients with mental disorders
- Strategic knowledge: Differential indication and validity of the available diagnostic interviews, expert and self-ratings

**Grading through:**
- written exam

**Responsible for this module:**
- Prof. Dr. Ulrich Schweiger

**Teacher:**
- Clinic for psychosomatics and psychotherapy
- Clinic of Psychiatry and Psychotherapy
- Prof. Dr. Ulrich Schweiger
- Prof. Dr. phil. Dipl.-Psych. Michael Hüppe
- Priv.-Doz. Dr. phil. Dipl.-Psych. Hans-Jürgen Rumpf
- Prof. Dr. med. Klaus Junghanns
- Dr. med. Bartosz Zurowski

**Literature:**
- Rush: Handbook of Psychiatric Measures - American Psychiatric
- Döpfner: Diagnostik psychischer Störungen im Kindes- und Jugendalter - Hogrefe

**Language:**
- offered only in German

**Notes:**
The module examination is considered passing if it was graded as at least sufficient
### PY4700-KP08 - Clinical Neuropsychology (KlinNeuro8)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each summer semester</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 2nd semester

#### Classes and lectures:
- lecture in Neuropsychology (lecture, 2 SWS)
- course in Neuropsychology 1 (seminar with practical exercises, 2 SWS)
- course in Neuropsychology 2 (seminar, 2 SWS)

#### Workload:
- 150 Hours private studies
- 90 Hours in-classroom work

#### Contents of teaching:
-...

#### Qualification-goals/Competencies:
-...

#### Grading through:
- Written report
- Written exam

#### Responsible for this module:
- Prof. Dr. med. Thomas Münte

#### Teacher:
- Department of Neurology
- Prof. Dr. med. Thomas Münte
- Dr. rer. nat. Dipl.-Psych. Marcus Heldmann
- Dr. rer. hum. biol., Dipl.-Psych. Anja Fellbrich

#### Literature:
- :

#### Language:
- offered only in German
# CS4660-KP04, CS4660 - Process Control Systems (ProzFueSys)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>1 Semester</th>
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</thead>
<tbody>
<tr>
<td>Turnus of offer:</td>
<td>each winter semester</td>
</tr>
<tr>
<td>Credit points:</td>
<td>4</td>
</tr>
</tbody>
</table>

## Course of study, specific field and term:
- Master Psychology (optional subject), interdisciplinary competence, 3rd semester
- Master Robotics and Autonomous Systems (optional subject), computer science, 1st or 2nd semester
- Master psychology (optional subject), interdisciplinary competence, 3rd semester
- Master Media Informatics (compulsory), computer science, 3rd semester
- Master Computer Science before 2014 (optional subject), specialization field robotics and automation, 2nd or 3rd semester
- Master Computer Science before 2014 (compulsory), specialization field media informatics, 2nd semester

## Classes and lectures:
- Process Control Systems (lecture with exercises, 3 SWS)

## Workload:
- 55 Hours private studies
- 45 Hours in-classroom work
- 20 Hours exam preparation

## Contents of teaching:
- Introduction and Overview
- Incidents and Accidents
- Error, Failure and Responsibility
- Human Factors
- Mental, conceptual and technical Models
- Task Analysis and Task Modelling
- Event Analysis and Event Modelling
- Task Allocation
- Situation Awareness
- Diagnoses und Contingency
- Interaction in real-time: Conception and Design
- Risk and Safety
- Operations and Safety

## Qualification-goals/Competencies:
- The students know the most important theories, methods and systems for monitoring and controlling processes.
- They know the definitions of the terms risk and security and why they are applied in different ways.
- They can assess what needs to be considered in the development of mission- and safety-critical human-machine systems and how to proceed methodically.

## Grading through:
- exercises and project assignments
- Written or oral exam as announced by the examiner

## Responsible for this module:
- Prof. Dr. rer. nat. Michael Herczeg

## Teacher:
- Institute for Multimedia and Interactive Systems
  - Prof. Dr. rer. nat. Michael Herczeg
  - Prof. Dr.-Ing. Nicole Jochems
  - Prof. Dr. rer. nat. Tilo Mentler

## Literature:
- M. Herczeg: Software-Ergonomie: Theorien, Modelle und Kriterien für gebrauchstaugliche interaktive Computersysteme - 4. erweiterte und aktualisierte Auflage. De Gruyter Studium, 2018
- M. Herczeg: Interaktionsdesign - München: Oldenbourg-Verlag, 2006
<table>
<thead>
<tr>
<th>Module Guide</th>
</tr>
</thead>
</table>

**Language:**
- offered only in German
### PY4200-KP08 - Nosology of Neurological Disorders (NosNeuro)

<table>
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<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 3rd semester

