

Course Unit	Neurobiology of emotion		Field of study	Medicine	
	Postgraduate Course in Emotional Education in Health		School	School of Health	
Academic Year	2019/2020	Year of study	1	Level	ECTS credits 5.0
Type	Semestral	Semester	2	Code	5034-680-1204-00-19
Workload (hours)	135	Contact hours	T -	TP 25	PL -
			TC -	S -	E -
			OT 50	O 30	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Maria Augusta Romão da Veiga Branco

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Know the Neurobiology of Emotion.
2. Recognize the importance of functional structures related Affective Innate programming.
3. Know the Type and Characteristics of Emotion: Expression, Polarity, intensity.
4. Know the Roles and Effects of Emotion on Cognitive Processes in Motivation and Behaviors, in contexts of daily life.

Prerequisites

Before the course unit the learner is expected to be able to:
not applicable

Course contents

The Emotional Brain Relationship: in Anatomy.TY - 3D Atlas de Anatomia e Fisiologia, Programa IPB, <http://portal3.ipb.pt/index.php/pt/bibliotecas/servicos-de-documentacao-e-bibliotecas>
- Prefrontal Lob/ Amygdala / Limbic System, Hippocampus and brainstem nuclei.
- Affective Innate programming - Primary Emotions Types of Emotions - Primary, Secondary, Social Emotion - Features: Expression, Polarity, intensity

Course contents (extended version)

1. The Emotional Brain
2. Relationship Prefrontallob / Amygdala / limbic System, Hippocampus
3. Affective Innate programming - Primary Emotions
4. Types of Emotions - Primary, Secondary, Social emotions
5. Emotion - Features: Expression, Polarity, intensity . . . multidiversidade in human
 - Functions and Effects in Cognition, Motivation and Behavior
 - Functions and Effects in learning and in short, medium and long term memories
 - Neural networks and mind maps and your change by emotion

Recommended reading

1. Gilar-Corbil, et al (2018). Emotional intelligence training intervention among trainee teachers: Psic: Reflexão e Crítica, 31, 33. Epub January 17, 2019. <https://doi.org/10.1186/s41155-018-0112-1>
2. Damásio, A. (2004). O Sentimento de Si. O Corpo, a Emoção e a Neurobiologia da Consciência. Mem Martins. Europa-América.
3. Galli G. , Griffiths V. ; Otten L. (2014). Emotion regulation modulates anticipatory brain activity that predicts emotional memory encoding in women. SCAN (2014) 9, 378-384. doi: 10. 1093/scan/nss145
4. M ; Rognoni, E ; Cafiero, R ; et al. (2012). Distinct pathways of neural coupling for diferente basic emotions Neuroimage, Vol. 59(2), pp. 1804-1817, DOI: 10. 1016/j. neuroimage
5. Valente, Veiga-Branco, A, et al.(2020).The Relationship between Emotional Intelligence Ability and Teacher Efficacy. Univ Journal of Educational Research V8(3),p916-923.DOI:10.13189/ujer.2020.080324

Teaching and learning methods

Videoconference classes - active methodology through interactive and dynamic images: Anatomy.TY - 3D Atlas de Anatomia e Fisiologia, Programa IPB, <http://portal3.ipb.pt/index.php/pt/bibliotecas/servicos-de-documentacao-e-bibliotecas>
FLIPPED CLASSROOM
- Discussion Dynamics based on Images thematic projections
- Schemes (advanced organizers) reproduced by the students.

Assessment methods

1. Evaluation Exam - (Regular, Student Worker) (Final)
 - Final Written Exam - 100%
2. Evaluation Exam - (Student Worker) (Final, Supplementary, Special)
 - Development Topics - 100%

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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26-04-2020	26-04-2020	26-04-2020	26-04-2020