2 The first year

2.1 GENERAL

The first year of the study programme (the propedeuse) has an orientational, selective and referential function. For that purpose it provides both a representative overview of psychology and its basic disciplines as well as a perspective on the specific character of Maastricht psychology programme.

The propedeuse begins with a five-week introductory module, consisting of an initial introduction to psychology, followed by six regular modules.

The themes of the first three modules are "Social Behaviour", "Development and Growth" and "Body and Behaviour". The third module will be completed before the Christmas break. The "Social Behaviour" module provides an introduction to social psychology and gives students the opportunity to practise working with the problem-based learning method. In the "Development and Growth" module, development will be studied from both a cognitive and a biological perspective. The "Body and Behaviour" module explains how biological mechanisms determine and influence behaviour.

In module 1.4, "Differences Between People", the factors underlying differences between people will be examined. In module 1.5, "Human Cognition", the viewpoint of cognitive psychology is central. Module 1.6, "Perception", provides an introduction to the psychology of perception. The propedeuse concludes with module 1.7, "History and Theory of Psychology", which places psychology in its historical context.

Parallel to each module, practical training courses are offered in which students learn various skills, generally correlated with the subject matter in the current module. The objectives and contents of the practical training will be described in section 2.2. More detailed information will be found in the module books. Each module is concluded with an assessment.

For each module, there are two tutorial group meetings per week, each lasting two hours. The number of practical training meetings is variable. The times at which practical training meetings and lectures are to be held during cach term will be found in the schedule.

The parallel programme during the first year focuses on research methods, statistics and computer skills. Instruction in writing skills will also be given throughout the year.

Core texts

A number of books are essential for students following the propedeuse. Unless students acquire their own copies of these books, it will be difficult for them to participate in the tutorial groups and get the most out of the course.

The core texts for the first year are as follows:

1. Gleitman, H. (1995). Psychology. (4th ed.). New York: W.W. Norton &

2. Bukatko, D. and Daehler, M. (1995). Child Development. A Thematic Approach. Houghton Mifflin, Boston.

4. Sternberg, R.J. (1996). Cognitive Psychology. Fort Worth: Harcourt Brace Publishing Company. Kalat, J.W. (1995). Biological Psychology. (5th ed.). New York: Brooks/Cole

5. Goldstein, E.B. (1996). Sensation and Perception. (4th ed.). Pacific Grove, CA. Bruce/Coic. College Publishers.

6. Boon, L. (1982). Geschiedenis van de psychologie. Meppel: Boom.

7. Goodwin, C. (1995). Research in Psychology, Methods and Design. New York Wiley.

8. Chalmers, A. (1981). Wat heet wetenschap. Meppel: Boom.

9. Boertjens, K.R. (1995). PC Combicursus Microsoft Office 95. (UK version). Schoonhoven: Academic service.

10. Brink, W.P. van den and Koele, P. (1985/1994). Statistiek deel 1, 2, 3 en 4 Mcppcl: Boom.

which is distributed to the students by the tutors. and chapters from books (in this prospectus referred to as 'collection of articles' Usually, the reading material for a module includes a set of photocopies of articles

such sources regularly. learning resources centre. To follow a course effectively, it is important to consult in addition, many modules will refer to additional publications available in the

2.2 OVERVIEW OF FIRST YEAR PROGRAMME

Micanie	Raming	Parallel programme
1.1 Social Behaviour	Observation	PC use
1.2 Development	Observation	Research Methods Ia
1.2 Development 1.3 Body and Behaviour	Observation Brain anatomy	E-mail/Internet Word / CD-ROM
		Statistics Ia
1.4 Differences between people	Questionnaires	Statistics Ia/ End-note
1.5 Human Cognition	Experiments	Statistics Ib
1.6 Perception	Ergonomics	Statistics Ib/ Essay
	Perception of odour	Ħ
1.7 History and Theory	Essay	Statistics Ib
		Reserach Methods Ib

2.2.1 Description of the modules

Module 1.1 Social Behaviour

Coordinator: Louis Boon, Psychology, tel.: 3881885, Dr Tanslaan 10, rm 4.002

This module has a dual objective. Students will be provided with an introduction to social psychology and will practice the skills necessary to function in the problem-based learning system.

psychology, the central theme of this module. Halfway through this first week, in the tutorial group meetings. Topics utilized in this training are taken from social a number of basic skills. This module starts with training the skills needed to work training meetings will be replaced by regular tutorial group meetings. acquire some knowledge of its background and central elements and be trained in function effectively within this non-traditional system, it is essential for students to Education in Maastricht is based on the method of problem-based learning. To

other people. This module will deal with both the biological roots of social behaviour as well as typically human aspects of social behaviour. To a great extent, human behaviour is geared to and determined by interaction with

The module deals with a number of classical themes from social psychology: conformism, attitudes and changes in attitudes, cognitive dissonance and the phenomena such as sexuality and cooperation. In the final part of the module, the focus will be on ethology, illustrated with which facial expressions, emotions and behaviour affect each other will be examined manner in which people deal with cognitive conflicts. Subsequently, the manner in

Essential reading

-Gleitman, H. (1995). Psychology. (4th ed.). New York: W.W. Norton & Company. Part 4 in particular.

Collection of articles.

Practical training

Coordinator: Wijnand Raaijmakers, Psychology, tel.: 3881880, Dr Tanslaan 10, rm

which is to observe and score. animal behaviour. The training makes use of video taped ethological material, Objective: To acquaint students with methods utilized for the observation of

Teaching method

14 tutorial group meetings, 5 lectures, 2 practical training meetings

Open questions.

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Module 1.2 Development and Growth

Coordinator: Anita Jansen, Psychology, tel.: 3881910, Dr Tanslaan 10, rm 3.017

conditioning, operant conditioning and social learning. A number of developmental disorders, such as autism and ADHD (Attention Deficit Hyperactivity Disorder) attention will be devoted to learning processes, such as habituation, classical will also be studied. thought, language, sexual identity and emotions develop over the years. Considerable psychologically. Following a short introduction covering prenatal development in During this module, students will learn how children and adolescents develop the central nervous system (CNS), students will examine the ways in which

Description

an attention disorder? Questions such as these will be considered in the course of place? When is a noisy, animated little boy normal and when do we say that he has we are girls or boys and begin to behave accordingly? How does this process take punishment? How do we learn to evaluate good and evil? When we do we know that this have on our later emotional development? What are the effects of reward and we learn to think and talk? How do we form attachments and what influence does language and sexual identity in children and adolescents will be studied. How do module begins with an examination of the prenatal growth of the CNS. Subsequently, development are closely related to the development of psychological structures, the structures from conception to adolescence. Since biological maturation and learning processes and the development of cognitive and emotional faculties, The subject of this module is the development and change of psychological

Essential reading

- Gleitman, H. (1995). Psychology. (4th ed.). New York: W.W. Norton & Company. Chapters 4, 13 and 14.
- Bukatko, D. and Daehler, M. (1995). Child Development: A Thematic Approach Houghton Mifflin, Boston.
- Collection of articles.

Practical training

skills, a report in the form of a scientific article is to be written on the basis of the with behavioural disorders (autism) will be observed. To develop scientific writing techniques. During the practical training, students will learn to observe and to determine the validity of their observations. Both healthy children and children Objectives: There are two practical training meetings. A session on conditioning will be given at the beginning of the module. The second session covers observational Coordinator: Peter Muris, Psychology, tel.: 3881980, Dr Tanslaan 10, rm 3.013,

Teaching method

12 tutorial group meetings, 6 lectures, 2 practical training meetings.

Assessment

Open questions

Module 1.3 Body and Behavious

Coordinator: Jelle Jolles, Psychology, tel.: 3881912, Dr Tanslaan 10, rm 3.002.

behaviour. Briefly summarized, its objectives are as follows: examples and insight related to the connection between somatic processes and with psychological processes and social influences. They determine behaviour and This course provides an introduction to important topics in biological psychology and gives students insight into the biological bases of psychological phenomena. perception, thought, consciousness and emotions. Module 1.3 aims at providing Sleep, wakefulness and dreams have a profound influence on human functioning The same is true of eating, drinking and sexuality. Biological processes are interrelated

behaviour and perception; - to help students acquire knowledge about somatic processes which play a role in

- to create insight into psychological processes which, to a significant extent, are (partly) determined by biological mechanisms;

perception along with psychological and social factors. - to teach students to recognize biological processes which influence behaviour and

practical training meetings and the contents of the lectures and problems. studies, practical training will have an important place. The introduction to the case There will be a close relationship between the subject matter presented in the drugs and behaviour; hormones and behaviour; sexuality. In addition to case Practical training will focus on deepening insight into brain-behaviour relations. histories will make use of a collection of newspaper clippings along with the module breathing and temperature regulation; cating and drinking; emotion and aggression; book. Seminars to present in-depth information on the cases will also be held. The following topics will be covered: the biological clock; sleep and dream;

Essential reading

- Publishing Company.
 Collection of articles. - Gleitman, II. (1995). Psychology. (4th ed.). New York: W. W. Norton & Company. - Kalat, J.W. (1995). Biological Psychology. (5th ed.). New York: Brooks/Cole
- Clipping collection.

Practical training

tel.: 3881027, Universiteitssingel 50, rm 1.106. Coordinators: Harry Steinbusch, Psychiatry and Neuropsychology, tel.: 3881021, Universiteitssingel 50, rm 1.101a and Wim Riedel, Psychiatry and Neuropsychology,

Objectives: To provide insight into the relationship between brain structure and brain function and knowledge about the anatomy of the brain,

The practical training is divided into two sections. The first section will provide

microscopic anatomy of the brain. The second section will deal with psychophysiology. By tracing the activity of the brain and the heart, students will learn more about the relationship between mental exertion and biological will enable students to acquire insight into the structure of brain cells and the practical experience in neuroanatomy. Microscopic examination of sheep brains mechanisms.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings

Open questions.

Module 1.4 Differences Between People

Coordinator: Henk Schmidt, Psychology, tel.: 3881904, Dr Tanslaan 10, rm 4.066.

differences originate. differences between people. The module will also attempt to explain how these The aim of this module is to familiarize students with psychologically interesting

psychology will be considered: example, values, preferences, physical features and sex), which each have their Although people differ with respect to a large number of characteristics (for these characteristics and their causal determinants, four central problems of psychological ramifications, this module concentrates primarily on differences in intelligence and personality. Based on increasing knowledge about the nature of

To what extent can human behaviour be predicted?

How stable or variable is human behaviour?

- What role do genetic and other biological factors play in the development of (differences in) behaviour?

What is the influence of the environment, upbringing and culture

Essential reading

-Gleitman, H. (1995). Psychology. (4th ed.). New York: W.W. Norton & Company. Part 5 in particular

Practical training

processing and interpreting questionnaires; to familiarize students with methods of psychological "assessment". Students will construct and subsequently interpret search (in the sense of client studies) into personal characteristics is carried out. become acquainted with the various modalities within which psychological re the reliability and validity of measurements will be considered. Finally, they will intelligence tests). In addition, they will construct a questionnaire. In this respect Objectives: To give students initial experience in constructing, administering Coordinator: Peter Muris, Psychology, tel.: 3881980, Dr Tanslaan 10, rm 3,013 parts of) tests and questionnaires which are dealt with in the module (including

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings. Assessmen

Open questions, also on the practical training

Module 1.5 Human Cognition

Coordinator: Henk Schmidt, Psychology, tel.: 3881904, Dr Tanslaan 10, rm 4.066

problem-solving. Students will become acquainted with the classical model of the information processing system which underlies these processes. comprehension, acquisition and representation of knowledge, memory, thought, This module offers an introduction to the central cognitive processes:

Description

methods of genetic mutation and (operant) learning. The following themes will be ourselves to changing conditions in our environment, in addition to the "slower In the third module, the cmphasis is on the "peripheral" aspects of human cognition. In this fifth module, attention will be focused on more central aspects. Human cognition can be considered as a "fast track" by means of which we adapt

- attention: early versus late selection; filter versus capacity theory;

distinction between episodic and semantic memory; memory: distinction between short-term ("work") and long-term memory;

 schemata and scripts; - semantic memory: the Collins/Quillian/Loftus model: spreading activation;

retrieval mechanisms;

- neurocognition; amnesia;

judging and reasoning;

problem-solving.

Essential reading

Sternberg, R.J. (1996). Cognitive Psychology. Fort Worth: Harcourt Brace College

Collection of articles

Practical Training

Coordinator: Peter Houx, Psychology, tel.: 3881902, Dr Tanslaan 10, rm 3.001. Objectives: Two forms of practical training will be given during the module: "Experimental paradigms for complex cognition" and "Applications of cognitive psychology". The objective of the first training is to provide support for the reading this experimental training will be devoted to: paradigms which are common in the field of complex cognition. Attention during to be done in this module by acquainting students with the various experimental

paired association tasks;

recall tasks;

decision tasks

chronometric analysis of responses;

acquainted with the skills utilized by cognitive psychologists in solving practical problems which arise in traffic, industry, education and health care In the training on "Applications of cognitive psychology", students will become

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings.

Assessment

Open questions, also regarding the practical training

Module 1.6 Perception

Coordinator: Herco Fonteijn, Psychology, tel.: 3881907, Dr Tanslaan 10, rm

Objectives

applications. To introduce students to the psychology of perception and acquaint them with its

Description

addition, students will become acquainted with our chemical senses in the course substratum of (visual) perception, the perception of colour, contrast and depth, and robotics contribute to its further development all the time. The biological and behavioural studies, neuroscientific research and progress in artificial intelligence of a practical training. mals are some of the issues which will be dealt with in the tutorial group. In illusions, (perceptual) attention, perceptual development and perception in ani-The psychology of perception is probably the best-developed branch of psychology

Knowledge of the capacities and limitations of the human observer can help us to organize the world more effectively. Attention will be paid to this theme, which is central in cognitive ergonomics, in a number of assignments and in a second practical training.

Essential reading

Gleitman, H. (194). Psychology. New York: Norton. Chapters 5, 6 and 7.
 Goldstein, E.B. (1996). Sensation and Perception. 4th ed. Pacific Grove, CA:

Practical Training

insights from the psychology of perception are applied to the design of pictograms. Coordinator II: Paul Ganzevies, Psychiatry and Neuropsychology, tel.: 3685319, Objectives: Practical training in cognitive ergonomics: study of the way in which Coordinator I: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059

Objectives: Odour: penetrating practical acquaintance with the perception of Vijverdalseweg 1, rm S.17.