#### Classes and lectures:
- Neurologic disorders (lecture, 2 SWS)
- Neurologic disorders (seminar, 2 SWS)
- Clinical visits in neurologic disorders (exercise, 1 SWS)

#### Workload:
- 100 Hours in-classroom work
- 95 Hours private studies
- 45 Hours exam preparation

#### Contents of teaching:

#### Qualification-goals/Competencies:

#### Grading through:
- written exam

#### Responsible for this module:
- Prof. Dr. med. Thomas Münte

#### Teacher:
- Department of Neurology
- Dr. rer. nat. Dipl.-Psych. Marcus Heldmann

#### Literature:
- :
- :

#### Language:
- offered only in German
### PY5100-KP08, PY5100 - Therapy of Mental Disorders (TheraPsych)

<table>
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<th>Duration:</th>
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<tbody>
<tr>
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<table>
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<tr>
<th>Turnus of offer:</th>
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<tbody>
<tr>
<td>each winter semester</td>
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</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 3rd semester
- Master psychology (compulsory), psychology, 3rd semester

### Classes and lectures:
- course 1 Therapy of Mental Disorders (seminar with practical exercises, 2 SWS)
- course 2 Therapy of Mental Disorders (seminar with practical exercises, 2 SWS)
- course 3 Therapy of Mental Disorders (seminar with practical exercises, 1 SWS)

### Workload:
- 110 Hours private studies and exercises
- 90 Hours in-classroom work
- 40 Hours exam preparation

### Contents of teaching:
- WORKSHOPS WITH THE FOLLOWING TOPICS:
- Overview of all techniques listed in in Common Language for Psychotherapy
- Assertiveness training
- Cognitive-behavioral therapies for depression, anxiety, eating disorder, somatic symptom disorder, pain, substance use disorders, sleep disorders
- Dialectical behavioral therapy DBT
- Cognitive behavioral analysis system of psychotherapy CBASP
- Metacognitive therapy
- Emotion Focused Psychotherapy
- Mentalization Based Therapy
- Schema Therapy
- Mindfulness Based Cognitive Therapy MBCT
- Acceptance and Commitment Therapy ACT

### Qualification-goals/Competencies:
- Factual knowledge: knowledge about a current canon of manualized psychotherapy methods
- Procedural knowledge: knowledge about the specific techniques and algorithms underlying the listed methods
- Ability to critically reflect about the evidence base of the listed methods
- Metacognitive knowledge: Strategic considerations about the differential use of the listed methods

### Grading through:
- written exam

### Responsible for this module:
- Prof. Dr. Ulrich Schweiger

### Teacher:
- Clinic for psychosomatics and psychotherapy
- Clinic of Psychiatry and Psychotherapy
- Prof. Dr. Ulrich Schweiger
- Dr. phil. Dipl.-Psych. Valerija Sipos
- Prof. Dr. phil. Dipl.-Psych. Michael Hüppe
- Dr. rer. nat. Dipl.-Psych. Julia Czaja
- Dr. rer. nat. Dipl.-Psych. Kristin Heinecke
- Priv.-Doz. Dr. phil. Dipl.-Psych. Hans-Jürgen Rumpf
- Dr. phil. Dipl.-Psych. Gallus Bischof
- Dipl.-Psych. Ulrike Gertzen

### Literature:
- : CBT Manuale aus der blauen Reihe - Hogrefe
### Language:
- offered only in German

### Notes:
The module examination is considered passing if it was graded as at least sufficient.
## PY5300-KP10 - Clinical internship (BePra_ab16)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each semester</td>
<td>10</td>
</tr>
</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 3rd semester

### Classes and lectures:
- experiencing a working environment (external block practical course, 20 SWS)

### Workload:
- 300 Hours in-classroom work

### Contents of teaching:
- To gather a real-life experience in the working environment in the field of Neuropsychology, clinical psychology and psychotherapy or similar. The internship usually takes place in a clinic or in similar institutes. It is desired to deepen the acquired knowledge from the master’s programme. Furthermore, new relevant skills should be added.

