



## **COURSE DETAILS**

### **“INTEGRATED COURSE OF NEUROLOGY AND PSYCHIATRY”**

**SSD MED/26, MED/25, MED/37, MED/27, M-PSI/08**

DEGREE PROGRAMME: MEDICINE AND SURGERY (P11)

COORDINATOR: ANDREA DE BARTOLOMEIS

ACADEMIC YEAR 2024-2025

### **GENERAL INFORMATION – TEACHER REFERENCES**

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Cavallo Luigi Maria	Full Professor	Neurosurgery	2582	Wednesday. 12-13	<a href="mailto:lcavallo@unina.it">lcavallo@unina.it</a>
Solari Domenico	Associate Professor	Neurosurgery	2490	Please write an email	<a href="mailto:domenico.solari@unina.it">domenico.solari@unina.it</a>
De Bartolomeis Andrea	Full Professor	Psychiatry	3673	Thursday. 13-14 or write an email	<a href="mailto:adebart@unina.it">adebart@unina.it</a>
Iasevoli Felice	Associate Professor	Psychiatry	2647	Thursday. 12-13	<a href="mailto:felice.iasevoli@unina.it">felice.iasevoli@unina.it</a>
Vitelli Roberto	Associate Professor	Clinical Psychology	2484	Friday. 11-12	<a href="mailto:roberto.vitelli@unina.it">roberto.vitelli@unina.it</a>
Briganti Francesco	Full Professor	Neuroradiology	4251	Tuesday. 12-13	<a href="mailto:frabriga@unina.it">frabriga@unina.it</a>
Tedeschi Enrico	Associate Professor	Neuroradiology	4646	Friday. 11-12	<a href="mailto:enrico.tedeschi@unina.it">enrico.tedeschi@unina.it</a>

## GENERAL INFORMATION ABOUT THE COURSE

TEACHING LANGUAGE: ENGLISH

CHANNEL (IF APPLICABLE): N/A

YEAR OF THE DEGREE PROGRAMME: 5

SEMESTER: II

CFU:12

## REQUIRED PRELIMINARY COURSES

None.

## PREREQUISITES

*Basic knowledge of CNS and PNS anatomy and physiology, theory of the mind, main neurochemistry transmitters systems, the major categories of psychotropic drugs and their mechanism of action. These knowledges should be a primer for the neurobiological underpinnings of behavioral and neurological disorders.*

## LEARNING GOALS

*The course aims at providing neurobiological, pathophysiological, diagnostic and therapeutic insights with the ultimate goal to enable students to autonomously assess and manage neurological, neurosurgical, psychological and psychiatric conditions, focusing on practical skills for critical thinking and sound judgements in different clinical scenarios. It also seeks to grant students theoretical and practical skills to handle both emergency and elective clinical conditions.*

*Furthermore, the course focuses on communications skills. It aims to provide students with skills to convey and describe the fundamental neurological, neurosurgical and psychiatric concepts with correct and precise technical and scientific language skills. The student is required to be able to keep up to date with the scientific literature by autonomously inquire scientific texts and articles related to neurology, neurosurgery and psychiatry and must acquire the ability to follow specialized conferences, meetings and seminars.*

*Ultimately, it purposes to provide theoretical and practical skill to perform adequate differential diagnoses, discriminating primary psychiatric disorders from conditions that arise as secondary to other clinical factors.*

## EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

*The student should demonstrate appropriate knowledge of epidemiology, pathogenesis, diagnosis, differential diagnosis, clinical presentation, therapy and prevention of the major neurological and psychiatric disorders. He/she should show skills to manage clinical problems. The training course aims to provide students with the basic knowledges and methodological tools necessary to analyze and deal with neurological and psychiatric disorders*

### Knowledge and understanding

*The expected learning outcome is on scientific principles underlying modern approach to neurology, psychiatry and psychological theory and practice, The acquisition of above knowledge should be applied to clinical situations and attitudes necessary to identify and respond appropriately to emergency and elective neurological, neurosurgical disorders psychological distress as well as primary or secondary psychiatric disorders. The student is required to show adequate semeiotic skills for proper neurological physical examinations and mental state examinations. Additionally, he/she must show proficiency in elaborating discussions pertaining to the neurobiology, workup, diagnosis, and management of main neurological, neurosurgical and psychiatric conditions.*