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Teaching methoa

training meetings. 12 tutorial group meetings, 4 lectures, 1 seminar, audiovisual materials, 2 practical

20 short open-end questions. Practical training: working assignments.

Module 1.7 History and Theory of Psychology

Objectives Coordinator: Rob de Vries, Psychology, tel.: 3881894, Dr Tanslaan 10, rm 4.001

Students will learn about the origins of modern psychology and the manner in which it has developed in terms of both ideas and theories and institutional practice,

Description

history of both types of problems will be analyzed in this module, but with an emphasis on the latter type. While these problems have indeed remained unsolvable up to now, they have been sources of inspiration for much psychological research solutions to pre-existing problems. However, there are a number of unsolved problems which have occupied psychology right from the very beginning. The Many modern psychological ideas and institutions can be seen as successful l'opics include;

- the social and institutional causes of the scientific revolution;

- the rise of psychology as a consequence of the rise of the natural sciences during the scientific revolution;

the mind-body problem as arising from the scientific revolution

the development and role of experiment and laboratory in psychology;

continuity between human and animal;

what is (cognitive) psychology? - the nature and role of human consciousness in human life and in psychology;

Essential reading

- Boon, L. (1982). Geschiedenis van de psychologie. Meppel: Boom

Collection of articles.

Practical Training

ann of this training will be to teach students to describe and explain problems in the In the module, presented in the module. Students have the tendency to be vague Objectives: Development of writing skills. As part of the training, students are to when writing about historical and philosophical problems. The most importan write two essays of no more than four pages on topics related to the history and held of psychology in a clear and articulate manner. roundations of psychology. Topics are to be selected from within the field dealt with Ceordinator: Rob de Vries, Psychology, tel.: 3881894, Dr Tanslaan 10, rm 4.001.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings Assessment

Open questions. Practical training: two essays of no more than four pages

2.2.2 Parallel programme in year 1

The parallel programme consists of components which are followed apart from the modules. Although every effort is made to effect maximum integration between the always possible due to the nature of the topics covered in this programme. The parallel programme and the subject matter and themes in the modules, this is not skills I, writing skills I, research methods Ia and Ib and statistics Ia and Ib. parallel programme in the first year includes the following components: computer

2.2.2.1 Computer Skills I

Coordinator: Louis Boon, Psychology, tel.: 3881885, Dr Tanslaan 10, rm 4.002.

and learn to work with the Windows 95 operating system and a number of frequently used computer programs. In computer skills I, students will acquire basic knowledge of computer hardware

Description

The following topics will be covered:

Computer hardware

Windows 95 operating system

Networks

Word (word processing program)

nternet

University library bibliographical system and CD-ROM

Electronic card-index program

Essential reading

Schoonhoven: Academic service Boertjens, K.R. (1995). PC Combicursus Microsoft Office 95. (UK version)

Teaching method

room and the university library. Instruction will take place in the Psychology learning resources centre/computer

Components will be registered separately

2.2.2.2 Statistics la and lb

Coordinator: Nick Broers, Methodology and Statistics, tel.: 3882277, P. Debyeplein 1, rm 2.070 / Psychology, tel.: 3881929, Dr Tanslaan 10, rm 4.013.

Objectives

statistics is thus essential for evaluating the claims of psychologists compiled and which they have generally processed statistically. A good grasp of research results. They justify their decisions by referring to the data which they have forms. Psychologists accept or reject all kinds of theories on the basis of their In the first year, students will be introduced to psychological research in diverse

Section Ia consists of the following components: helping students to evaluate research results. Calculation is less important than insight. The emphasis is on introducing a number of different topics. Training in statistics in the first year is primarily conceptual and concentrates on

- descriptive statistics;
- elementary probability calculation;
- statistical relationships;
- regression analysis.
- Section Ib concentrates on: testing and assessment;
- variance analysis;
- sampling distributions;
- t-test and non-parametric tests.

For students who find statistics difficult, the CAE (computer-aided education) followed by practical exercises with this program. statistical computer program, SPSS, the Statistical Package for the Social Sciences, In addition, students will receive a brief introduction to the most frequently used

program "Dr Stat" is available.

Essential reading

Meppel: Boom. Brink, W.P. van den and Koele, P. (1985/1994). Statistiek deel 1, 2, 3 and 4.

Teaching method

17 lectures, 2 tutorial group meetings supported by a lecture. Practical training focused on the use of SPSS (Windows).

Assessment

which will be taken in modules 1.2 through 1.7. Sections Ia and Ih will be tested separately. Each tests consists of three sub-tests

2.2.2.3 Research Methods la

Objectives Coordinator: Henk Schmidt, Psychology, tel.: 3881904, Dr Tanslaan 10, rm 4.066,

When carrying out research, psychologists make use of certain methods, such as experiments, field observations and questionnaires. In the first year, students will occome acquainted with some of the most important research methods used by psychologists. These methods are primarily introduced in order to give students a

first year are thus not expected to be able to actively apply these methods in research better grasp of the psychological knowledge they already possess. Students in the

In the first year, the following topics will be presented:

- the experiment;
- control problems in experimental research:
- correlational research;
- quasi-experimental approaches;
- direct observation studies;
- archive research; using tests and questionnaires;
- interviews.

Essential reading

- Goodwin, C.J. (1995). Research in Psychology, Methods and Design. New York:
- Collection of articles.

Teaching method

the first half of the year. The tutorial group meetings will be flanked by lectures These topics will be studied on the basis of six problems in a separate course during

Assessment

Open questions

2.2.2.4 Research Methods Ib

Coordinator: Rob de Vries, Psychology, tel.: 3881894, Dr Tanslaan 10, rm 4.001

consist of and are there criteria for scientific progress? How does scientific reduction does science distinguish itself from non-science? What does scientific progress questions to be considered in this course include. What are scientific theories? How made with the help of these theories and the theories are applied in practice. The Scientists construct theories to comprehend and explain events. Predictions are

number of concepts relevant to these issues The aim is to acquaint students with such problems and introduce them to a

The following concepts will be analyzed:

inductivism; falsificationism; Kuhn's paradigm; Lakatos' research programme;

Essential reading

- Chalmers, A. (1981). Wat heet wetenschap. Meppel: Boom.
- Collection of articles

Teaching method

Tutorial group meetings and some lectures. Assessment

Open questions.

2.2.2.5 Writing Skills I: reports and essays

Coordinator: Peter Vermeer, Psychology, tel.: 3881895, Dr Tanslaan 10, rm 4.005.

skills throughout the year. students have been provided with a number of opportunities to practice writing Writing skills are essential for psychologists in scientific, psychological and social practice and students must acquire them as soon as possible. With this in mind,

Description

of the paper (the problem it formulates, the conclusion and how the conclusion is arrived at) and formulate a number of questions regarding the paper. one paper to be the subject of a report in which they will briefly relate the contents by the students are to be discussed by the students in groups. Students will choose subject. The essay will discuss a small number of relatively recent publications on first two training sessions into the writing process. In addition, the papers written that subject. The aim here is to enable students to integrate the skills learned in the ROMs. Students will learn search procedures utilizing two of these bibliographic databases, "psychlit" and "medline". The training assignment will require students In the second half of the year, students will write an essay on a general psychological to search for a number of references and display them according to APA standards. which are important to the field of psychology are available in bibliographic CDskills, will introduce students to the use of CD-ROM. The content of most journals In the first half of the year, there are two training sessions and an accompanying assignment. The first session, library training, will familiarize students with the for their writing. The second session, which forms part of the training in computer library, the source of the material which will form the subject matter or references

3 The Second Year

3.1 GENERAL

The second year falls into two distinct periods. The first six modules provide a deepening and expansion of the knowledge acquired in the first year. The final module offers students to prepare for their area of specialization or their 'major'. In the first year, students were given a survey of the various disciplines within psychology: social psychology, developmental psychology, differential psychology and experimental psychology. In the first six modules of the second year, a number of broad themes will be presented, most of which will build upon knowledge acquired in the first year. These themes have been selected in such a manner that both the cognitive and the biological psychological perspectives are essential for their study.

Module 2.1 will focus on the phylogenetic origins and evolutionary function of human behaviour patterns (and their underlying cognitive and biopsychological mechanisms). Module 2.2 will examine the extent to which the knowledge acquired in the first year can be used to explain and perhaps remedy behavioural and experiential disorders. Module 2.3 will be devoted to theories of human memory which do not consider memory as a separate, isolated function and in which all higher cognitive functions (such as learning, thinking, understanding, reasoning, judging and imagining) are integrated. This is also true for the theories derived from artificial intelligence which will be presented in module 2.5. First, though, module 2.4 will examine the structure, function and evolution of one of the most important resources for communication and mental functioning: human language. Module 2.6 will concentrate on human consciousness, an object of study of both cognitive and biological psychology. In module 2.7, students will be offered two elective courses in which they can orient themselves towards a particular specialization.

The parallel programme for this year includes two statistics programmes. The first (IIa) will be given during the September-December period, the second (IIb) will run parallel to modules 2.6 and 2.7 (April-June). Furthermore, the writing skills training in the first year will be followed up with a programme related to the English skills training course starting in the module 2.4 term, in which training in written and spoken English will be provided. Finally, computer skills II will be offered, a course in Pascal programming which runs parallel to modules 2.4 and 2.5.

.ore texts

As in the first year, the curriculum committee for the second year has prepared a list of core texts which students must acquire.

The core texts for the second year are:

I. Rosenhan, D.L. and Seligman, M.E.P. (1995). Abnormal Psychology (3rd ed.). New York: Norton & Company.

2. Baddeley, A.D. (1997). Human Memory: Theory and Practice (revised 2nd ed.). Hove, UK: Psychology Press.

3. Aitchinson, J. (1995). The Articulate Mammal: An Introduction to Psycholinguistics. London: Routledge.

5. Thagard, P. (1996). Mind. Cambridge, MA: MIT Press.

6. Norman, D.A. (1990). Dictatuur van het design. Utrecht: A.W. Bruna uitgevers B.V. This book is available onlyvia the "Luna-tik" student association (discount books).

7. Springer, S.P. and Deutsch, G. (1989). Left Brain, Right Brain. New York:
Freeman.

 Kleinbaum, D.G., Kuppet, L.L. and Muller, K.E. (1988). Applied Regression Analysis and Other Multivariable Methods. Belmont: Duxbury Press.
 Crocker, L. and Algina, J. (1986). Introduction to Classical and Modern Text

 Crocker, L. and Algina, J. (1986). Introduction to Classical and Modern Test Theory. Fort Worth: Harcourt Brace Jovanovich College Publishers.
 Beekelaar, R. (1993). Schoolboek Pascal en Turbo Pascal 7.0. Soest: Sybex.

3.2 OVERVIEW OF THE SECOND YEAR PROGRAMME

2.7 Design of Daily Life Product evaluation		2.6 Consciousness Power point	2.5 Arithmetic Computation models	2.4 Language research	2.2 Psychopathology Interviews 2.3 Memory Memory-related skills	2.1 Evolution and Behaviour Research proposal	Module Training
Presentation Statistics IIb	English Statistics IIb	English Statistics IIb	English els Programming	Essay Programming	Statistics IIa Statistics IIa ills Statistics IIa	Presentation	Parallei programme

3.2.1 Description of the modules

Module 2.1 Evolution and Behaviour

Coordinator: Harry Smit, Medical Ethics and Philosophy, tel.: 3881130, Uns 50, rm

Objective

- acquisition of basic knowledge of evolutionary theory;
- acquisition of basic knowledge of the genetic mechanisms which underlie the operation of natural selection;
- learning how to think about behaviour and psychological functions in evolutionary
- becoming acquainted with the most important ideas regarding the evolution of behaviour and cognition.

Description

of how behaviour and brain processes are generated. However, one can also ask develop in relation to the evolution of the species? about the function of behaviour. How did it, from a historical point of view In psychology and the neurosciences, attention is primarily given to the question

The following topics will be covered in problems, lectures and practical training

- Darwin's theory of evolution through natural selection.
- basic principles of population genetics; genetic variability;
- evolutionary explanations for aspects of social behaviour such as altruism; gametheoretic explanations, such as "tit for tat";
- evolutionary explanations for sexuality and gender differences in behaviour and
- the evolution of the brain and cognition;
- evolutionary explanations for the phenomenon of ageing
- evolution and health;
- inappropriate use of evolutionary explanations.

In addition, to brush up students' skills in this regard, extra attention will be given in this module to the process of working in groups and the role of the chairman.

Essential reading

Collection of articles.

Practical Training

Objectives: Students will write a research proposal based on a case history Coordinator: Peter Vermeer, Psychology, tel.: 3881895, Dr Tanslaan 10, rm 4.005.

Teaching method

10 tutorial group meetings, 5 lectures, 2 practical training meetings

Assessment

Open questions

Module 2.2 Psychopathology

Objectives Coordinator: Anita Jansen, Psychology, tel.: 3881910, Dr Tanslaan 10, rm 3.017.

etiological theories and the empirical findings which support or contradict these common behavioural disorders; their clinical picture and diagnostic criteria, theories, current treatment methods and the effectiveness of these therapies. In the course of the module, students will become acquainted with the mos

Description

eating disorders, addictions, mood disorders, psychotic and psycho-organic disdescriptions, clinical pictures will be studied, such as various anxiety disorders, The psychopathology module concentrates on disturbed behaviour. Based on case

empirical findings. Students will confront the question as to whether this situation clinical treatment and scientific thought, but that there also appear to be various theoretical "schools" which explain/treat behavioural disorders according to their favourite theories. In so doing, they base themselves on ideology rather than produced and what can be done about it? In the process, students will be struck by the fact that not only is there a sizeable gap between theory and practice, between look like? Where is the border between normal and abnormal? How is a disorder Issues which will arise during the modulc include: What does the clinical picture

Essential reading

New York: Norton & Company collection of articles. - Rosenhan, D.L. and Seligman, M.E.P. (1995). Abnormal Psychology (3rd ed.)

Practical Training

Coordinator: Geke Blok, Educational Development and Educational Research, tel.: 3881121/3881135, Uns 50, rm 5.127.

role-playing and students will have the opportunity to apply the techniques they case histories of complaints. Interview techniques will be practised by means of Objectives: During the practical training meetings, students will learn to record have learned to simulated patients with various psychological disorders

Teaching method

12 tutorial group meetings, 2 lectures per week, 6 practical training meetings lasting

Assessment

Open questions.