### Qualification-goals/Competencies:
- the ability to structurize and apply the learned theories and concepts
- the possibility to gather the first working experiences
- to expand the communication skills in professional environment
- to analyse and evaluate the concepts to possibly develop a topic for the master's thesis

### Grading through:
- Written report
- continuous, successful participation in practical course

### Responsible for this module:
- Prof. Dr. phil. So Young Park

### Teacher:
- External research institutions and companies
- Institute for Psychology I
- Clinic for psychosomatics and psychotherapy
- Clinic of Psychiatry and Psychotherapy
- Department of Neurology
- Universitätsklinikum S-H

### Language:
- thesis can be written in German or English

### Notes:
The Creditpoints (non graded) will be posted when the report of the internship is submitted. The internship is not bound to a semester.
## PY5500-KP30, PY5500 - Master Thesis Psychology (MasterArb)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each semester</td>
<td>30</td>
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</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (compulsory), psychology, 4th semester
- Master psychology (compulsory), psychology, 4th semester

### Classes and lectures:
- Oberseminar (1 SWS)
- Master Thesis (supervised self studies, 1 SWS)

### Workload:
- 900 Hours work on an individual topic (research and development) and written elaboration

### Contents of teaching:
- The ability to deal with a selected topic in psychology. The format can be experimental work or a review.
- The state of the work will be presented in the colloquium

### Qualification-goals/Competencies:
- The ability to write a scientific work on the selected topic in psychology.
- The ability to apply psychological methods and to present the scientific work in written form.
- The ability to plan, perform and analyze psychological investigation.
- The ability to present a scientific work in verbal and written form within given time.

### Grading through:
- Written report
- Colloquium

### Responsible for this module:
- Prof. Dr. rer. nat. Nico Bunzeck
- Prof. Dr. phil. So Young Park

### Teacher:
- Institute for Psychology I
- Clinic for psychosomatics and psychotherapy
- Clinic of Psychiatry and Psychotherapy
- Department of Neurology
- Alle prüfungsberechtigten Dozentinnen/Dozenten des Studienganges

### Languages:
- German and English skills required
- Thesis can be written in German or English
## EC4001-KP04, EC4001 - General Business Administration, esp. Personnel Management (ABWL)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>4</td>
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</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (optional subject), interdisciplinary competence, arbitrary semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, arbitrary semester
- Master psychology (optional subject), interdisciplinary competence, arbitrary semester
- Master Media Informatics (optional subject), interdisciplinary competence, arbitrary semester
- Master Computer Science since 2014 (optional subject), interdisciplinary competence, arbitrary semester

### Classes and lectures:
- General Business Administration (lecture, 2 SWS)
- General Business Administration (exercise, 1 SWS)

### Workload:
- 60 Hours private studies
- 45 Hours in-classroom work
- 15 Hours exam preparation

### Contents of teaching:
- Theories in business administration
- Organisational forms
- Legal forms
- Accounting basics
- Theories on leadership and motivation

### Qualification-goals/Competencies:
The students get an important and in-depth overview of the single parts of business administration. Within this lecture, the students are empowered to identify and classify the different theoretical areas of business administration. Furthermore, students will be able to evaluate the different approaches and apply them to specific situations.

### Grading through:
- written exam

### Responsible for this module:
- Prof. Dr. Christian Scheiner

### Teacher:
- Institute for Entrepreneurship and Business Development
- Stefan Becker, M.Sc.

### Literature:

### Language:
- offered only in German
# EC4004-KP04, EC4004 - Strategic Management (StratMng)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>4</td>
</tr>
</tbody>
</table>

## Course of study, specific field and term:
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, arbitrary semester
- Master Psychology (optional subject), interdisciplinary competence, arbitrary semester
- Master psychology (optional subject), interdisciplinary competence, arbitrary semester

## Classes and lectures:
- Strategic Management (lecture, 2 SWS)
- Strategic Management (exercise, 1 SWS)

## Workload:
- 60 Hours private studies
- 45 Hours in-classroom work
- 15 Hours exam preparation

## Contents of teaching:
- Corporate goals and strategies
- Marketing Strategies
- Enterprise Controlling
- Internationalization strategies

## Qualification-goals/Competencies:
- Within the single teaching areas the students will be able to use the teaching content and to analyze and evaluate business cases independently. They are empowered to use and apply the different strategic management tools and approaches. Moreover, the team work within the lecture and exercise enables the students to formulate and define common goals and solution strategies with regard to the tasks given.

## Grading through:
- presentation
- written exam

## Responsible for this module:
- Prof. Dr. Christian Scheiner

## Teacher:
- Institute for Entrepreneurship and Business Development

## Literature:
- Schäfer-Kunz Vahs: Einführung in die Betriebswirtschaftslehre - Schäffer-Poeschel-Verlag, 5. Auflage, 2007

## Language:
- offered only in German
# EC4020-KP04, EC4020 - Agile Project Management (Prjktmng)

**Duration:** 1 Semester  
**Turnus of offer:** each winter semester  
**Credit points:** 4

## Course of study, specific field and term:
- Master Psychology (optional subject), interdisciplinary competence, arbitrary semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, arbitrary semester
- Master psychology (optional subject), interdisciplinary competence, arbitrary semester
- Master CLS (optional subject), interdisciplinary competence, 3rd semester
- Master Entrepreneurship in Digital Technologies (optional subject), interdisciplinary competence, arbitrary semester