### Applying knowledge and understanding

*Adequate practical clinical skills and methodological understanding are expected at the end of the training program. The student is required to recognize basic clinical cases and to elaborate an adequate clinical description, providing basic information for workup and management. The student is required to employ correct clinical terminology and to be able to adequately communicate clinical information pertaining to neurology, neurosurgery and psychiatry also to non-expert individuals (e.g., patients).*

## COURSE CONTENT/SYLLABUS

### Neurology

–	Aphasia, agnosia apraxia
Neurological symptoms in general medicine	

Cerebral vascular disorders
Spine tumors
Head and spine trauma
Peripheral nervous system disorders (II)
Amyotrophic Lateral Sclerosis (ALS)
Vegetative system disorders (II)
Encephalitis
Endocranial Hypertension
Hydrocephalus

## *Psychiatry*

The role of Psychiatry in general medicine. Epidemiology of Psychiatric disorders. The organization of Mental Community Health system in Italy. Omics and behavior disorders research.
Disorders of attention, thoughts, affective states, and emotion
Schizophrenia Spectrum disorders
Schizophrenia Spectrum disorders
The issue of the Unconscious: Psychoanalysis, Phenomenology and Cognitive Science;
Major Depression and Bipolar Disorders
Anxiety disorders
Substance abuse and dual diagnosis
Obsessive compulsive and related Disorders
Translational Medicine and Precision Medicine in Psychiatry.
Biological- and non-pharmacological treatments of Psychiatry disorders
Psychotherapy
Neuropsychiatric disorders

Week	Day; Time	Lesson	Professor
1° 3-7 March 2025	Tuesday 4 March 13.00-14.00	The role of Psychiatry in general medicine. Epidemiology of Psychiatric disorders. The organization of Mental Community Health system in Italy. The “tech” side of psychiatry: Omics and other innovative approach in behavior disorders research.	de Bartolomeis
	Tuesday 4 March 14.00-15.00	Introduction to Psychiatry interview and clinical evaluation included Mini Mental State Examination. Psychiatry consultation in General Hospital	de Bartolomeis
	Tuesday 4 March 15.00-16.00	The disorders of attention, thoughts, affective states, and emotion	Iasevoli
	Tuesday 4 March 16.00-17.00	DSM-5 and ICD -9, toward ICD -11	Iasevoli
Cont 1° 3-7 March 2025	Wednesday 5 March 13.00-14.00	Anatomy and Physiology of Central Nervous System	Iodice
	Wednesday 5 March - 14.00-15.00	Anatomy and Physiology of Peripheral Nervous System	Iodice
	Wednesday 5 March - 15.00-16.00	Aphasia, agnosia apraxia (I)	Salvatore
	Wednesday 5 March 16.00-17.00	Aphasia agnosia apraxia (II)	Salvatore
2° 10-14 March 2025	Tuesday 11 March 13.00-14.00	Delirium. Psychiatric disorders in Internal Medicine	Iasevoli
	Tuesday 11 March 14.00-15.00	Neurodevelopmental disorders in Psychiatry	Iasevoli
	Tuesday 11 March 15.00-16.00	Beyond the psycho-bio –social theory of psychiatric disorders: the role of epigenetics	de Bartolomeis
	Tuesday 11 March 16.00-17.00	A primer for clinical pharmacology and comprehensive treatment of Psychiatric disorders	de Bartolomeis
Cont 2° 10-14 March 2025	Wednesday 12 March 13.00-14.00	Neurological symptoms in general medicine disorders	Saccà
	Wednesday 12 March 14.00-15.00	Neurological symptoms in general medicine disorders	Saccà
	Wednesday 12 March 15.00-16.00	Hemorrhagic vascular disorders	Solari
	Wednesday 12 March 16.00-17.00	Imaging of Hemorrhagic vascular disorders	Briganti
3° 17-21 March 2025	Tuesday 18 March 13.00-14.00	Schizophrenia Spectrum disorders	de Bartolomeis
	Tuesday 18 March 14.00-15.00	Schizophrenia Spectrum disorders	de Bartolomeis
	Tuesday 18 March 15.00-16.00	Introduction to clinical psychology: methodology	Vitelli
	Tuesday 18 March 16.00-17.00	Introduction to clinical psychology: specific issues	Vitelli
Cont 3° 10-14 March 2025	Wednesday 19 March 13.00-14.00	Intracranial tumors (I)	Cavallo
	Wednesday 19 March 14.00-15.00	Intracranial tumors (II)	Cavallo
	Wednesday 19 March 15.00-16.00	Brain Tumor imaging (I)	Tedeschi
	Wednesday 19 March 16.00-17.00	Brain Tumor imaging (II)	Tedeschi
4° 24-28 March 2025	Tuesday 25 March 13.00-14.00	Major Depression and Bipolar Disorders (1)	De Bartolomeis
	Tuesday 25 March 14.00-15.00	Major Depression and Bipolar Disorders (2)	De Bartolomeis
	Tuesday 25 March 15.00-16.00	Compulsory treatment according to the Italian Community Mental Health Law (legge 180/1978)	De Bartolomeis
	Tuesday 25 March 16.00-17.00	Violence, and psychiatric disorders. REMS	De Bartolomeis
Cont 4° 24-28 March 2025	Wednesday 26 March 13.00-14.00	Epilepsy	Tozza
	Wednesday 26 March 14.00-15.00	Brain and subarachnoid hemorrhage	Solari
	Wednesday 26 March 15.00-16.00	Imaging of epileptic disorders	Tedeschi
	Wednesday 26 March 16.00-17.00	Imaging of stroke and related disorder	Briganti
5° 31 March-	Tuesday 1 April 13.00-14.00	Anxiety disorders	Iasevoli
	Tuesday 1 April 14.00-15.00	Anxiety disorders	Iasevoli