Module 2.3 Memory: Cognition and Neurobiology

Coordinator: Peter Houx, Psychology, tel.: 3881902, Dr Tanslaan 10, rm 3.001.
Objectives

This module will provide students with insight into an integral and essential component of any information processing system. How does memory work? A number of qualitatively different forms of memory are needed to make possible the range of cognitive functions which we continually and effortlessly execute. A childhood memory places different demands on a cognitive system than the process of remembering where you left your bicycle or finding the right word in conversation. In this module, emphasis will be placed on the role of memory in information processing. Attention will be divided equally between both cognitive and neurobiological theories of (cognitive) learning and memory. In addition, we will examine the cognitive processes which play a significant role in normally functioning memory: attention, planning, (re)construction.

Descriptio

In related assignments, students will examine the extent to which theories about brain functioning provide insight and plausibility with respect to cognitive models of memory. Where necessary (for example if a topic was not covered in the "Human Cognition" module), the initial assignment will be devoted to a comprehensive examination of one or more important models. In a subsequent assignment, these models will be tested against evidence from cognitive neuroscience. The dynamic organization of the human brain forms the basis and demarcation of cognitive systems. Upon which neurobiological mechanisms is this plasticity founded? Which cognitive theories describe learning, memory and forgetting in terms appropriate to these neurobiologicalinsights? Theoretical concepts will be illustrated with examples from psychopathology and neuropsychology only in so far as abnormalities reveal something about the normal functioning of cognitive processes.

Essential reading

Baddeley, A.D. (1997). Human Memory: Theory and Practice (revised 2nd ed.).
 Hove, UK: Psychology Press.
 -collection of articles.

Practical Training

Coordinator: Peter Houx, Psychology, tel.: 3881902, Dr Tanslaan 10, rm 3.001. Objectives: The aim of the practical training meetings is to familiarize students with the most important paradigms in the psychology of memory and teach them to conduct standard memory tests. Students will acquire knowledge and practical skills with respect to the measurement of memory-related processes. In the first part of the training, students will become acquainted with prominent methods for measuring memory and memory-related processes. They will learn how to conduct a complete study into memory-related processes utilizing experimental and clinical/neurocognitive tests. Students will then apply this knowledge to the study of three individuals (young adult, middle-aged and elderly).

Teaching method

ς. 4 12 tutorial group meetings, 6 lectures, 2 practical training meetings.

Assessment

Open questions

Module 2.4 Language

Coordinator: Rob de Vries, Psychology, tel.: 3881894, Dr Tanshan 10, rm 4.001. Objectives

To introduce students to linguistic research into the structure, psychological research into the function and dysfunction and biological research into the evolution of human linguistic ability and its place within the cognitive system. Introduction to the perspective of linguists and psycholinguists on the nature of the cognitive system.

Description

The capacity to use language is one of the most important conditions for human social and cognitive functioning. Topics to be covered include:

- Linguistic structure. The linguistic descriptions of the structure of our language competence; the language acquisition device (LAD); the modular structure of our linguistic capacity (phonological, syntactic and semantic conceptual modules); the difference between grammar as etiquette and grammar as the description of our linguistic knowledge system.
- Language acquisition. Language learning versus parameter setting; facility of learning; the jump from Pidgin to Creole languages as argument for a specifically linguistic bioprogram for language learning.
- Language processing.
- Language production.
- Impaired and defective linguistic ability, Genetic defects as cause of a particular linguistic disorder; selective influence of brain damage on the various language modules.
- Modules. Can the human language acquisition model serve for modules in other areas? Is there such a thing as a social module? Do autistic people lack such a capacity? Are there specific modules to help people acquire knowledge of fauna and flora?

Essential reading

- Aitchinson, J. (1995). Linguistics: An Introduction, London: Hodder & Stoughton.
- Aitchinson, J. (1995). The Articulate Mammal: An Introduction to Psycholinguistics. London: Routledge.

Practical Training

Coordinator: Leo Blomert, Psychology, tel.: 3881949, Dr Tanslaan 10, rm 4011. Objectives: The practical training will focus on experimental methods of language research.

Teaching method

12 tutorial group meetings, 7 lectures, practical training meetings

Assessment

Open questions

Module 2.5 Arithmetic

Coordinator: Herco Fonteijn, Psychology, tel.: 3881907, Dr Tanslaan 10, rm 4066a Objectives

Introduction to cognition science. Introduction to the use of computational models in cognitive and biological psychology.

Description

Psychological hypotheses are more and more frequently specified in the form of computational models. Their precision, transparency and heuristic value on the one hand and the availability of adequate computational capacity on the other contribute to the popularity of these models. In cognitive psychology, the symbolistic architectures for problem-solving, reasoning and acquiring knowledge and the connectionist models for more elementary processes such as learning, categorizing, perception, memory and attention have become central in the formulation of theories. In biopsychology, theories are developed and tested with the help of models of neuron and neuron network behaviour. In addition, genetic algorithms and algorithms for machine learning, as well as developments in the field of artificial life, robotics, computer linguistics and knowledge systems, all have psychological relevance. In this module, a number of influential architectures and algorithms will be discussed in connection with the diverse (bio) psychological phenomena which have determined their form.

Essential reading

Thagard, P. (1996). Mind. Cambridge, MA: MIT Press.

collection of articles.

Practical Training

Coordinator: Herco Fonteijn, Psychology, tel.: 3881907, Dr Tanslaan 10, rm 4.066a.

Objectives:

- Further acquaintance with a number of influential computational models.

Increasing programming skills.

Teaching method

12 tutorial group meetings, 6 lectures, supplementary mathematics classes, audiovisual materials, practical training assignments.

Assessment

Open questions. Practical training: working assignments

Module 2.6 Consciousness

Coordinator: Louis Boon, Psychology, tel.: 3881885, Dr Tanslaan 10, rm 4,002 Objectives

Getting acquainted with the latest cognitive and neuropsychological theories of consciousness. Philosophical reflection on problems related to the concept of consciousness. Consideration of the relevance of consciousness for psychological practice.

Description

Consciousness, conscious experience and perception were the most important subjects of nineteenth-century psychology. For two reasons, the object of psychology shifted from consciousness to behaviour. In the first place, objective research into conscious experience proved to be impossible. Secondly, consciousness could be given no place within the existing world view of natural science. Consciousness thus disappeared from the field of psychology to become a subject for philosophers. The decreased influence of behaviourism and the rise of modern cognitive psychology in the 1960s did not rehabilitate consciousness. Only in the last decade has consciousness again assumed a place in cognitive psychology and neuropsychology. Currently, consciousness is again seen as one of the most important aspects of mental life. This module will consider the evolution, structure, material basis and role of consciousness in mental life, as well as the philosophical problems around the relationship between conscious experience and the material processes which underlie these conscious processes.

Practical Training

Coordinator: Louis Boon, Psychology, tel.: 3881885, Dr Tanslaan 10, rm 4.002. Objectives: Students will learn to prepare and give a presentation on a topic covered in this module. In the process, they will learn to utilize modern communication and educational resources.

Essential reading

To be announced.

Teaching method

12 tutorial group meetings, 6 lectures, practical training meetings.

Assessment

Open questions. Practical training: presentation.

Module 2.7: choice between 2.7.A and 2.7.B

Module 2.7.A The Design of Daily Life

Coordinator: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059. Objectives

Based on applications from cognitive psychology, students will be introduced to

topics from their degree course on cognitive psychology.

on applications in the areas of work, propaganda, traffic, law and medicine, it will attempt to provide a broad introduction to the field of cognitive psychology. In system as a whole on the basis of human cognitive functioning in daily life. Based In contrast to earlier instruction in cognitive psychology, which focused primarily on isolated elements of human cognition, this module will deal with the cognitive in cognitive ergonomics and educational psychology. particular, attention will also be devoted to themes from the degree course options

can contribute to better control over our daily life. with. This module will introduce students to ways in which cognitive psychology which seem to be part of daily life, annoyances which everyone simply learns to live or exit, incomprehensible operating instructions. Inconveniences and impediments packaging which is impossible to open, buildings where you can't find the entrance The aim of cognitive ergonomics is to relate scientifically tested knowledge about We are all familiar with such inconveniences. Products which are hard to use, human cognitive architecture to the daily inconveniences which we all experience.

developments in the field of education. comprehending the nature of these changes in the course of time and on technological the result of education. Among other things, this module will focus on the cognitive and social changes experienced by children, adolescents and adults as the influence of instruction and interaction. Students will become acquainted with Educational psychology is concerned with the ways in which people change under

Essential reading

- Norman, D.A. (1991). Dictatuur van het design. Utrecht: A.W. Bruna uitgevers
- collection of articles

Practical Training

evaluated. Students will report on the various phases of the project by means of a Objectives: Working in teams, students will acquire experience in conducting a poster presentation. product evaluation project in which an existing "implement" will be systematically Coordinator: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059.

Teaching method

12 tutorial group meetings, 6 lectures, 2 practical training meetings

Open questions, practical training report in the form of poster presentation.

Module 2.7.b Cerebral Asymmetry

Coordinator: Harald Merckelbach, Psychology, tel.: 3881945, Dr Tanslaan 10, rm

Objectives

- Knowledge of the structural differences between the left and right halves of the

- Knowledge of the psychological differences between the two haives of the brain. - Knowledge of the implications of these differences for developmental psychology and psychopathology.

Description

attention successively to clinical neuropsychological case studies, experimental neuropsychology and psychophysiology. Consideration will be given to the significance of these differences is frequently overestimated. brain provide an interesting and useful introduction to biopsychology but that the and psychopathology. The message of the module is that left-right differences in the implications of various aspects for disciplines such as developmental psychology inventory such differences. Beginning with an historic approach, it will then devote to be mediated through one hemisphere rather than the other. This module will some neurotransmitters have a greater concentration in one hemisphere than in brain ("cerebral asymmetry"). An example of a structural difference is the fact that the other. An example of a functional difference is the fact that some emotions tend There are both structural and functional differences between the two halves of the

Essential reading

- Springer, S.P. and Deutsch, G. (1989). Left Brain, Right Brain. New York:
- collection of articles

Practical Training

1. Coordinators: Peter Muris, Psychology, tel.: 3881980, Dr Tanslaan 10, rm 3.013 and Peter Houx, Psychology, tel.: 3881902, Dr Tanslaan 10, rm 3.001. Objectives: To familiarize students with questionnaires and tests which are rele-

vant for this module (3 hours).

0.12 and Eric Vuurman, Neuropsychology, tel.: 3881046, Universiteitssingel 50, 2. Coordinators: Fren Smulders, Psychology, tel.: 3881909, Dr Tanslaan 10, rm

Objectives: Brief practical training in psychophysiology (4 hours)

eaching method

12 tutorial group meetings, 4 lectures, 2 practical training meetings.

ssessment

Open questions

5.2.2 Parallel programme in the second year

in writing skills will begin in the autumn and in part run parallel with the English course which begins in January. A training course in "Presentation" will be organized as part of the writing instruction in module 2.1. Training in computer in two periods, during modules 2.1 through 2.3 and modules 2.6 and 2.7. Instruction related to the instruction which was provided in the first year. Statistics will be given (.Ib) and computer skills II. With the exception of English, all these subjects are The parallel programme includes statistics Ha and Hb, writing skills Ha and English

skills will run parallel to modules 2.4 and 2.5.

3.2.2.1 Computer Skills II

Coordinator: Siebren Groothuis, Medical Information Technology, tel.: 3882229, P. Debyeplein 1, rm 1.096.

Objectives

In the second year, computer skills training will consist of an introduction to programming. Students will learn to consider problems in terms of algorithms and data structures and will use computers to solve these problems.

Description

Learning to program will help students to clarify the "black box" which the computer still is for most people. Such insight is important to psychologists. Cognitive psychologists, for example, can play an important role as mediators between designers and end users and must thus learn to communicate in the language of the designer. Moreover, programming clarifies the analogy between menandcomputer, which has been instrumental in the formulation of psychological theories since a long time (see module 2.5, which runs during the same period with the computer skills training). Finally, programming skills will lead to a better understanding of word processors, data-base software and other applications with which all psychologists will be confronted in daily practice.

Essential reading

- Beekelaar, R. (1993), Schoolboek Pascal en Turbo Pascal 7.0. Soest: Sybex.

Teaching method

10 tutorial group meetings, lectures, practical training.

1ssessment

Working assignments and final test with multiple choice and open questions.

3.2.2.2 Statistics Ita and IIb

Coordinator: Martijn Berger, Methodology and Statistics, tel.: 3882258/3882395, P. Debyeplein 1, rm 2.063.

Objectives

In the second year, students will be given further training in more complex statistical methods of data processing and psychometrics.

Description

The material for the second year consists of two sections. In the first section (IIa) regression and variance analysis will be studied. The second section (IIb) will deal with psychometric methods.

Part II

This section will be devoted to a detailed study of general linear models, such as regression analysis and variance analysis. Topics presented include simple and

multiple regression analysis, co-variance analysis, model construction and the use of dummy variables. In addition, simple and multiple variance analysis will be comprehensively studied with multiple comparisons, fixed versus random effects and repeated measurement models.

Essential reading

 Kleinbaum, D.G., Kupper, L.L. and Muller, K.E. (1988). Applied Regression Analysis and Other Multivariable Methods. Belmont: Duxbury Press.
 Teaching method

6 lectures, 6 seminars and a number of SPSS practical computer sessions

Part IIb

This section provides a comprehensive introduction to classical and modern psychometric techniques. Consideration will be given to the classical test model, reliability and validity, and modern test theory, including the 1-, 2- and 3-parameter logistical models.

Essential reading

 Crocker, L. and Algina, J. (1986). Introduction to Classical and Modern Test Theory. Fort Worth: Harcourt Brace Javonovich College Publishers.
 Teaching method

4 lectures and 4 seminars with exercises from the book based on the computer work. Assessment

Each section will be concluded with a separate test.

3.2.2.3 Writing Skills IIa: Presentation and Essay

Coordinator: Peter Vermeer, Psychology, tel.: 3881895, Dr Tanslaan 10, rm 4.005.

Objectives

Writing instruction in the second year rests on the groundwork created in the first year. In this year two essays will have to be written.

Description

The essays will have general psychological topics. They will be evaluated in a standard manner. The essays are to be presented by the students to the other members of their tutorial group. Prior to this presentation, the training on "Presentation" will be given in module 2.1. This is section IIa.

The second essay is to be written in English. It is also to be presented in English. This is section IIb. Writing skills instruction will here be integrated with English instruction. Performance in the English course will be evaluated on the basis of the second essay and presentation.

3.2.2.4 English Skills Training Course IIb: English and Essay

Coordinator: Peter Vermeer, Psychology, tel.: 3881895, Dr Tanslaan 10, rm 4.005.