## Classes and lectures:
- **Project Management (lecture with exercises, 3 SWS)***

## Workload:
- 60 Hours private studies
- 45 Hours in-classroom work
- 15 Hours exam preparation

## Contents of teaching:
- Within this module students will get insights to the foundations and disciplines of project management. Focus will be especially on agile project management. Through a mix of from theory and practice students will experience the different methods and their interdependencies.
- The popular methods Scrum and Kanban are trained so that the students are enabled to understand roles;, processes and agile principles.
- Also goals is to sensitive students towards change management through projects, which is typically a challenging aspect. The variance and the uniqueness of each project is another aspect that will be covered within this module.
- Finally the students should be able to select a fitting method based on the requirements and plan first steps to structure the project.
- The context and focus will be on software development projects.

## Qualification-goals/Competencies:
- The students identify the major roles and processes in small and simple projects and get a broader knowledge about agile project management and to plan and execute projects.
- The students are able to plan and execute different process steps in a project. Especially the importance and impact of soft skills are part of the practical exercises.
- The students can define personal development area in the context of project work based on their experience and reflections during the module.
- The students are able to work in a team, take over responsibility and trained to critical reflect their own behavior in a team and finally improve.

## Grading through:
- portfolio exam
- written exam
- written homework
- presentation

## Responsible for this module:
- Prof. Dr. Christian Scheiner

## Teacher:
- Institute for Entrepreneurship and Business Development
  - Dr. Sascha Schorr

## Literature:

## Language:
- offered only in German
Notes:
  (Formerly EC4020)
  Formerly Projektmanagement
<table>
<thead>
<tr>
<th>Duration: 1 Semester</th>
<th>Turnus of offer: every second semester</th>
<th>Credit points: 4</th>
</tr>
</thead>
</table>

**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester
- Bachelor Psychology before 2016 (optional subject), psychology
- Bachelor Psychology since 2016 (optional subject), psychology

**Classes and lectures:**
- Nutrition psychology (seminar, 2 SWS)

**Workload:**
- 90 Hours private studies and exercises
- 30 Hours in-classroom work

**Contents of teaching:**
- Theoretical principles of eating behavior
- Theoretical principles of pathological eating behavior
- Experimental research on the subject of food choice
- Decision-making theories and their link to eating behavior

**Qualification-goals/Competencies:**
- The students acquire a good theoretical and experimental knowledge regarding the foundations of eating behavior
- The students extend their knowledge regarding pathological eating behavior, as in bulimia, obesity and type 2 diabetes
- Training of the ability to discuss the subject in its scientific and socio-critical context
- Students will gain access to results of latest experimental research concerning eating behavior

**Grading through:**
- presentation
- Group work

**Responsible for this module:**
- Prof. Dr. phil. So Young Park

**Teacher:**
- Institute for Psychology I
- Prof. Dr. phil. So Young Park

**Literature:**
- Diverse: up to date scientific papers

**Language:**
- offered only in German

**Notes:**
The module examination is considered passing if it was graded as at least sufficient.
### PY2922-KP04 - Progressive muscle relaxation: train-the-trainer (PMR)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
<th>Max. group size:</th>
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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each summer semester</td>
<td>4</td>
<td>11</td>
</tr>
</tbody>
</table>

#### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, arbitrary semester
- Bachelor Psychology since 2016 (optional subject), psychology, arbitrary semester

#### Classes and lectures:
- skills training (3 SWS)

#### Workload:
- 90 Hours private studies
- 30 Hours in-classroom exercises

#### Contents of teaching:
- A prerequisite for reducing stress in stressful situations is the ability to relax, which can be anchored in the body through regular training. One possibility is progressive muscle relaxation (PMR) according to Edmund Jacobson. This is a procedure in which a state of deep relaxation of the entire body is achieved through the deliberate and conscious relaxation of certain muscle groups. The aim of the procedure is to reduce muscle tension below the normal level due to improved body perception. In addition, relaxation of the musculature should also reduce other signs of physical restlessness or arousal, such as palpitations, sweating or tremors. In addition, muscular tensions can be detected and loosened, thus reducing pain.

#### Qualification-goals/Competencies:
- Students learn the independent application of progressive muscle relaxation.
- The students qualify themselves to guide the PMR exercise towards third parties.