4 April 2025	Tuesday 1 April 15.00-16.00	Psychotherapy (I)	Vitelli
	Tuesday 1 April 16.00-17.00	Psychotherapy (II)	Vitelli
Cont. 5° 31 March- 4 April 2025	Wednesday 2 April 13.00-14.00	Cerebral vascular disorders (I)	Saccà
	Wednesday 2 April 14.00-15.00	Cerebral vascular disorders (II)	Saccà
	Wednesday 2 April 15.00-16.00	Multiple sclerosis	Moccia
	Wednesday 2 April 16.00-17.00	Multiple sclerosis	Moccia
6° 7- 11 April 2025	Tuesday 8 April 13.00-14.00	Substance abuse and dual diagnosis (I)	de Bartolomeis
	Tuesday 8 April 14.00-15.00	Substance and dual diagnosis (II)	de Bartolomeis
	Tuesday 8 April 15.00-16.00	Gender Dysphoria	Vitelli
	Tuesday 8 April 16.00-17.00	Gender Dysphoria	Vitelli
Cont. 6° 7- 11 April 2025	Wednesday 9 April 13.00-14.00	Spine tumors	Cavallo
	Wednesday 9 April 14.00-15.00	Head and spine trauma	Cavallo
	Wednesday 9 April 15.00-16.00	Imaging of spine disorders	Tedeschi
	Wednesday 9 April 16.00-17.00	Imaging of traumatic injury	Briganti
7° 14-18 April 2025	Tuesday 15 April 13.00-14.00	Limitation and Opportunity of Translational Medicine and Precision Medicine in Psychiatry.	de Bartolomeis
	Tuesday 15 April 14.00-15.00	Biological- and non-pharmacological treatments of Psychiatry disorders	de Bartolomeis
	Tuesday 15 April 15.00-16.00	Personality Disorder: cluster A	de Bartolomeis
	Tuesday 15 April 16.00-17.00	Personality Disorder: cluster B e C	de Bartolomeis
Cont 7° 14-18 April 2025	Wednesday 16 April 13.00-14.00	Parkinson disease and other movement disorders (I)	Moccia
	Wednesday 16 April 14.00-15.00	Parkinson disease and other movement disorders (II)	Moccia
	Wednesday 16 April 15.00-16.00	Chorea, tremor and ataxia (I)	Lanzillo
	Wednesday 16 April 16.00-17.00	Chorea, tremor and ataxia (II)	Lanzillo
8° 21-25 April 2025	Wednesday 23 April 13.00-14.00	Coma (I)	Iodice
	Wednesday 23 April 14.00-15.00	Coma (II)	Tozza
	Wednesday 23 April 15.00-16.00	Headache (I)	Nolano
	Wednesday 23 April 16.00-17.00	Headache (II)	Nolano
9° 28 April -2 May 2025	Tuesday 29 April 13.00-14.00	Neuropsychiatric disorders, when neurology and psychiatry overlap (I)	de Bartolomeis
	Tuesday 29 April 14.00-15.00	Neuropsychiatric disorders, when neurology and psychiatry overlap (II)	de Bartolomeis
	Tuesday 29 April 15.00-16.00	Emergency in psychiatry	de Bartolomeis
	Tuesday 29 April 16.00-17.00	Emergency in psychiatry	de Bartolomeis
Cont 9° 28 April -2 May 2025	Wednesday 30 April 13.00-14.00	Muscular diseases	Ruggiero
	Wednesday 30 April 14.00-15.00	Myasthenia and related syndromes	Ruggiero
10° 5-9 May 2025	Tuesday 6 May 13.00-14.00	The Life World of Persons with Mood Disorders.	Vitelli
	Tuesday 6 May 14.00-15.00	The issue of the Unconscious: Psychoanalysis, Phenomenology and Cognitive Science;	Vitelli
	Tuesday 6 May 15.00-16.00	Differential diagnosis in psychiatry	de Bartolomeis
	Tuesday 6 May 16.00-17.00	Functional exams in psychiatry	de Bartolomeis
Cont 10° 5-9 May 2025	Wednesday 7 May 13.00-14.00	Vegetative system disorders (I)	Nolano
	Wednesday 7 May 14.00-15.00	Vegetative system disorders (II)	Nolano
11° 12-16 May 2025	Tuesday 13 May 13.00-14.00	ADHD in the adulthood	Iasevoli
	Tuesday 13 May 14.00-15.00	The transition from child and adolescence psychiatry to the adult psychiatry	Iasevoli
	Tuesday 13 May 15.00-16.00	Obsessive compulsive and related Disorders (I)	De Bartolomeis
	Tuesday 13 May 16.00-17.00	Obsessive compulsive and related Disorders (II)	De Bartolomeis

