



ЦЕНТЪР ЗА ОБУЧЕНИЕ – БАН

1000 София
ул. „Сердика“ № 4
<http://edu.bas.bg>

email: tdc-phd@cu.bas.bg
тел.: 02 987 31 67
02 979 52 60

Basic Information:

Course Title: .NEURAL IMPLANTS, NON-INVASIVE BCI's AND NEUROINFORMATICS

Lecturer:Assoc. Prof. Dimiter Prodanov.....

Phone:

Email: dimiter.prodanov@iict.bas.bg.....

Total Teaching Hours:30.....

Annotation (up to 150 words)

The course offers a comprehensive 30-hour educational program focused on cutting-edge advances in neurotechnology, including neuro-implants, brain-computer interfaces (BCI's) and neuroinformatics. The goal is to provide an understanding of the latest advances and research methodologies in the field of neurotechnology, providing participants with in-depth knowledge and practical skills in the field of non-invasive BCIs and neuroinformatics. The course will encourage interdisciplinary collaboration and exchange of ideas between participants and leading researchers from international institutions, and will also provide knowledge about the ethical aspects of BCIs. Teaching methods include lectures, practical workshops, discussions, joint group projects and discussions of real-life cases presented by leading experts. Participants are expected to communicate and interact with the lecturers during the training, which will enable them to gain in-depth knowledge and skills so that they can contribute to cutting-edge research in the field of neurotechnology. The course will provide participants with the opportunity to become part of a network of professionals from academia, industry and healthcare. Key outcomes will include enhanced knowledge and technical skills in neurotechnology applications, expanded professional networks and insights into translational aspects of research. It will also serve as a platform for presenting individual research through poster sessions and group projects, culminating in feedback from peers and experts.

Course content (brief description by topics or modules)

1. Introduction To Neurotechnology And Neural Implants
2. Advances In Non-Invasive BCIs
3. Neuroinformatics And Data Analysis
4. Integrative Approaches And Emerging Trends
5. Project Presentations And Future Directions

Teaching and assessment methods

.....posters, presentations, group discussions.....

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Competencies acquired as a result of training (3–5 points)



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.....presentation skills.....

.....IP and innovation.....

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Literature:

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Additional information (optional) (e.g., special requirements, laboratory equipment, prior knowledge)

.....bring your laptop.....

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