#### Grading through:
- continuous participation (>80%)
- contributions to the discussion
- B-Certificate (not graded)
- active participation in the exercises

#### Responsible for this module:
- Dipl.-Psych. Juliana Wiechert

#### Teacher:
- Dipl.-Psych. Juliana Wiechert

#### Literature:
- :

#### Language:
- offered only in German
PY4210-KP04, PY4210 - Engineering Psychology (IngPsy)

Duration: 1 Semester
Turnus of offer: each winter semester
Credit points: 4

Course of study, specific field and term:
- Master Robotics and Autonomous Systems (optional subject), interdisciplinary competence, 1st or 2nd semester
- Master MES since 2014 (optional subject), no specific field, 1st or 2nd semester
- Bachelor MES since 2014 (optional subject), no specific field, arbitrary semester
- Master Media Informatics (compulsory), psychology, 1st semester
- Bachelor Psychology since 2016 (optional subject), psychology, arbitrary semester
- Master Psychology (optional subject), psychology, arbitrary semester

Classes and lectures:
- Engineering Psychology (lecture, 2 SWS)
- Engineering Psychology (seminar, 1 SWS)

Workload:
- 75 Hours in-classroom work
- 45 Hours private studies and exercises

Contents of teaching:
- Overview over the lecture: Special features, psychological basics
- Introduction and overview: definition, brief introduction to philosophy of technics, technology use in everyday life, brief history of engineering psychology
- Man-machine-systems: definition, application, design and evaluation of MMS, age-differentiated design
- Usability: User Experience, Accessibility, Inclusive Design
- Assistance and automation: strategies, consequences, taxonomies
- Human information processing in interaction with technical systems: structure and process, Mental Models and cognitive modelling, strengths and weaknesses, limits, task dependency, complex problem solving, typical errors, heuristics
- Summary

Qualification-goals/Competencies:
- Students understand psychological fundamentals for the design and evaluation of man-machine-systems (MMS).
- Students can integrate their own work on MMS in a historical and sociological perspective.
- They can plan, coordinate and conduct usability studies and work effectively in interdisciplinary teams with engineering psychologists, ergonomics and usability specialists and designers.

Grading through:
- Written or oral exam as announced by the examiner

Responsible for this module:
- Prof. Dr. rer. nat. Thomas Franke

Teacher:
- Institute for Multimedia and Interactive Systems
- Prof. Dr. rer. nat. Thomas Franke

Literature:
- W. Hacker: Allgemeine Arbeitspsychologie - Hogrefe Verlag, 2014

Language:
- offered only in German
## PY4720-KP04 - Trends in Personality Psychology (WPPersoe)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each summer semester</td>
<td>4</td>
</tr>
</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, arbitrary semester

### Classes and lectures:
- Trends in Personality Psychology (seminar with practical exercises, 2 SWS)

### Workload:
- 90 Hours private studies and exercises
- 30 Hours in-classroom work

### Contents of teaching:
- Aktuelle, interessante und/oder wichtige Konzepte, Theorien, Methoden und Forschungsbereiche in der Differentiellen und Persönlichkeitspsychologie (breit gefasst)
- Diskussionen über Theorien, Modelle, Methoden, Ergebnisse und Anwendungen
- Verschiedene Inhalte möglich (je nach Interessensbereiche)

### Qualification-goals/Competencies:
- Die Studierenden kennen aktuelle, interessante und/oder wichtige Fachliteratur in der Differentiellen und Persönlichkeitspsychologie
- Sie vertiefen ausgewählte Forschungsgebiete und verstehen Gemeinsamkeiten und Unterschiede zwischen ihnen
- Sie können verschiedene Informationen miteinander kontrastieren und verknüpfen
- Sie erwerben Wissen, dass an andere Grundlagen- und Anwendungsdisziplinen anknüpfen kann
- Sie sind in der Lage, aktuelle Fachartikel und Buchkapitel auf Englisch zu lesen, zu verarbeiten und kritisch abwägend zu diskutieren und zu bewerten
- Sie können komplexe Sachverhalte sicher und gut aufbereitet präsentieren

### Grading through:
- Written report
- presentation
- presentation

### Responsible for this module:
- Prof. Dr. rer. nat. habil John Rauthmann

### Teacher:
- Institute for Psychology I
- Prof. Dr. rer. nat. habil John Rauthmann

### Literature:
- Div: Verschiedene Fachartikel auf Englisch (wechselnd)

### Language:
- German and English skills required
## PY4800-KP04, PY4800 - Knowledge creates visibility: Presenting scientifically professional (WissPraes)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
<th>Credit points:</th>
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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>4</td>
</tr>
</tbody>
</table>

### Course of study, specific field and term:
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester

### Classes and lectures:
- Wissen schafft Präsenz (seminar, 2 SWS)

### Workload:
- 90 Hours private studies
- 30 Hours in-classroom work

### Contents of teaching:
- Basic theories of recent and classical communication models
- Critical reflection of these models, as well as practical applications in form of discussions and presentations
- Confident manner during scientific discussions and presentations