Aim of the course

- to develop the students' academic writing skills in English, by training them to write short texts including summaries;
- to extend the students' abilities in speaking English, focusing on presenting and

Writing objectives are concerned with five aspects:

- support, satisfying conclusion); clear writing (readership, clear aim, logical structure of argument, concise
- sentence structure, tenses, adjective/adverb, prepositions); language accuracy (grammatical accuracy, especially the main problem areas
- mechanics (punctuation);
- tocusing structures, active-passive choices, denominalization), and readability aspects (key words, topic-comment structure and topic chaining
- techniques of revision and editing.

Speaking objectives are concerned with

- giving presentations, and
- reading and participating in discussions.

science context, such that they might have to be explained to non-specialists, or the general public. The focus would be on presenting and discussing psychological issues in a popular

to promote the understanding of the presentation or the conduct of the discussion should show an ability to handle appropriate rhetorical and signalling expressions relatively formally, accurate use of language, appropriate use of vocabulary. Students parallel blocks. The aim would be to develop the students fluency in speaking The issues would not necessarily be directly related to the topics being treated in the

Description of the course

write full-scale academic papers. discussion. In writing, the purpose is to train the students in the skills required to different purposes, and give one individual (or joint) presentation and lead one Students should write four short papers during the course, designed for several

in small groups sessions every three weeks. paper and will provide guidance and feedback on that. Feedback will be provided feedback, revision and development. The course will lead up to the second-year For this reason the structure of the course includes extensive opportunities for

by one on speaking skills followed by the small group feedback session, sessions will also include techniques in presenting (language aspects), language material) and will be in the form of semi-formal and formal meetings. The 'oral In general there will be successively one session devoted to writing skills followed teedback, and language development tasks (e.g. vocabulary or expression expansion) be partially setso that all students could prepare (eg, by reading relevant background while the discussion will be led by two or three students. The discussion topics wil lead one discussion during the course. The presentations may be done in pairs As for presentation and discussions, each student should give one presentation and

Number of training sessions

10 sessions of two hours each, plus every third week a feedback session (30

Assessment

assessment of each students progress will come in the final second paper, which will Students would be evaluated on a continuous assessment basis. The ultimate be presented as well.

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4 The Third Year

4.1 GENERAL: THE DEGREE COURSES / SPECIALIZATIONS

In the third year, students select one of two specializations, i.e. biological or cognitive psychology. Within these programmes, students can specialize further by narrowing down their program on a specific field. The third year is structured in such a way that students will be presented with specialized aspects of their specialization during the first three modules (September through December). The remaining four modules will be devoted to one of two options. For cognitive psychology, the options are cognitive ergonomics and educational psychology. Within the biological psychology specialization, one may select options in neuropsychology or developmental psychology. In addition, once they have completed the cognitive or biological psychology specialization, it is possible for students to follow the psychopathology specialization of the "Mental Health Sciences" programme of the Faculty of Health Sciences.

During the first three modules of the third year, all students will be given the same

parallel programme: computer skills III and statistics III. Thereafter, specific skills will be trained in relation to the modules. Students will also be expected to write a third-year thesis in the course of this year.

4.2 THE COGNITIVE PSYCHOLOGY DEGREE COURSE

During the first three modules, students will successively be confronted with three specialized areas of human activity which have been intensively studied by cognitive psychologists: "Work", "Propaganda" and "Law". These areas have been selected so that the emphasis in each module will be placed on one or more of the mental faculties which characterize human cognition. In the "Propaganda" module, for example, perception, attention and emotion are central. In addition, there is ample space for a multidisciplinary approach: aspects of clinical psychology will be dealt with in the context of "Law", organizational psychology will be considered during the "Work" module, and so forth. This will all be presented, of course, against the background of a primary cognitive approach. These basic modules in cognitive psychology will be followed by an introduction to two related degree options: cognitive ergonomics and educational psychology.

4.2.1 Programme in Cognitive Psychology

In a large number of modules during the first two years of the psychology programme, students were introduced to the science of cognition in general and cognitive psychology in particular. The knowledge which students have acquired regarding the various psychological disciplines will be deepened and applied during the third-year cognitive psychology course.

regarding the various psychological disciplines will be deepened and applied during the third-year cognitive psychology course.

The "Work" module examines the role which the cognitive psychologist can play in companies and organizations. Elements will also be considered from related fields such as systems theory, industrial and organizational psychology and

psychophysiology.
The "Propaganda" module will call on acquired knowledge of perception, attention and emotion. In addition, topics taken from communication science, social cognition and psychophysiology (attitude measurement) will be considered as part of the "Advertising" theme and the related themes on influence and information. "Law" builds on the knowledge which students have acquired about the operation of memory. Additional themes from cognitive psychology to be considered in the module include decision-making, reasoning and the reliability of the cognitive system. This module will also aid students in deepening their insight into clinical psychology and the legal system.

4.2.1.1 Overview of the Modules

Module 3.1.a Work

Coordinator: Jettie Hoonhout, Psychology, tel.: 3881954, Dr Tanslaan 10, rm 4.061.

Objectives 5 |

- Introduction to a number of important themes from industrial and organizational psychology.
- Insight into the contributions which cognitive psychologists can make in adjusting the working environment (in the broadest sense of the term) to the possibilities and limitations of human beings.

Description

The relationship between man and work is an important theme in psychology. Under this heading, highly diverse aspects such as mental load, group behaviour, training, etc., are studied. On the one hand the aim is to optimize job performance; on the other it is to promote the health and welfare of the worker. From the point of view of an industrial organization, it is important that the work be carried out efficiently. Both the organization of the work and the production process as well as the possibilities and limitations of the labour force are important factors in this respect. Important points from the employees' point of view include the nature of the work and the circumstances under which it must be performed. The above aspects will be examined from the vantage points of cognitive, industrial and organizational psychology. Topics to be considered include organizational dynamics and structure, systems theory, job distribution and distributed cognition, safety,

Essential reading job analysis, effects of working conditions on job performance and stress

Collection of articles

Practical Training

Coordinator: Jettie Hoonhout, Psychology, tel.: 3881954, Dr Tanslaan 10, rm

examined during the practical training meetings. Objectives: The practical sides of a number of themes from the module will be

Teaching method

10 tutorial group meetings, 5 lectures, 3 practical training meetings.

Open questions.

Module 3.2.a Propaganda

Coordinator: Herco Fonteijn, Psychology, tel.: 3881907, Dr Tanslaan 10, rm

Objectives

changes while enabling them to apply and deepen their knowledge of cognitive To introduce students to theories regarding influence and behavioural and attitude

considered include mass communication models, attitude change, deception and educational material. Students will concentrate particularly on the manner in which the different messages exercise influence. This theme will be studied on pop-out effects and the influence of modality of perception. influence, colour and emotion, aesthetics, form and composition, attention and marketing, social psychology and, of course, cognitive psychology. Topics to be and includes psychophysiology, the psychology of perception, linguistics, semiotics, ambiguity in advertising texts, paralinguistics and rhetoric, semiotics and visual various levels. The list of contributing disciplines is thus exceptionally heterogenous for example, advertising messages, information campaigns, psychotherapy or communication which are focused on influencing human behaviour by means of influence. In this module, students will study forms of individual and mass Human communication may serve many ends. It can entertain, inform and

Practical Training

Research into the effectiveness of bus advertising, involving simulation of the circumstances under which the average person in traffic perceives bus advertising. and so-called pop-out effects via reaction time research. Practical Training Objectives: Practical Training 1. Further introduction to (visual) search procedures With the help of questionnaires, the extent to which advertising on the sides of Coordinator: Fren Smulders, Psychology, tel.: 3881909, Dr Tanslaan 10, rm 3.012.

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buses has the desired effect will be determined Essential reading

Collection of articles

Leaching method

12 tutorial group meetings, 4 lectures, practical training, audiovisual material

20 short open-end questions

Module 3.3.a Law

Coordinator: Harald Merckelbach, Psychology, tel.: 3881945, Dr Tanslaan 10, rm

Objectives

- Knowledge of cognitive psychological applications in the administration of
- Knowledge of important paradigms in empirical research in this field

Description

emphasis on investigating criminal law cases from a psychological standpoint. Technical legal questions will receive considerably less attention. the lie detector. These topics will be examined during this module, with the certain interrogation techniques and the diagnostic value of instruments such as with topics such as personal identification, the validity of testimony, the effect of prosecutors and lawyers are calling on the expertise of psychologists in connection In America, and to an increasing extent in the Netherlands as well, judges,

Essential reading

- Koppen van, P.J., Hessing, D. and Crombag, H. (1997). Het hart van de zaak:
 Psychologie van het recht. Deventer: Gouda/Quint.
- Collection of articles.

Practical Training

Objectives: To familiarize students with a number of methods for evaluating testimony. Topics: suggestibility, criteria-based content analysis (CBCA) and lie detection. Coordinator: Eric Rassin, Psychology, tel.: 3881944, Dr Tanslaan 10, rm 3.011.

L'eaching method

12 tutorial group meetings, 4 lectures, 3 practical training meetings.

assessment

Open questions.

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4.2.2 Degree Course Option: Cognitive Ergonomics

The aim of ergonomics is to design implements, technical systems and tasks in such a manner that human safety, health, comfort and efficient performance is promoted. It will be obvious from this description that ergonomics focuses on practice, i.e. that ergonomists attempt to translate scientifically validated knowledge about human possibilities and limitations into practical guidelines and recommendations. The provision of this knowledge is not restricted to a single discipline but can in principle take place on the basis of any relevant area of science. Due to the interdisciplinary character of ergonomics, ergonomists are often psychologists, doctors or engineers. Cognitive ergonomics can be considered as the branch of ergonomics which is concerned with adapting tasks, systems and implements to the human cognitive system. In practice, such adaptation rarely appears to be based on (cognitive) theory but primarily on common sense and tradition. Faulty adaptation not only results in poor performance but also involves significant risks to health and safety. The cognitive ergonomist attempts to design "user-friendly" tasks and systems which are optimally adapted to the manner in which people perceive, decide, reason, learn and solve problems.

In the proposed degree course option in cognitive ergonomics, students will acquire knowledge and skills which will enable them to analyze, design and evaluate tasks, systems and implements. The course builds on the knowledge of work and organizations acquired in module 3.1.a and assumes advanced knowledge of perception and attention (including psychophysiology) as provided in module 3.2.a. In "Learning and Education" (module 3.4.1), learning and the acquisition of knowledge are central, two themes which were presented only summarily in the first two years but which are essential for the rest of the modules in this degree course option. Subsequently, two modules will devote attention to interaction with technical (the computer, for example) and classical (manuals and instructions for use, etc.) means of information and knowledge transfer (modules 3.5.1 and 3.7.1). A recent development in the transfer of knowledge is the process of addressing various sensory modalities by means of different media. In the third module in the degree course option, extensive attention will be devoted to the cognitive crgonomic aspects of multimedia knowledge transfer (3.6.1).

Core texts

The following core texts have been selected for the degree course option in cognitive ergonomics:

Resnick, L.B. (ed.; 1989). Knowing, Learning and Instruction. Hillsdale, NJ: Lawrence Erlbaum.

- Preece, J., Rogers, Y., Sharp, II., Benyon, D., Holland, S. & Carey, T. (1994). Human-Computer Interaction. Wokingham, England: Addison-Wesley.

4.2.2.1 Overview of the Modules

Module 3,4,1 Learning and Education

Coordinator: Henk Schmidt, Psychology, tel.: 3881905, Dr Tanslaan 10, rm 4.066

Objectives

- What are the characteristics of learning by means of instruction and what requirements are specific to such learning?
- What are the existing forms of instruction?
- In particular, what are the characteristics of problem-based learning
 Description

Our knowledge about how people learn was until recently based primarily on laboratory experiments in which test subjects processed elementary materials such as lists of words under strictly controlled conditions. But how does someone learn to understand the history of Europe? Or interview techniques? This module will be concerned with questions such as these. The accent in this respect will be mainly on the instruction methods which have been developed in recent years, based on our continually growing knowledge of human cognition. In the process, social and biological aspects will also be considered. Topics:

- learning as the construction of mental models of reality;
- the creation and maintenance of misconceptions, in particular in the natural sciences;
- connectionist views of learning;
- cognitive load;
- intrinsic versus extrinsic motivation; computer games
- learning from texts;
- learning from examples;
 learning from peers;
- learning to think and solve problems;
- uransfer of knowledge;
- "cognitive apprenticeship".

Essential reading

- Resnick, L.B. (1989). Knowing, Learning and Instruction. Hillsdale, NJ: Lawrence Erlbaum.
- Collection of articles,

Fractical Training Coordinator: Jeroe

Coordinator: Jeroen van Merriënboer, Psychology, tel.: 3881953, Dr Tanslaan 10, rm 4.055.

Objectives:

- 1. Students will analyze the level of knowledge of groups of schoolchildren and prepare a lesson for them which they will then present themselves.
- 2. Students will construct assignments for a problem-based curriculum.
- 3. Students will analyze the cognitive and social processes which can be perceived in a group of children working together.

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings.

Assessment

Open questions. The practical training will be concluded with a report.

Module 3.5.1 Manuals and Instructions for Use

Coordinator: Jettie Hoonhout, Psychology, tel.: 3881954, Dr Tanslaan 10, rm 4.061.

Objectives

- Introduction to insights and findings in the field of "Information Design".
- Introduction to research methods for evaluating and developing information design products such as instructions for use, warnings, forms and pictograms.

Description

Information design is an interdisciplinary field in which cognitive psychologists, ergonomists, experts in applied linguistics and graphic designers are involved in the process of developing adequate graphic communication aids such as manuals, pictograms, etc. Following a theoretical introduction, the possibilities and limitations of language, text, figures and symbols as means of communication will be examined on the basis of numerous examples. Some examples will be given detailed attention: instructions for use, manuals for (complex) equipment, warnings, medicinal instructions and pictograms. Consideration will also be given to instruction material for special target groups, such as children, the elderly and the handicapped. Students will acquire the knowledge and skills required to evaluate and optimize the effectiveness of the above information carriers.

Essential reading

Collection of articles.

Practical Training

Coordinator: Robert van Doorn, Psychology, tel.: 3881926, Dr Tanslaan 10, rm 4.066a.

Objectives: Students will receive practical training in various methods of testing the effectiveness of diverse information carriers.

Teaching method

12 tutorial group meetings, 6 lectures, 2 practical training meetings

Assessment

Open questions.

Module 3.6.1 Multimedia

Coordinator: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059.

