

Clinical Psychophysiology

Brief description of course content (according to the programme's verification report)

Psychophysiology in the context of neuroscience. Techniques to measure the skin's electrical, cardiovascular, muscular and brain activity and their interpretation in the context of Clinical Psychophysiology. Psychophysiological markers. Psychophysiology and schizophrenia. The psychophysiology of anxiety. The psychophysiology of stress and behavioural medicine.

Learning outcomes

- Diagnostic implications of the psychophysiological variables.
- Contributions of Psychophysiology to the explanation and treatment of psychological disorders.
- Development of critical analysis skills for psychophysiological studies at the basic and applied level.
- Development of a positive attitude towards psychophysiological research aimed at advancing awareness of psychological disorders and the improvement of current assessment techniques and treatment

Planned learning activities

Theory Syllabus

THEORETICAL SYLLABUS:

Topic 1. Clinical Psychophysiology in the context of neuroscience.

Topic 2. Classification of the psychophysiological techniques according to the organisation of the nervous system.

Topic 3. The psychophysiological record.

Topic 4. The skin's electric activity.

Topic 5. Cardiovascular activity.

Topic 6. Muscular activity.

Topic 7. Brain activity.

Topic 8. Psychophysiological markers.

Topic 9. Psychophysiology and schizophrenia.

Topic 10. Affective disorders.

Topic 11. Psychopathy.

Topic 12. The psychophysiology of anxiety.

Topic 13. Stress and psychophysiological disorders.

Topic 14. Deception detection.

Practical Syllabus

PRACTICAL SYLLABUS:

Laboratory experiments

Practical exercise 1a. General recording procedure.

Practical exercise 1b. Recording the skin's electric activity.

Practical exercise 2a. Recording the electrocardiogram, pulse and cardiometer.

Practical exercise 2b. Recording the direct and integrated electromyogram.

Practical exercise 2c. *Biofeedback and neurofeedback*