### Qualification-goals/Competencies:
- Students acquire an in-depth knowledge about different communication theories and can apply this knowledge in discussions and presentations
- Based on intense evaluations students can improve their practical skills
- Students are able to structure scientific information and to communicate these

### Grading through:
- Marked presentation with written report

### Responsible for this module:
- Prof. Dr. phil. So Young Park

### Teacher:
- Institute for Psychology I
- Ph.d. Apoorva Madipakkam

### Literature:
- Barbara Hey: Präsentieren in Wissenschaft und Forschung - Springer 2011
- Diverse: Actual scientific papers

### Language:
- offered only in German

### Notes:
The module examination is considered passing if it was graded as at least sufficient.
<table>
<thead>
<tr>
<th>Duration:</th>
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<td>4</td>
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</table>

**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester

**Classes and lectures:**
- Decision Neuroscience (seminar, 2 SWS)

**Workload:**
- 40 Hours private studies
- 30 Hours written report
- 30 Hours in-classroom work
- 20 Hours designing a poster

**Contents of teaching:**
- Recent theories on different aspects of decision making - Simple choices - Decisions under risk - Decisions in a social context
- Extension of neuroscientific methods (TMS, fMRI, EEG, MEG)
- Recent neuroscientific findings about decision making

**Qualification-goals/Competencies:**
- Students will acquire an in depth knowledge about theories and models of different aspects of decision making
- Students have the opportunity to get an interdisciplinary view of the recent state of knowledge of decision making
- Student will be able to deal with the different terms of each discipline
- Students will be able to think critically about recent neuroscientific results and to link those with the different underlying theoretical models

**Grading through:**
- written homework
- B-Certificate (not graded)

**Responsible for this module:**
- Prof. Dr. phil. So Young Park

**Teacher:**
- Institute for Psychology I
- Prof. Dr. phil. So Young Park
- M.Sc. Gabriele Bellucci

**Literature:**
- Aktuelle wissenschaftliche Artikel:

**Language:**
- offered only in German

**Notes:**
The module examination is considered passing if it was graded as at least sufficient.
### PY4880-KP04 - Data analysis and scientific programming using Matlab (FoDaMatlab)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>1 Semester</th>
<th>Turnus of offer:</th>
<th>each winter semester</th>
<th>Credit points:</th>
<th>4</th>
</tr>
</thead>
</table>

**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, arbitrary semester

**Classes and lectures:**
- Data analysis and scientific programming using Matlab (seminar, 2 SWS)

**Workload:**
- 68 Hours private studies
- 32 Hours in-classroom work

**Contents of teaching:**
- Students acquire basic knowledge of and in Matlab and comparable data analysis environments
- Students get accustomed to handling scientific data and develop own strategies of data analysis

**Qualification-goals/Competencies:**
- Learning to interact with a computer algebra system like Matlab
- Methods and approaches in using Matlab for various kinds of data analysis in research

**Grading through:**
- programming exercises

**Responsible for this module:**
- Prof. Dr. rer. nat. Jonas Obleser

**Teacher:**
- Institute for Psychology I
- Dr. rer. nat. Jens Kreitewolf
- Dr. rer. nat. Mohsen Alavash

**Literature:**

**Languages:**
- Will be offered using an audience-oriented mixture of German and English
- German and English skills required

**Notes:**
- The module examination is considered passing if it was graded as at least sufficient.
**PY4891-KP04, PY4891 - Traffic psychology (Verkehrsps)**

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<thead>
<tr>
<th>Duration:</th>
<th>Turnus of offer:</th>
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<tbody>
<tr>
<td>1 Semester</td>
<td>each winter semester</td>
<td>4</td>
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</tbody>
</table>

**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester

**Classes and lectures:**
- Traffic psychology (seminar with practical exercises, 2 SWS)

**Workload:**
- 80 Hours private studies
- 28 Hours in-classroom work
- 2 Hours excursion

**Contents of teaching:**
- Choice of vehicle for moving (bike, car, bus, ship, □)
- Mobility: the choice of vehicle for moving (bike, car, bus, ship, □) (work psychology)
- Age and traffic: challenges on traffic systems for all parts in life (life span psychology)
- Deviating behavior (clinical psychology and differential psychology): a) Aggression, b) Risk cognition and sensation seeking
- Health, diseases and traffic (clinical psychology and neuropsychology): a) Alcohol and drugs, b) Psychiatric diseases (e.g. psychosis), c) Neuro-degenerative diseases (e.g. Morbus Parkinson)
- Diagnostics of suitability for participation in traffic (Neuropsychology)
- Tätigkeiten im Berufsfeld Verkehr, z.B. im Schiffsverkehr (Betriebspsychologie, Marinepsychologie)
- Traffic pedagogics (not only for children!)
- Human-machine interaction (work and environmental psychology)
- There will be an excursion (medical-psychological assessment center) as well as reports by external experts in most of the sessions.