Objectives

- Knowledge of theories from cognitive psychology which are relevant to multimedia information transfer.
- Knowledge of multimedia applications in education and communication.
 Knowledge of technological possibilities in relation to multimedia.

Description

The central question in this module has to do with the manner in which, from the

standpoint of cognitive ergonomics, knowledge of technology and applications is to be utilized to construct a multimedia product which is optimally adapted to the possibilities and limitations of the user's cognitive system. To answer this question, consideration will first be given to the human cognitive aspects of multimedia. Basic psychological knowledge of the possibilities and limitations of the cognitive system will be discussed within the context of multimedia information processing. The technological aspects of multimedia will then be examined. Students will be introduced to technological possibilities for multimedia presentation of information. Special attention will be devoted to multimedia applications, virtual reality, etc.) and for communication will be devoted to multimedia applications, video-telephone, video conferencing, etc.). Classical information carriers which involve multisensorial interaction with the user, such as a figure with accompanying text, will also be examined. Finally, detailed consideration will be given to a systematic approach to multimedia applications (analysis, (re)design, evaluation).

Essential reading

Collection of articles.

Practical Training

Coordinator: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059. Objectives: In the practical training, students will evaluate an existing multimedia application or develop a new one on the basis of cognitive psychology. For this surpose, a systematic approach to the problem will be followed, with central importance given to the analysis, (re)design and evaluation of the multimedia application.

Teaching method

12 tutorial group meetings, 6 lectures, 2 practical training meetings.
Assessment

Open questions.

Andule 3.7.1 Human-Computer Interaction

Coordinator: Robert van Doorn, Psychology, tel.: 3881926, Dr Tanslaan 10, rm 4.066a.

Objectives

- Which human characteristics, and characteristics of human organizations, must the interface developer take into account?
- Which different types of interface are available?
- What are the strong and weak points of interfaces in the light of our knowledge of human functioning?

Description

Human-computer interaction forms an important new multidisciplinary area of work for cognitive psychology. It is concerned with the application of scientific knowledge and skills related to cognition in a technological environment. By

will be dealt with, such as input and output devices and interaction styles. Finally, extensive attention will be given to the design of human-computer interaction we will examine not only the characteristics of the cognitive system but also the user's social and organizational context. Subsequently, the technological aspects (methods and techniques, support and evaluation). insight into the human characteristics required for these purposes. In the process, processes, of technology, and of the relationship between the two. To teach students to evaluate whether a system is easy to use or learn, this module will first provide cognitive ergonomist must have knowledge of human behaviour and its underlying fatal errors, etc.). To adapt tasks and implements to the cognitive system, the cognitive capacities generate significant health and safety risks (disability, stress, problems. It is known that tasks which are not well-adapted to human physical and adapted to the ways in which people perceive, decide, reason, learn and solve technology, it is attempted to design user-friendly systems which are optimally combining knowledge of human cognitive characteristics with knowledge of

Essential reading

- Preece, J., Rogers, Y., Sharp, H., Benyon, D., Holland, S. & Carey, T. (1994). Human-Computer Interaction. Wokingham, England: Addison-Wesley.

Practical Training

evaluate a software package. according to various principles (menu structure, window structure, etc.) and Objectives: In the practical training, students will compare interfaces designed Coordinator: Fred Paas, Psychology, tel.: 3881911, Dr Tanslaan 10, rm 4.059.

Teaching method

12 tutorial group meetings, 6 lecturcs, 6 practical training meetings.

Open questions. The practical training will be concluded with a report

4.2.3 Degree Course Option: Educational Psychology

experience and knowledge. concentrates on learning in adequate contexts and emphasises the social character of learning. This is in line with the points of departure which characterize problemwhich means that learning is regarded as a process of constructing knowledge. It based learning itself and about which psychology students thus have a good deal of the effects of instruction on them. The Maastricht approach is highly constructivist, feel. Educational psychology studies these changes, giving particular emphasis to development. Development of what they know, what they can do and what they Education is an attempt to create an environment for people which stimulates

The first module, "Learning and Education", is identical to module 3.4.1 in the cognitive ergonomics course. The second module (3.5.2) will be devoted to the normal social and intellectual development of children and adolescents. While the skills and the role of educational technology in this process. The fourth module knowledge, the third module focuses on the learning of procedural knowledge or first module concentrates primarily on the process of acquiring declarative

> preferences in children and the accompanying supervisory tasks. theme is the role of the psychologist in the study of school suitability and carees concerns the evaluation of learning performance, with particular attention given to the testing of complex knowledge and skills in realistic settings. A closely related

The following core texts have been selected for the degree course option in

educational psychology:
- Resnick, L.B. (ed.; 1989). Knowing, Learning and Instruction. Hillsdale, NJ: Lawrence Erlbaum.

- Carey, S. (1985). Conceptual Change in Childhood. Cambridge, MA: MIT Press.

4.2.3.1 Overview of the Modules

Module 3.4.2 Learning and Education

Objectives Coordinator: Henk Schmidt, Psychology, tel.: 3881905, Dr Tanslaan 10, rm 4.066.

- requirements are specific to such learning What are the characteristics of learning by means of instruction and which
- What are the existing forms of instruction?
- In particular, what are the characteristics of problem-based learning

continually growing knowledge of human cognition. In the process, social and biological aspects will also be considered. Topics: the instruction methods which have been developed in recent years, based on our concerned with questions such as these. The accent in this respect will be mainly on to understand the history of Europe? Or interview techniques? This module will be as lists of words under strictly controlled conditions. But how does someone learn laboratory experiments in which test subjects processed elementary materials such Our knowledge about how people learn was until recently based primarily on

- learning as the construction of mental models of reality;
- the creation and maintenance of misconceptions, in particular in the natural
- connectionist views of learning;
- cognitive load;
- intrinsic versus extrinsic motivation: computer games;
- learning from texts;
- learning from examples;
- learning from peers;
- learning to think and solve problems;
- transfer of knowledge;
- "cognitive apprenticeship"

Essential reading

- Resnick, L.B. (1989). Knowing, Learning and Instruction. Hillsdale, NJ: Lawrence

Collection of articles

Practical Training

Coordinator: Jeroen van Merriënboer, Psychology, tel.: 3881953, Dr Tanslaan 10.

Objectives:

Students will analyze the level of knowledge of groups of schoolchildren and prepare a lesson for them which they will then present themselves.

Students will construct assignments for a problem-based curriculum.

- Students will analyze the cognitive and social processes which can be perceived in a group of children working together.

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings

Open questions. The practical training will be concluded with a report

Module 3.5.2 Intellectual and Social Development

Coordinator: Peter Muris, Psychology, tel.: 3881980, Dr Tanslaan 10, rm 3.013

- How does instruction influence the cognitive development of children

Which cognitive processes underlie this development?

What is the role of the school in the social development of children?

Description

competence; faltering development; mentally handicapped children ahead of their language development; development of memory capacity; development of learning strategies; metacognition, "theory of mind" in children; development of social social character of learning, such as Vygotski, will also be presented. Finally, the crucial role of language will be examined. Authors who place great emphasis on the on the basis of the development of expertise in diverse fields. Additional topics: module will devote attention to development as the result of experience, elucidated of cognitive spurts, with consideration given to the biological evidence as well. The Special attention will be devoted to the theoretical basis and practical consequences of this theory for the design of instruction; child-centred versus teacher-centred development will be used as the starting point, with the accent on the implications education can intervene in these processes to optimize them. Piaget's theory of developments which take place during this period and the manner in which documents these changes, with the emphasis on the cognitive and social of themselves and their world and in what they are able to do. This module in school. During this period, enormous changes take place in their understanding Between the ages of four and eighteen, children spend approximately 15,000 hours

Essential reading

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Carey, S. (1985). Conceptual Change in Childhood. Cambridge, MA: MIT Press

Collection of articles

Practical Training

Coordinator: Hedwig van Bakel, Psychology, tel.: 3881956, Dr Tanslaan 10, rm

Objectives:

Students will interview children of various ages to obtain an impression of the - Students will make a detailed analysis of the development of language in children aged four to six.

Teaching method

manner in which metacognitive ideas develop.

12 tutorial group meetings, 6 lectures, 6 practical training meetings

Open questions. The practical training will be concluded with a report

Module 3.6.2 Skills, Technology

rm 4.055Coordinator: Jeroen van Merriënboer, Psychology, tel.: 3881953, Dr Tanslaan 10,

Objectives

- How do people acquire skills?

- What are the different types of skills?

How can technology support the acquisition of skills?

interpersonalskills, such as chairing a meeting, making a presentation or interviewing a client. In the examination of cognitive skills, the module will lean heavily on Anderson's ACT-R theory, which students will have encountered earlier in the attention will be devoted to the possibilities and limitations of technological Education is not focused exclusively on the acquisition of knowledge. The acquisition of skills has an equally important place. This module will examine the manner in which skills are learned. It will not be restricted to the "classical" skills (reading, to help acquire skills in a given field. Additional topics: multimedia resources (computer, videodisc, video and audio) which can be used curriculum. Behavioural skills will be dealt with in the context of behaviouristic learning theories, including Bandura's social learning theory. Finally, considerable such as those required to construct a wooden cupboard or palpate an ankle, and writing, arithmetic) but will also devote considerable attention to manual skills,

Learning to solve problems in mathematics and the natural sciences

Learning to write reports.

Learning to make presentations

Learning to program.

Essential reading

Collection of articles

Year 3

Practical Training

Universiteitssingel 50, rm 5.109. Coordinator: Willem de Grave, Educational Development & Research, tel.: 3881117,

Objectives.

- Students will design a course in "reflecting feelings" for a psychotherapy training
- group discussions. programme. Students will develop a multimedia programme to support training in leading
- With the help of the ACT Programming Tutor, students will carry out a number of exercises to help them learn to program in PASCAL.
- Students will design a training course in study skills.

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings.

Open questions. The practical training will be concluded with a report.

Module 3.7.2 Assessment, Testing, Supervision

rm 4.055. Coordinator: Jeroen van Merriënboer, Psychology, tel.: 3881953, Dr Tanslaan 10,

Objectives

- How can capacities which have been acquired through education be assessed?
 What forms of assessment are there and what are their advantages and disadvantages?
- How can information obtained from tests and quizzes be used to help learners overcome specific problems?

The tasks of the educational psychologist include the development of theory and practice with regard to the design of instruments for measuring study performance and the accompanying problem of assessment. This module will investigate the supervision will also be examined. Some children have learning difficulties or have suitability and career choice. Students will become acquainted with the most theme has to do with the role of the psychologist in the assessment of school computerized assessment of essay questions and research reports. A closely related of this is formed by the simulation stations used to test skills in medical education. in particular by means of simulations (both computerized and "live"). An example assessment" and computerized assessment of products produced by students. The Special attention will be devoted to two relatively recent themes: "authentic types of instruments which have been or are being developed for this purpose. various fields in which study performance must be determined and the different frequently used tests in this field. In this connection, the problem of student The second theme focuses on methods which can be used in connection with first has to do with attempts to assess criterion behaviour in a realistic environment, fallen behind in their studies. One of the important tasks of the educationa

psychologist is to work out plans to remedy such problems.

Essential reading

Collection of articles

Practical Training

Universiteitssingel 50, rm 5.108. Coordinator: Henk van Berkel, Educational Development & Research, tel.: 3881116,

Objectives:

- Students will analyze and report on raw test results.
- Students will design a series of stations for the assessment of careers advisors in training.
- Students will develop a thesaurus for the purpose of checking a essential reading review written by first-year psychology student
- Students will administer tests to primary school children.
- Students will prepare a supervision plan based on a diagnosis of learning

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings

Open questions. The practical training will be concluded with a report.

4.3 THE BIOLOGICAL PSYCHOLOGY DEGREE COURSE

are also determined by the integrity of the brain. orders in our functioning and in the manner with which we deal with limitations structure and function of the nervous system. Our cognitive skills depend on the phase of development or aging of the brain. For this reason, babies, toddlers, children, adolescents, young adults and old people all function differently. Dismanner in which we perceive, remember, speak and move is determined by the understood when biological factors are taken into consideration as well. Thus, the study of aspects of psychological and cognitive functioning which can be better a system which selects and processes stimuli from the outside world and subsequently Like the cognitive revolution, the biological revolution has been of decisive importance for the contemporary "persona" of psychology. Central to this apbiological psychology programme is based on this concept. It concentrates on the makes a conscious or unconscious choice from a range of action strategies. The proach is the concept of the human being as an "information processing system",

cognitive functioning, and the developmental psychology option, which utilizes the application of this knowledge to problems related to health, sickness and neuropsychology, which focuses on the study of brain-behaviour relationships and modules, the student may choose between the degree course option in psychology. The emphasis here will be on acquiring basic knowledge regarding the relationship between somatic processes and behaviour. Based on these introductory The programme begins with an introduction to specialized topics in biological

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knowledge about brain-behaviour relationships to obtain a better understanding of the development of children, young people and the elderly.

4.3.1 Basic Programme in Biological Psychology

The three introductory modules in biological psychology form a continuum, building on the basic knowledge acquired in the first two years. The first module, "Neurocognition", examines psychological processes on the border between normal and subnormal functioning and the role of somatic processes in this connection. The second module, "Headaches", will intensify the student's basic knowledge of disorders in brain-behaviour relationships. In this module, the medical terminology and knowledge of syndromes required for the two degree course options will be presented. The third module, "Brainstorms", will examine elementary behavioural and cognitive functions, psychophysiological processes and the development of the nervous system.

'I'o summarize: the three introductory modules will examine normal psychological functioning, functional disorders and brain disorders. At the end of these three modules, students will have acquired the basic information which will enable them to decide how to deepen or broaden their knowledge.

Core texts

The following books will be used as core texts in the three introductory biological psychology modules:

Posner, M.I. and Raichle, M.E. (1994). Images of Mind. Scientific American Library.

Oosterhuis, H. (1997). Klinische neurologie (13th revised edition). Utrecht/Antwerp: Bohn, Scheltema & IIolkema.

4.3.1.1 Overview of the Modules

Module 3.1.b Neurocognition

Coordinator: Jelle Jolles, Psychology, tel.: 3881912, Dr Tanslaan 10, rm 3.002.

Objectives

The aim of this module is to provide knowledge and insight regarding the elementary cognitive functions and skills and their interrelationships as well as the biological and psychosocial processes which determine neurocognitive functioning. An introduction to "cognitive neuroscience" will also be given.