**Qualification-goals/Competencies:**
- Knowledge about psychological components in diverse areas of mobility
- Application of psychological theories on the interdisciplinary context of traffic
- Critical discussion of topics between empirical research, basic theories and practical application of traffic psychology topics

**Grading through:**
- Presentation or seminar paper
- B-Certificate (not graded)

**Responsible for this module:**
- Dr. rer. hum. biol. Andreas Sprenger

**Teacher:**
- Institute for Psychology II
- Dr. rer. hum. biol. Andreas Sprenger

**Literature:**
- Chaloupka-Risser et al.: Verkehrspsychologie

**Language:**
- offered only in German

**Notes:**
Prüfungsleistungen gelten als erbracht, wenn sie mit mindestens ausreichend bewertet werden. Im Rahmen des Seminars wird eine Exkursion zu einer medizinisch-psychologischen Untersuchungsstelle durchgeführt. Das Modul ist auf 20 TeilnehmerInnen beschränkt.
# PY4892-KP04 - Post Trauma: Social psychology and ethics (PostTrauma)

<table>
<thead>
<tr>
<th><strong>Duration:</strong></th>
<th>1 Semester</th>
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<tbody>
<tr>
<td><strong>Turnus of offer:</strong></td>
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<tr>
<td><strong>Credit points:</strong></td>
<td>4</td>
</tr>
</tbody>
</table>

## Course of study, specific field and term:
- Master psychology (optional subject), psychology, arbitrary semester
- Master Psychology (optional subject), psychology, arbitrary semester

## Classes and lectures:
- Post Trauma: Social psychology and ethics (seminar, 2 SWS)

## Workload:
- 90 Hours privat studies (including essay)
- 30 Hours in-classroom work

## Contents of teaching:
- This seminar looks at how families and societies deal with the past when something has happened in their past that is traumatic and therefore cannot be described or discussed, or poses obstacles for an open conversation. Descendants of victims and perpetrators of the Holocaust; situations of war, violence. How is agency hampered by trauma? How can people regain agency after a trauma? Which influence have collective traumas on ethical discourses?
- We closely look at the extensive qualitative interview study, which was led by the Israeli psychologist Dan Bar-On (1938 - 2008) on the perspectives of perpetrators and victims in three generations after the Holocaust in Germany and Israel. We elaborate and discuss ethical and social psychological interpretations of the results of this study. For this we include relevant texts about the definition of individual and collective trauma and about the phenomenological, cultural and ethical perspectives.

## Qualification-goals/Competencies:
- Participants learn to know and use

## Grading through:
- further tasks as defined by the lecturer at first lesson
- written homework
- active participation in the exercises

## Responsible for this module:
- Prof. Dr. phil. Christoph Rehmann-Sutter

## Teacher:
- Institute for the History of Medicine and Science Studies
- Prof. Dr. phil. Christoph Rehmann-Sutter

## Literature:

## Language:
- German and English skills required
# Module Guide

**PY4893-KP04 - Psychoanalysis - science or pseudoscience (PsyAn)**

<table>
<thead>
<tr>
<th>Duration: 1 Semester</th>
<th>Turnus of offer: each summer semester</th>
<th>Credit points: 4</th>
<th>Max. group size: 20</th>
</tr>
</thead>
</table>

## Course of study, specific field and term:
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester

## Classes and lectures:
- Psychoanalysis - science or pseudoscience (seminar, 2 SWS)

## Workload:
- 75 Hours private studies
- 25 Hours in-classroom work

## Contents of teaching:
- Is psychoanalysis a science, pseudo-science or just a system of interpretation? How can psychoanalysis count as a science? The seminar will deal with "Freud debates" in the second half of the 20th century. Starting with original text passages from Freud’s written work, we will discuss questions of scientific claims in psychoanalytical thinking as well as the specific character and limitations of psychoanalytical knowledge (Habermas, Ricoeur, Grünbaum). The seminar will offer a co-teaching format with Prof. Dr. Alfred Nordmann (Philosophy, TU Darmstadt) and students of philosophy of the University of Darmstadt.
- In this constellation of philosophy, "Kulturwissenschaften" (cultural sciences) and psychology we will discuss the scientific-theoretical and philosophical implications of psychoanalysis in an interdisciplinary dialogue. We also will focus on the debates about efficacy, efficiency and empirical verifiability in a clinical context.