Description

This module deals with the functioning of the brain, which will be discussed on the basis of recent insights in the "cognitive neurosciences". Brain imaging and the process approach in cognitive neuropsychology will be examined in this connection. Special emphasis will be placed on the role of attention processes. In addition, consideration will be given to the biological and environmental factors which determine optimum or subnormal functioning.

Finally, a meeting will be devoted to information processing in the elderly and in

children with attention disorders. The border area between neurocognitive functioning in "normal" people and in individuals with brain function disorders will also be discussed.

Essential reading

Posner, M.I. and Raichle, M.E. (1994). Images of Mind. Scientific American Library.

Collection of articles.

Practical Training

Coordinator: Heldwig van Bakel, Psychology, tel.: 3881956, Dr Tanslaan 10, rm 3.005.

Objectives: Experimental and applied neurocognitive research. Training practical skills in the execution of experimental research into "brain and cognition" and the analysis of research data on the "functional imaging" of the brain.

Teaching method

10 tutorial group meetings, 5 lectures

Assessment

Open questions

Module 3.2.b Headaches

Coordinator: Martin van Boxtel, Psychiatry and Neuropsychology, tel.: 3881028, Universiteitssingel 50, rm 1.108.

Objectives

The aim of this module is to provide knowledge and insight regarding cerebral diseases and brain function disorders which psychologists may be confronted with as well as to present a survey of the state of affairs in the health-care sector.

Description

The module focuses on behavioural, cognitive and perceptual disorders in patients with damaged nervous systems. The major brain diseases will be discussed, such as cerebrovascular disorders, Alzheimer's disease, Parkinson's disease, epilepsy, studied, along with auxiliary medical examinations such as blood testing. Attention will also be given to other causal brain mechanisms and modern brain imaging psychologists and attention will be discussed in so far as it is relevant to systems, such as ICD - 10 (International Classification of Diseases). A certain emphasis will be placed on disorders of the higher cognitive and cerebral functions, such as apraxia, agnosia, amnesia and related problems, and the therapics which are used to treat them. Pharmacology will be discussed in relation to the drugs used in hospital psychology and health-care organization will be presented.

Essential reading

· Oosterhuis, H. (1997). Klinische neurologie (13th revised edition). Utrecht/

Antwerp: Bohn, Schelterna & Holkema.

Collection of articles

Practical Training

Universiteitssingel 50, rm 1.108 Coordinator: Martin van Boxtel, Psychiatry and Neuropsychology, tel.: 3881028

Objectives:

- Students will gain experience in evaluating neuroanatomical brain scans measured Students will gain experience in executing clinical epidemiological research by means of brain imaging methods.

Teaching method

(orientation clinical epidemiology).

Assessment 12 tutorial group meetings, 6 lectures, 4 practical training meetings

Open questions

Module 3.3.b Brainstorms

Objectives Coordinator: Simon Ponten, Psychology, tel.: 3881939, Dr Tanslaan 10, rm 3.005

The module will provide in-depth knowledge regarding the relation between the elementary building blocks of the nervous system and behavioural/emotional and cognitive functioning. Special attention will be given to fundamental processes in the areas of genetics and biochemistry in relation to the subject of brain and

Description

the role of hormones and neurotransmitters will be discussed. Many aspects of be examined in relation to relevant brain locations and localization theories. development and aging of the brain. The various cognitive functions and skills will psychological and somatic functioning will be considered on the basis of the The different types of brain cells, the structure and biochemistry of the neuron and

of education and of enriched and impoverished environments. In the process, current theories such as the modern variant of the "body-mind problem" will be Biological environmental interaction will be considered in relation to the influence symptoms. On this basis, modern possibilities for measuring cerebral processes on the connection between biological and psychosocial processes as well as clinical during the performance of psychological tasks (brain imaging) will be discussed more in-depth knowledge of these basic aspects, the module will focus particularly psychology will receive special attention in this module. In addition to providing The fundamental genetic and biochemical processes which are of importance to

Essential reading

- To be announced

Practical Training

Coordinator: Harry Steinbusch, Psychiatry and Neuropsychology, tel.: 3881021, Universiteitssingel 50, rm 1.101a.

 $possibilities for measuring brain processes during {\it the performance of psychological}$ Objectives: To provide more extensive knowledge of neuroanatomy; insight into the relationship between brain structure and brain function; knowledge of modern

Teaching method

Assessment 12 tutorial group meetings, 6 lectures, 4 practical training meetings.

Open questions

4.3.2 Degree course option: Neuropsychology

Service (neuro)psychologists). regular or special education (school counselling services, institutions for the mentally handicapped, etc.), in health care (mental health care, general hospitals, higher education in this field (such as the training course for National Health provide students with the in-depth knowledge and practical skills needed to follow rehabilitation centres, nursing homes) and in policy functions. This option will Neuropsychologists are employed in many settings, in research (university research, laboratory research in the pharmaceutical and food industries, etc.), in relationship between body and behaviour (brain and behaviour in particular). The specialization in neuropsychology is relevant for students interested in the

approach. Module 3.7.3, "Activation and Arousal", focuses on the psychological wakefulness and attention will be central, in relation to physiological mechanisms processes related to vitality and general well-being and their biological basis. Sleep, cerebral organization of the (psycho)motor system, movement and action will be perceptions and mental representations and their neurobiological organization. Module 3.6.3, "Action", examines concept formation and its role in thinking, which are regulated by the brain stem, hormones and the immune system. understood when biological as well as psychosocial mechanisms are taken into account. The primary focus of this module will be on the relationship between easoning, solving problems and controlling one's own behaviour. In addition, the biological (genetic, ctc.) and psychosocial factors. Module 3.5.3, "Perception, Representation and the Brain", concentrates on the intrinsic relationships between orders", examines disorders in behaviour and perception which can best be aspects. The modules build on the elementary knowledge acquired in the first two years and in the three introductory modules. Module 3.4.3, "Behavioural Dis-The main theme of this option is psychological functioning and its biological

The following basic book will be used in the neuropsychology degree course option: - Kosslyn, S.M. (1996). Image and Brain. Cambridge MA: MIT Press (paperback).

Core texts

4.3.2.1 Overview of the Modules

Module 3.4.3 Behavioural Disorders

Coordinator: Harald Merckelbach, Psychology, tel.: 3881945, Dr Tanslaan 10, rm

Objectives

- Knowledge of cognitive dysfunctions in significant neuropsychiatric disorders.
 Knowledge of biological abnormalities related to these disorders.
- Knowledge of psychotherapeutic and pharmacological interventions in connection with these disorders.

Description

consideration. Other forms of treatment (including psychotherapy and cognitive and protective factors will be discussed. Psychopharmacology will be given intensive accompanying all these disorders will be inventoried. The principle of vulnerability symptoms, epilepsy and mood disorders. The cognitive and biological phenomena rehabilitation) will also be surveyed. both neurological and psychiatric aspects, such as schizophrenia, obsessive This module focuses on a number of frequently occurring disorders which have

Essential reading

Collection of articles

Practical Training

Universiteitssingel 50, rm 1.116. Coordinator: Eef Hogervorst, Psychiatry and Neuropsychology, tel.: 3881025

Objectives: The exact contents of the practical training have yet to be announced

Teaching method

12 tutorial group meetings, 4 lectures, 3 practical training meetings

Open questions

Module 3.5.3 Perception, Representation and the Brain

Objectives Coordinator: Leo Blomert, Psychology, tel.: 3881949, Dr Tanslaan 10, rm 4.011.

- Knowledge of:
- theories about intrinsic relationships between perceptions and mental representations;
- theories about the neurobiological organization of perceptual and representational
- neurocognitive experimental and measurement methods

as manifestations of non-verbal thought processes. ingredients of cognitive processes and play a central role in neurocognitive research manipulate as if they were actually present. These representations form essential representations of existent and nonexistent things which you can inspect and questions in detail. Thus, you are apparently capable of generating mental crashed into a wall at top speed. You will not find it difficult to answer these Imagine that someone asks you to describe your bicycle, or to describe it after it has

and representations make use of the same (cerebral) mechanisms to a significant insight into mental representations of images and sounds. extent. The study of auditory and visual perception processes thus also provides in depth. The latest theories on mental representations assume that perceptions In this module, the nature and function of mental representations will be investigated

both real and imaginary tasks); and 4) neurobiological studies, which provide degree of overlap between the cerebral areas which are active in the execution of scanning of small surfaces); 3) functional brain activity studies (there is a great insight into the neurochemistry and physiology of the brain circuits concerned. orders as well as illusions and hallucinations); 2) experimental behavioural studies (visual scanning of both real and imaginary large surfaces takes longer than (some perceptual disorders are accompanied by identical representational dis-These theories will be tested against evidence from 1) neuropsychological studies representations are based on analysis of visual perceptual phenomena in particular The theories to be examined regarding the generation and operation of mental

Essential reading

 Collection of articles - Kosslyn, S.M. (1996). Image and Brain. Cambridge MA: MIT Press (paperback).

Practical Training

Coordinators: Leo Blomert, Psychology, tel.: 3881949, Dr Tanslaan 10, rm 4.011 and Eric Postma, Information Science, tel.: 3883493, St. Jacobstraat 6, rm 1.002. protocol and preparing an experiment report. representation experiment. They will develop skills in formulating an experiment Objectives: Students will conduct and participate in a visual perception and

Teaching method

Assessment . 2 tutorial group meetings, 6 lectures, 4 practical training meetings,

Open questions.

Module 3.6.3 Action

Coordinator: Wijnand Raaijmakers, Psychology, tel.: 3881880, Dr Tanslaan 10, rm

Objectives

The aim of the module is to enable students to acquire in-depth insight regarding

the organization and regulation of action. In addition to the organization of the motor systems, the planning and directing of behaviour will be considered.

Description

This module focuses on the study of the motor systems, movement and action. How are representations of motor activity organized in the brain? Representations of space, visual-motor functions, the regulation of body posture and eye movements

will be considered. The cerebral organization of the (psycho-)motor system, movement and action The cerebral organization of the (psycho-)motor system, movement and action will be discussed from both the neuroscientific and the psychological point of view. Various aspects will be discussed in relation to movement and action in cases of "normal" development. Disorders in this system will also be examined, as will its neurochemical organization.

Essential reading

To be announced.

Practical Training

Coordinator: Eric Vuurman, Psychiatry and Neuropsychology, tel.: 3881046, Universiteitssingel 50, rm 1.106.

Objectives: Students will acquire experience in conducting research into the measurement of movement.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings.

Assessment

Open questions.

Module 3.7.3 Activation and Arousal

Coordinator: Wim Riedel, Psychiatry and Neuropsychology, tel.: 3881027, Universiteitssingel 50, rm 1.106.

Objectives

The aim of the module is to provide in-depth knowledge and insight regarding basic behavioural and cognitive processes which regulate wakefulness and their relationship to the structure and function of subcortical cerebral structures. The focus will be on arousal, activation and effort as well as the direction of somatic processes by the brain.

Description

In psychological essential reading, many concepts have been used in the description of the human wakefulness function, such as activation, arousal, effort, vigilance, alertness, sustained attention, vitality, etc. Module 3.7.3 will examine these concepts and focus on the physiological and hormonal regulation of wakefulness and how these processes are related to the control of somatic processes such as heartbeat and breathing. An important place in this module will be given to the concepts of arousal, activation and effort as underlying physiological regulatory systems of the

state of wakefulness needed for attention and information processing. The terms "psychophysiological reactivity" and "vitality" refer to individual differences in sensitivity to disorders in physiological regulatory systems. The focus here will be on the relation between cognition and energy, i.e. what people mean when they say: "I can't concentrate, it takes so much energy." (Over) tiredness and stress also play a role in this respect. The neurochemical aspects of activation and arousal will be discussed in relation to psychoactive drugs which affect wakefulness. Attention will also be given to pharmacology in general. How do drugs behave in the body? The module will deal partly with "normal" functioning, including "normal" tiredness, partly with pathological phenomena. In this context, the behavioural aspects of endocrinological science (psycho-endocrinology) and the science of somatic defence mechanisms (psycho-immunology) will be examined. The module will also discuss behavioural medicine and medical neuropsychology in the broad sense of the term (i.e., neuropsychological problems in connection with cardiovascular and other discases) as well as syndromes characterized by activation and arousal disorders (such as Attention Deficit with Hyperactivity Disorder, ADHD). Neuropsychological diagnosis and treatment and the effects of information will be discussed, with the emphasis on the relation between biological and psychological processes.

Essential reading

To be announced.

Practical Training

Coordinator: Fren Smulders, Psychology, tel.: 3881909, Dr Tanslaan 10, rm 3.012. Objectives: Students will acquire experience in measuring physiological indicators of activation and arousal, utilizing both central (cortical, EEG) and peripheral (cardiovascular skin conductivity) variables.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings

Assessment

Open questions.

4.3.3 Degree course option: Developmental Psychology

The specialization in developmental psychology is relevant for students interested in working with children, adolescents and the elderly. Developmental psychologists are employed in many settings: universities, school counselling services, medical daynurseries, health-care institutions for children and adolescents (state institutions, hospitals, specialized institutions) and care of the mentally handicapped. Geriatric psychologists find analogous employment in health care or policy functions. The developmental psychology course will provide students with the in-depth knowledge and practical skills needed to follow higher education in this field (such as the training course for National Health Service child psychologists or courses in adolescent and geriatric psychology). The course places greater emphasis on the relation between psychosocial factors (family, school, social environment, etc.) and biological factors (genetics, nutrition, diseases, etc.) than do "classical" program-

puberty, the role of hormones, and social factors will be given considerable successively with the following periods: "From Baby to Child" (module 3.4.4), "The Child" (module 3.5.4), "The Adolescent" (module 3.6.4) and "Aging" (module and pathological forms of aging. and very old age, and will focus on biological and psychosocial factors in successful starting at the time at which physical maturity is reached in the third decade of life. attention in this module. The fourth module will be devoted to the process of aging secondary school period and young adulthood. The major physical changes in approximately six years. Cognitive and emotional development will be related to guiding principle of which is formed by the phases of life. The four modules will deal This module will examine the phases of life from young adult via middle age to old in relationships outside the family. The third module deals generally with the entire which is marked not only by cognitive learning at school but also by drastic changes module on "The Child" focuses generally on the primary school period, a period the explosive cerebral development which takes place during this period. The 3.7.4). The first module covers psychological development from birth to The course is structured in such a way that the modules form a continuum, the

or limiting effects on psychological development will be extensively discussed. development. Treatment, special education and social factors which have stimulating coping processes and the many social and societal aspects of normal and disturbed As in the neuropsychology degree course option, students will examine psychological

4.3.3.1 Overview of the Modules

Module 3.4.4 From Baby to Child

Coordinator: Hans Stauder, Psychology, tel.: 3881940, Dr Tanslaan 10, rm 3.006

The aim of the module is to provide knowledge of early child development in the period from birth to approximately six years and to examine the biological, psychosocial and neurocognitive aspects of this development.

determine the limits to psychological development. After birth, (psychosocial and biological) environmental factors determine the extent to which the possibilities development and the influence of genetic, biological and psychosocial factors. Diseases, nutritional factors and disorders in cerebral development will be start of cognitive and communicative (language) development, while the social particularly prominent during the first six years. In addition, this phase sees the afforded by heredity are realized. The development of motor and sensory skills is emotional development. Hereditary factors and prenatal biological influences is laid for the individual's personality and his or her possible cognitive and interpersonal relationships. This module will examine these various aspects of interaction in the family is decisive for the subsequent development of stable Between birth and the time that the child learns to read and write at school, the basis considered. In addition, attention will be devoted to child-family/parent interaction

> will be devoted to this aspect. Finally, the most common baby and childhood diseases will be discussed relation to limitations in the lives of the mentally handicapped, special attention Due to the intensive relationship between biological and psychological processes in disorders, disordered motor and language development and educational problems. skills in primary school. Mild to severe forms of developmental disorders and child in relation to both normal and disturbed development. The important topic of "learning" will be considered in relation to cognitive learning and the teaching of psychopathology will be discussed, with attention given to autism and contact

Essential reading

To be announced

Practical Training

and young children and in conducting behavioural ethological research Objectives: Students will acquire experience in observing the behaviour of babies Coordinator: Hans Stauder, Psychology, tel.: 3881940, Dr Tanslaan 10, rm 3.006.