## Qualification-goals/Competencies:
- Faculty of criticism; theory understanding
- Reflection and discursive delivery on important texts and arguments; epistemology and theoretical foundation of psychology and psychoanalysis
- Critical understanding of texts; reflection of public practice in psychological sciences

## Grading through:
- Presentation
- Essay (graded)

## Responsible for this module:
- Dr. phil. Birgit Stammberger

## Teacher:
- Institute for the History of Medicine and Science Studies

## Language:
- Offered only in German
<table>
<thead>
<tr>
<th>Duration:</th>
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<th>Credit points:</th>
<th>Max. group size:</th>
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</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>every summer semester</td>
<td>4</td>
<td>15</td>
</tr>
</tbody>
</table>

**Course of study, specific field and term:**
- Master Psychology (optional subject), psychology, arbitrary semester

**Classes and lectures:**
- Workshop qualitative research (seminar, 2 SWS)

**Workload:**
- 90 Hours private studies
- 30 Hours in-classroom work

**Contents of teaching:**
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**Qualification-goals/Competencies:**
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**Grading through:**
- presentation
- B-Certificate (not graded)

**Responsible for this module:**
- Prof. Dr. phil. Lisa Malich

**Teacher:**
- Institute for the History of Medicine and Science Studies

**Literature:**
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**Language:**
- offered only in German
# PY5360-KP04, PY5360 - Psychology in movies (PsyFilmMA)

<table>
<thead>
<tr>
<th>Duration:</th>
<th>Credit points:</th>
<th>Max. group size:</th>
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<tbody>
<tr>
<td>1 Semester</td>
<td>4</td>
<td>20</td>
</tr>
</tbody>
</table>

## Course of study, specific field and term:
- Master Psychology (optional subject), psychology, arbitrary semester
- Master psychology (optional subject), psychology, arbitrary semester

## Classes and lectures:
- Psychologie in movies (seminar, 2 SWS)

## Workload:
- 80 Hours private studies
- 30 Hours in-classroom work

## Contents of teaching:

## Qualification-goals/Competencies:

## Grading through:
- Written report
- Presentation
- B-Certificate (not graded)

## Responsible for this module:
- Prof. Dr. Sören Krach

## Teacher:
- Department of Neurology
- Clinic of Psychiatry and Psychotherapy
- Institute for Psychology I
- Prof. Dr. Sören Krach
- Prof. Dr. rer. nat. Ulrike Krämer
- Maurice Cabanic

## Literature:

## Language:
- offered only in German
<table>
<thead>
<tr>
<th><strong>Course of study, specific field and term:</strong></th>
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</thead>
<tbody>
<tr>
<td>● Master psychology (optional subject), psychology, arbitrary semester</td>
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<tr>
<td>● Master Psychology (optional subject), psychology, arbitrary semester</td>
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<table>
<thead>
<tr>
<th><strong>Classes and lectures:</strong></th>
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<tbody>
<tr>
<td>● Neuromarketing (seminar, 2 SWS)</td>
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<table>
<thead>
<tr>
<th><strong>Workload:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>● 100 Hours private studies and exercises</td>
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<tr>
<td>● 20 Hours in-classroom work</td>
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<table>
<thead>
<tr>
<th><strong>Contents of teaching:</strong></th>
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</thead>
<tbody>
<tr>
<td>● Principles of psychological mechanisms underlying diverse marketing strategies</td>
</tr>
<tr>
<td>● Introduction to the methods investigating marketing strategies</td>
</tr>
<tr>
<td>● Basic foundations of neuromarketing</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Qualification-goals/Competencies:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>● Learning the basic theories in psychology and neuroscience that are related to the marketing strategies</td>
</tr>
<tr>
<td>● Understanding the interdisciplinarity of the neuromarketing by reading and discussing the standard readings in neuromarketing</td>
</tr>
<tr>
<td>● The students acquire the ability to evaluate the marketing strategies in a critical way</td>
</tr>
<tr>
<td>● Building connections between the marketing strategies and theoretical/empirical models in psychology</td>
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<table>
<thead>
<tr>
<th><strong>Grading through:</strong></th>
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<tbody>
<tr>
<td>● Written report</td>
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<tr>
<td>● Group work</td>
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<table>
<thead>
<tr>
<th><strong>Responsible for this module:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>● Prof. Dr. phil. So Young Park</td>
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<th><strong>Teacher:</strong></th>
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<tbody>
<tr>
<td>● Institute for Psychology I</td>
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<tr>
<td>● Prof. Dr. phil. So Young Park</td>
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<table>
<thead>
<tr>
<th><strong>Literature:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>● Dr. Thomas Zoega Ramsoy: Introduction to Neuromarketing</td>
</tr>
<tr>
<td>● Latest scientific publications:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Language:</strong></th>
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</thead>
<tbody>
<tr>
<td>● offered only in German</td>
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<thead>
<tr>
<th><strong>Notes:</strong></th>
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<tr>
<td>The module examination is considered passing if it was graded as at least sufficient.</td>
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