Teaching method

Assessment 12 tutorial group meetings, 6 lectures, 4 practical training meetings

Open questions.

3.5.4 The Child

Coordinator: Hedwig van Bakel, Psychology, tel.: 3881956, Dr Tanslaan 10, rm

Objectives

developmental psychology. specific disorders and problems and to approach them from various standpoints of and disorders during the primary school period. Students will learn to recognize development. Students will also acquire insight into the most common problems The aim of this module is to provide knowledge about the normal course of child development during the primary school period from approximately six to twelve years of age and the biological, psychological and social factors which influence this

Description

concentration problems, dyslexia and other problems during this period. There are primary school will determine which form of secondary education he or she will receive. Problems at home or illnesses which prevent children from performing school performance and consequent referral to a type of school which demands less disorders, which occur relatively often in boys aged 7 to 11, may lead to substandard intellectually than the child is capable of. Many children are subject to learning and sense that they may influence the entire course of their academic careers. Attention effectively for a certain period may thus have enormous, far-reaching effects, in the individual will eventually assume in society. After all, the child's performance at The primary school period has a very great influence on the place which the

orders, learning disorders and speech and language disorders will be discussed in delays and disorders which may occur in this respect. Reading and writing disand backgrounds of various relevant educational models and into aspects of and cultural factors. The module on "The Child" will devote attention to all these individual patterns of development, determined by diverse biological, psychosocial psychopathology in children, students will obtain insight into the most common this connection, as well as special education and education for the mentally Individual differences in intellectual development will be considered, as well as the educational psychology which are of significance to developmental psychology. "learning and education". Students will gain insight into the points of departure factors and the interaction between them. Considerable attention will be given to hyperactivity and attention disorders. Pharmacological therapies will be discussed in relation to the treatment of neuropsychiatric syndromes such as Tourette's syndrome, ADHD and dyslexia. anti-social development will be discussed, along with neuropsychological and problems and their diagnosis and treatment. Anxiety disorders, depression and determinants will be examined in depth. With respect to disorders and discussed as well. Here also, the relation between biological and psychosocial learning in relation to the latest theories in developmental psychology will thus be importance for psychosocial development. Social play, dealing with rules and social handicapped. Besides cognition, the primary school period is also of essential

Essential reading

To be announced.

Practical Training

Coordinator: Hedwig van Bakel, Psychology, tel.: 3881956, Dr Tanslaan 10, rm

Objectives: Students will acquire experience in conducting neurocognitive research in children, in particular research into intelligence and reading problems.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings.

Assessment

Open questions.

3.6.4 The Adolescent

Coordinator: Hans Stauder, Psychology, tel.: 3881940, Dr Tanslaan 10, rm 3.006.

Objectives

The aim of the module is to provide knowledge of adolescent development in the period from early puberty (approx. 12 years) to adulthood and the biological psychological and social factors which determine this development.

Description

The period which roughly corresponds to the secondary school years is characterized by major physical changes and changes in the place which the individual assumes

changes which occur in this connection. classification systems. Finally, we will consider aspects of development related to orders, suicidal tendencies, psychoses and abnormal personality development. problems, our discussion of juvenile psychopathology will also cover eating dismost commonly used hard and soft drugs. Besides dealing with relevant addiction the last stages of maturation in young adulthood and the major psychosocial mechanisms responsible will then be studied in relation to the pharmacology of the discussed in this connection. Biological aspects of drug addiction and the biological and drop-out problems. Juvenile delinquency and addiction problems will also be social factors, the module will examine the influence of group pressure, conformism Diagnosis and classification will be studied, partly on the basis of DSM and other identity crises, self-reflection and personality will be considered. With respect to differences will be discussed. With respect to the psychological level, identity and psychosocial processes which characterize this period. With respect to the biological intense social learning. This module will examine the biological, psychological and in society. The personality is formed in this connection. Hormonal changes lead to ding very much on the form of secondary education followed), it is also a time of fact that intellectual development continues to advance during this period (depenbegins to detach himself from the family and find his own place in life. Besides the level, somatic changes, sex hormones, sexual development and male/female puberty, to accelerated physical growth and major mental changes. The adolescent

Essential reading

To be announced.

Practical Training

Coordinator: Eric Vuurman, Psychiatry and Neuropsychology, tel.: 3881046. Universiteitssingel 50, rm 1.106.

Objectives: Students will acquire experience in conducting basic psychophysiological and psychopharmacological research in adolescents and young adults.

Teaching method

12 tutorial group meetings, 6 lectures, 4 practical training meetings.

Assessment

Open questions.

7 4 Aging: Cognition and

3.7.4 Aging: Cognition and Biopsychology

Coordinator: Peter Houx, Psychology, tol.: 3881902, Dr Tanslaan 10, rm 3.001. Objectives

The aim of the module is to provide knowledge and insight regarding the process of aging from young adulthood to very old age and the accompanying changes in biological, medical, neurocognitive and psychosocial variables.

Description

Changes in cognitive functioning can already be objectively established in the fourth decade of life. People in their thirties are somewhat slower than people in

respect. Finally, a brief survey of the various forms of care for old and very old treatments will be discussed. Diagnosis and classification will be considered in this orders, anxiety and depression in the elderly). Biological and psychological dementia, Alzheimer's disease, Parkinson's disease, age-related cognitive disconsidered: successful, normal and pathological aging. What is the role of health influences will also be discussed. Individual patterns in cognitive aging will be disorders? What is the direction of causality in this respect? Social and cultural senses? Which measurable cognitive dysfunction precedes memory problems and responsible for objective and subjective deterioration or is it the deterioration of the people will be presented. be studied, as well as neuropsychiatric and neurological syndromes (including problems in the phases of life? This will be different for people in their forties than changes with the phases of life. The module will cover the following phases: young will be on cognitive gerontology and the study of the connection between biological, psychological and social factors in aging. The relative contribution of these factors young people. The module intends to provide a survey of the psychological "units" which start to deteriorate from the 25th year of life, the time of life at which this Remarkably enough, however, growth does take place in various cognitive areas, sometimes even into the sixth or seventh decade. Some language functions, for for people in their sixties or eighties. Nervous exhaustion and psychopathology will Cognitive theories will also be examined. Is it primarily the reduced speed which is be reviewed, including genetics, free radical theory and cerebral reserve theory. adulthood, middle age, old age and very old age. Physiological aging theories will process starts and the speed with which it takes place. The emphasis in this respect example, are more effective in healthy, well-educated people in their sixties than in the performance of top athletes who have reached their peak in young adulthood their twenties and their information processing is less efficient. This can be seen in

Essential reading

To be announced.

Practical Training

Universiteitssingel 50, rm 1.102. Coordinator: Eef Hogervorst, Psychiatry and Neuropsychology, tel.: 3881025

the execution of basic neuroscientific research and in preparing a neuropsychological case history. They will obtain insight into Objectives: Students will acquire experience in conducting behavioural research

Teaching method

Assessment 12 tutorial group meetings, 6 lectures, 4 practical training meetings

Open questions.

4.4 Degree course option psychopathology

complied with all initial requirements attached in other universities to specialization the psychology course will have a ticket of admission for all postgraduate education courses in clinical psychology. A graduate who has followed this programme within Health Sciences. By completing this programme, psychology students will have Health Sciences (Geesteli)ke Gezondheidskunde or GGK) offered by the Faculty of Students may follow (parts of) the core curriculum and elective modules in Mental

follow the psychopathology specialization must take the following modules: "Mood Disorders", "Anxiety", "Sexuality" and "Psychodiagnosis". In the fourth year, students are free to take "Illusions and Delusions" and "Psychosomatic Disorders" or to select other elective modules. and "Psychosomatic Disorders", along with the accompany practical and skills training. Only with these six modules will students be in compliance with all admission requirements for postgraduate programmes. Psychology students who Six modules in the GGK programme are relevant for psychology students: "Mood Disorders", "Anxiety", "Sexuality", "Psychodiagnosis", "Illusions and Delusions"

General Core texts

- Bridgeman, B. (1988). The Biology and Behavior and Mind. New York: Wilcy. Davidson, C.G. and Neale, J.M. (1994). Abnormal Psychology (6th ed.). New York: Wiley.
- thologie: een inleiding. Assen: Van Gorcum. Jansen, A., Merckelbach, H. and Van Hout, M. (1992). Experimentele psychopa-

4.4.1 Overview of the Modules

Module 3.4.5 Mood Disorders

Universiteitssingel 50, rm 1.357. Coordinator: Susan Bögels, Differential and Experimental Psychology, tcl.: 3881609,

Objectives

This module deals with mood disorders (depression, mania).

Description

cognitive, pharmacological, etc.). Topics to be presented include the following: The theme will be approached from various perspectives (social psychological

- normal and abnormal mood fluctuations;
- epidemiology;
- diagnosis;
- biological, psychological and social explanatory models;

treatment options.

Relevant disciplines: social and biological psychiatry, cognitive psychology,

Essential reading

To be announced

Practical Training

3881125, Universiteitssingel 50, rm 5.142. Coordinator: Tessa van Mourik, Educational Development and Research, tel.

six three-hour meetings and a subsequent discussion. Skills will be evaluated by health problems. In addition, we will examine the manner in which diagnoses are formulated on the basis of interview and observation data. The training consists of information which will contribute to the formulation of a diagnosis. This training will cover the various phases of case-history interviews in connection with mental means of a simulated contact. Objectives: A case-history interview has a precisely defined goal: the collection of

Practical Training

3881603, Universiteitssingel 50, rm 1.344. Coordinator: Madelon Peters, Differential and Experimental Psychology, tel.:

Objectives: In this short practical training, students will conduct an experiment regarding the influence of mood on performance.

Teaching method

12 tutorial group meetings, 6 lectures, 7 practical training meetings

Open and/or closed questions plus a written practical training report.

3.6.5 Sexuality

Coordinator: Helga Nauta, Health Information, tel.: 3882397, P. Debyeplein 1, rm

Objectives

- Knowledge of the biological basis for both normal and deviant sexual behaviour
- behaviour. Knowledge of the psychological basis for both normal and deviant sexual
- Knowledge of the relational context of both normal and deviant sexual behaviour.
- Knowledge of the social context of both normal and deviant sexual behaviour, including legislation.
- Knowledge of the diagnostic criteria for sexual disorders.
- Knowledge of the various treatment options for sexual violence
- Knowledge of preventive strategies with respect to sexuality.
- Insight into one's own attitudes with respect to sexuality. Knowledge of research methods with respect to sexuality.

Description

attention will be devoted to themes which are directly connected to the professional addition to topics related to the biological bases of sexual behaviour, particular with which the behavioural scientist may be confronted in practice in particular. In practice of the behavioural scientist: (mental) health care, research and prevention. This module will deal with sexuality in general and with the sexological problems Case histories will be approached from different frames of reference (psychodynamic

systems theory, learning theory and feminist).

Essential reading

To be announced.

Practical Training

concluded with student presentations of case histories. a professional interview to delineate an individual's sexual history. Training structure: five three-hour meetings. In the last meeting, the training will be will also be introduced to the process of taking sexual case histories, i.e. conducting and investigate opinions, emotions and behaviour related to sexuality. Students articles, statements and simulations. Attention will be given to learning to designate training will approach this subject matter with the help of role playing, magazine behaviour and emotions in relation to the subject matter of sexuality. The practical acquire such a perspective, it is essential to examine one's own attitudes, norms, a certain perspective is required in order to approach this subject professionally, 'I'o there are so many different ideas, norms, standpoints, perceptions of sexuality that chance of being confronted with sexuality in the people you encounter. However, everyone has to deal with sexuality. As a social scientist, too, you stand a good Objectives: Discussing sexuality. The training begins with the assumption that

Teaching method

12 lectures, 5 practical training meetings

Assessment

To be announced

3.7.5 Psychodiagnostics

Psychology, tel.: 3881488, Universiteitssingel 50, rm 1.324 Coordinator: Cor Meesters, Medical Psychology/Differential and Experimental

Objectives

knowledge of psychodiagnostics The aim of this module is to provide students with more in-depth theoretical

Description

psychometric qualities of a personality questionnaire. Relevant scientific fields include psychometrics, psychological theories of personality, neuropsychology respect of intelligence, personality and functions on the basis of case studies. will be required to execute practical assignments involving the study of the phases of human life (childhood and youth, adulthood and old age). All students test theory, the module will move on to examine psychodiagnostic research in Psychodiagnostic research will also be illustrated with examples from the different Beginning with the history and present position of psychodiagnostics, ethics and

and developmental psychology.

The importance of this module partly lies in the fact that it is a required condition for eligibility for the so-called Aantekening testdiagnostic, a certificate in test diagnostics verifying that the student has demonstrated both theoretical and

the graduation diploma practical competence in psychodiagnostics. The certificate is presented along with

Essential reading

To be announced

Teaching method

12 tutorial group meetings

Assessment

To be announced

Module 4.1.5 Illusions and Delusions

3881605, Universiteitssingel 50, rm 1.353. Coordinator: Reiner Kreutzkamp, Differential and Experimental Psychology, tel.:

This module focuses on the "severe" psychiatric abnormalities

Themes to be examined include:

- psychotic symptomatology;
- cognitive defects and schizophrenia; psychosis and biological substratum
- psychosis and the individual;
- psychosis, family and social network.

tunctioning, health law. Relevant disciplines: biological and social psychiatry, psychological theories of

Essential reading

To be announced.

Practical Training

Universiteitssingel 50, rm 5.127. Coordinator: Geke Blok, Educational Development and Research, tel.: 3881135

diagnoses for clients suffering from psychotic disorders. The training consists of six objective is to teach students to prepare case histories and formulate (differential) II concentrates on disorders in thought and perception (psychotic problems). The orders. While the first course focuses on so-called "neurotic" disorders, Anamnesis Objectives: In continuation of Anamnesis I, Anamnesis II provides advanced training in the conduct of case-history interviews and diagnosis of mental disthree-hour meetings

Teaching method

12 tutorial group meetings, 6 lectures, 6 practical training meetings

Assessmen:

Open questions.

3.5.5. Fear

Universiteitssingel 50, rm 1.359 Coordinator: Merel Kindt, Differential and Experimental Psychology, tel. 3881610,

Objectives

appearances, development and therapy of (pathological) fear. Among others, the follwoing themes will be highlighted: The aim of this block is to acquire knowledge and insight into the causes,

- prevalence/incidence and pathology
- experimental models;
- different forms of therapy;
- relation with sexuality.

Essential reading

To be announced

Practical training

Universiteitssingel 50, rm 5.127. Coordinator: Geke Blok, Educational Development and Reserach, tel. 3881135.

Psychology, tel. 3881596, Universiteitssingel 50, rm 1.349 Coordinator: Merel Kindt, Differential and Experimental Psychology, tel. 3881610 Uniersiteitssingel 50, rm 1.359 and Peter de Jong, Differential and Experimental

Teaching method

Assessmen 12 tutorial group meetings, 6 lectures and 8 practical training meetings

Open and/or closed questions

Module 4.2.5 Psychosomatic Disorders

Coordinator: Madelon Peters, Differential and Experimental Psychology, tel.: 3881603, Universiteitssingel 50, rm 1.351.

)bjectives

In this module, the concept of "psychosomatic diseases" will be discussed Description

given to the treatment and prevention of psychosomatic complaints. social and societal. In addition, various theories on the relationship between mechanisms and disease will also be discussed. Finally, ample attention will be processes which may play a mediating role in the relationship between psychological psychological mechanisms and disease symptoms will be reviewed. The physiologica psychosomatic complaints will be analyzed on four levels: biological, psychological, Extensive attention will be devoted to the cybernetic approach. In the process

Essential reading

To be announced

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Practical Training

Coordinator: Geke Blok, Educational Development and Research, tel.: 3881135 Universiteitssingel 50, rm 5.127.

Objectives: In this training, the ideas of systems theory and the systematic therapeutic treatment which is based on these theoretical assumptions will be central. Both diagnosis and treatment will be examined. The training will consist of six three-hour meetings, a contact simulation and subsequent discussion.

Teaching method

12 tutorial group meetings, 6 lectures, 8 practical training meetings.

Assessment

Open and/or closed questions.

4.5 PARALLEL PROGRAM THIRD YEAR

A common parallel program in the third year such as statistics and computer skills will only be provided during the first three modules (the introductory cognitive and biological psychology modules). In addition, students will be expected to write a third-year thesis as part of the third-year writing skills course.

4.5.1 Computer Skills III

Coordinator: Robert van Doorn, Psychology, tel.: 3881926, Dr Tanslaan 10, rm 4.066a.

Objectives

The skills acquired in Pascal programming will now be applied to learning to program in Delphi.

Description

Delphi is a visual programming language which has replaced Pascal. A teaching method will be developed within which students from both specializations can work together on a project requiring knowledge of cognitive and biological psychology as well as specific knowledge of Delphi. For example, a program which simulates a simple neural network could be developed. In such a project, students of cognitive psychology could concentrate on designing the interface while students of biological psychology could add to and apply their knowledge of neural circuits. Both groups would of course be involved in the specification and implementation of the software.

Essential reading

- Stefanski.

Teaching method

Tutorial group meetings (number to be announced).

Assessment

Working assignments.

4.5.2 Statistics III

Coordinator: Martijn Berger, Methodology and Statistics, tel.: 3882258 or 3882395, P. Debyeplein 1, rm 2.063.

Objectives

Instruction in statistics will primarily be devoted to understanding the advanced statistical techniques used in psychological research. Students will become familiar with these techniques and learn how and when they are to be used. Wherever possible, the subject matter will be related to the statistics instruction provided in the first and second years.

Description

The subject matter consists of three topics, First of all, factor-analytic techniques, including LISREL, will be discussed. This will be followed by the analysis of frequency tables with causal inferences, including simple logit models. Finally, repeated measurement variance analysis will be discussed, in continuation of the material presented in the second year.

Essential reading

- Kleinbaum, D.G., Kupper, L.L. and Mullcr, K.E. (1988). Applied Regression Analysis and Other Multivariable Methods. Belmont: Duxbury Press.
- Collection of articles.

Teaching method

The course is structured in the form of 6 lectures with accompanying seminars and 3 computer practice sessions.

Assessment

Closed and/or open questions.

4.5.3 Writing Skills III

Coordinator: Peter Vermeer, Psychology, tel.: 3881895, Dr Tanslaan 10, rm 4.005. Third-Year Essay

All psychology students are required to write at least one third-year essay before graduation. Approval for traineeship studies will only be granted after the third-year thesis has been submitted and assessed as sufficient. Students who wish to pursue their study or research traineeships abroad must write their third-year essay in English.

Selection of Topics

Portfolios containing topics which students may select for third-year projects are available from Anouk Cuijpers, Psychology, tcl.: 3881886, Dr Tanslaan 10, rm 4.006 and at the learning resources centre. For each topic, the instructor who will

supervise and evaluate the student's work is indicated. Students wishing to write papers on topics not found in the portfolio must find supervisors/assessors themselves.

Third-Year Essay Supervision

The instructor who evaluates the third-year essay will also supervise its preparation. Requirements

Essays are to be submitted in triplicate along with an annotation form to an office staff member. They must be submitted personally. On the title page, in addition to the title, must be indicated:

- the name of the author;
- the examination number;
- the name of the content supervisor.

All essays are to be prepared individually.

The thesis must be at least fifteen pages long, excluding the title page, sources, tables, appendices, etc., and no longer than twenty-five pages. Exceeding the lower limit is not permitted. Exceeding the upper limit must be justified with cogent reasons in the foreword. The length will be taken into account in evaluating the formal aspects of the paper.

Essays are to be typed on one side of A4 sheets, with one-and-a-half line spacing and approximately three-cm margins on all sides.

List of Assessment Aspects

The essays will be evaluated on form and content aspects (problem formulation, argumentation, professional aspects and formal aspects). The aspects are assessed separately and all four aspects carry the same weight in the evaluation. The separate scores on the aspects are added together and averaged to produce a total score. This final score must not be less than sufficient. For further details on assessment aspects, please refer to the "writing skills manual".

Submission Procedure

Each student is to submit three copies of the essay to Anouk Cuijpers, Psychology, tel.: 3881886, Dr Tanslaan 10, rm 4.006, who will send them with an assessment form to the supervisor. Within twenty working days, the supervisor will return the essay with assessment to the office. One copy, possibly with commentary, will be returned to the student. Another copy will be sent to an independent instructor for evaluation.

5 The Fourth Year

5.1 GENERAL

In the final year of the psychology programme, students follow elective courses, carry out research traineeships and write traineeship reports: the master thesis. In the first three module terms of the year, elective courses will be offered by the Faculty of Psychology. It is always possible to follow elective courses offered by other faculties within the Maastricht University or elsewhere, provided that the examination board has granted permission in this respect.

5.2 ELECTIVE COURSES

The third year of the programme is characterized by the differentiation of the curriculum and by specialized instruction in the various fields. In the first half of the fourth year, elective courses are provided which enable students to both broaden and further specialize their programmes. To accomplish these twin goals, a wide range of electives is required. In order to achieve this, the classical PBL approach has been dropped. Moreover, in their final year students follow increasingly individual paths. This process begins during the preparations for the research traineeship and may result in an ambition to work in a very specific field. The organisation described below is very well adapted to the individualization of the learning process which characterizes the fourth year.

Organisation of the electives

The wide range of elective topics offered has been arranged into clusters. Seven clusters have been distinguished, representing on the one hand work areas, on the other hand important scientific themes.

For each topic, teachers will provide a "course booklet" containing a short description of the topic, a list of the literature to be studied and the assesment (for example, essay, oral exam, assignment, etc.). The booklet may also indicate any practical training involved, the manner in which the computer room is to be used, etc.

These courses last six weeks and may be followed by one or more students. Given the very wide range of subjects in the overall programme, however, it can be expected that no more than a few students will pick any particular topic.

Most likely, approximately twenty et dente will pick any particular topic.

Most likely, approximately twenty students will register for topics within any given cluster. It is not enough to leave it at that, however. After all, it is well known that

of contact hours to be organized for each course will be fixed in advance. Based on within a cluster. Some of these activities will be mandatory. The minimum number reasons, joint activities will be organized for all students who have chosen topics complete the course on schedule are great under such circumstances. For these between students and instructors, and that the risks of dropping out or failing to these conditions, joint activities such as the following can be considered: the learning process does not proceed effectively without interpersonal contact

- A weekly seminar in which students report on their own subjects.
- 2. Reading groups, in which all students read an important work within the cluster.
- A weekly class (formal lectures are most likely not suitable unless organized for a wide audience).
- 4. Joint practical training.
- Instruction in relevant specialized methods and techniques/statistics.

instruction portfolio which will be available in January, 1998. development of the accompanying material will be presented in an elective At the beginning of the fourth year, students are to select three units of elective below. There are some ten subjects per cluster. Details of course contents and the instruction. A survey of the clusters with accompanying subjects will be found

A. Work and Organization

- b. Selection and Assessment
- 2. Stress
- Human Resource Management
- 4. Organizations
- Environmental Psychology and Ecological Ergonomics
- Implementation of Ergonomic Advice
- Man and computer
- B. Education and Learning

- . Education and Instruction Technology
- Tutoring Systems
 Clinical Educational Psychology
- 4. Creativity
- 5, Curriculum Development

- Group Processes
- Development of Expertise
 Special Education
- C. Mental Health
- Topics:
- .. Sexology
- 2. Psychodiagnostics
- Psychotherapy: Evaluation Studies/M&T

80

- 4. Eating Disorders
- Personality Disorders
- Mental Health Policy
- Educational Theory
- Information Processing and Psychopathology
- D. Clinical Neuroscience

Lopics:

- . Aging
- Developmental Disorders
- Diagnosis and Treatment
- 4. Addiction
- Behavioural Toxicology
- Rehabilitation
- Mental Handicaps Neuropsychiatric Diseases
- Psychopharmacology
- 10. Hospital Psychology
- E. Cognitive Neuroscience

Topics:

- Psychophysics
- Sleep and Dream
- Gender Differences
- Perception
- Language and Brain/Neurolinguistics
- Cerebral Laterality
- Memory and Memory Disorders
- Fundamental Problems in Neuroscience
- 9. The Body-Mind Problem in the Neurosciences 10. Neural Networks

F. Development

- i. Language Development
- Aging
- Educational Problems/Orthopedagogy
- 4. Gender
- 5. Learning Disorders 6. Highly Gifted Individuals
- 7. Mental Handicaps (see also D)
 8. Developmental Disorders (see also D)
- Intelligence and Intelligence Tests
- Career Choice and Career Choice Tests
- G. Man and Machine

Artificial Intelligence

- 3. Software Engineering

Gerontotechnology

- 4. Pattern Recognition (Computer Vision and Voice Recognition)
- Knowledge Technology
- Physical Ergonomics
- 7. Computer Linguistics
- Systems Theory and Cybernetics
- 9. Ártificial Life
- 10. Advanced Programming

.3 Research traineeship and final thesis

In the fourth year, 24 weeks are reserved for the traineeship and master thesis. To conclude their academic programme, students are required to independently set up, implement and evaluate a research project and report on it in their master thesis. The selected research traineeship will be closely related to the selected degree course and specialization. A reasonable number of students will be able to complete their traineeships abroad.

Depending on their specific curriculum path, students can follow traineeships in education (school counselling services, school medical services or specialized institutes) and the business community (pharmaceutical industry, industrial research laboratories, Netherlands Institute of Applied Scientific Research, etc.). Students specializing in health-care aspects may find traineeships in regional institutes for mental welfare (RIAGG), psychiatric and general hospitals, rehabilitation centres and nursing homes. Traineeships are also possible in centres for alcohol and drug abuse, medical daycare centres and related institutions.

Students in the psychopathology track and in neuropsychology preparing for work in the field of health care should gain experience in a relevant health-care setting. Psychology students who have completed these modules may be asked to focus their trainceships on clinical aspects and carry them out in clinical settings. The possible choices with respect to trainceships and final theses indicate the wide

range of possible occupational areas. In January 1998, a traineeship portfolio will be available in which students can find possible traineeship opportunities. In this portfolio, a short description of the traineeship will be provided, including the type of traineeship, the sort of research which can be carried out, the name of the institution concerned, the names of the contact person from the Faculty of Psychology and the contact person in the institution. Both Dutch and foreign traineeships will be available. To help students make well-informed choices, a contact person has been appointed for each of the various tracks. Even before the traineeship portfolio is available, students may approach these contact persons with questions about trainceships. Practical information on foreign traineeships may be obtained from Ina Engelen, international relations officer, tel.: 3881920, Dr Tanslaan 10, rm 4.017.

Contact Persons

Cognitive Psychology

Jettie Hoonhout, tel.: 3881954, Dr Tanslaan 10, rm 4.061, consultation every Friday from 1-2 pm or following telephonic appointment.

Biological Psychology

Simon Ponten, tel.: 3881939, Dr Tanslaan 10, rm 3.005, consultation every Wednesday from 11.30 to 12.30 am.

Psychopathology

Harald Merckelbach, tel.: 3881945, Dr Tanslaan 10, rm 3.018, consultation every Wednesday from 11.00 to 12.00 am.