Cont 11° 12-16 May 2025	Wednesday 14 May 13.00-14.00	Encephalitis (I)	Lanzillo
	Wednesday 14 May 14.00-15.00	Encephalitis (II)	Lanzillo
12° 19 -23 May 2025	Tuesday 20 May 13.00-14.00	Peripheral nervous system disorders (I)	Tozza
	Tuesday 20 May 14.00-15.00	Peripheral nervous system disorders (II)	Tozza
	Tuesday 20 May 15.00-16.00	Amyotrophic Lateral Sclerosis (ALS)	Ruggiero
	Tuesday 20 May 16.00-17.00	Spinal Muscular atrophy (SMA)	Ruggiero
Cont 12° 19 -23 May 2025	Wednesday 21 May 13.00-14.00	Meningitis	Iodice
	Wednesday 21 May 14.00-15.00	Endovasal treatment of vascular malformation	Briganti
13° 26-30 2025	Tuesday 27 May 13.00-14.00	Dementia (I)	Salvatore
	Tuesday 27 May 14.00-15.00	Dementia (II)	Salvatore
	Tuesday 27 May 15.00-16.00	Endocranial Hypertension	Solari
	Tuesday 27 May 16.00-17.00	Hydrocephalus	Solari

## READINGS/BIBLIOGRAPHY

Adams and Victor's Principles of Neurology Ed. Adams - Victor - Ropper - Samuels - Klein – Prasad McGraw-Hill 2019.

The American Psychiatric Association Publishing Textbook of Psychiatry, Seventh Edition Ed. Laura Weiss Roberts, APA 2019.

## TEACHING METHODS

*The teaching activities will include: a) classes, interactive clinical cases, on site (ward) clinical cases evaluation*

*Being an integrated course the it will be implemented with specific topics overlapping neurology and psychiatry disorders as well as conditions in which psychiatric symptoms may predate neurologic presentation and vice versa*

The course will be based on lectures, including frontal lectures and interactive clinical cases providing 11 CFU and clinical clerkships providing another 1 CFU.

## EXAMINATION/EVALUATION CRITERIA

### a) Exam type:

*For **integrated courses**, there should be one exam.*

Exam type	
written and oral	X
only written	
only oral	
project discussion	
other	

In case of a written exam, questions refer to: (*)	Multiple choice answers	X
	Open answers	
	Numerical exercises	

(\*) multiple options are possible

### b) Evaluation pattern:

*The written exam consists of 30 multiple choice questions and a minimum of 18 exact questions should be scored to access to oral exam. The oral exam consists in questions pertaining all the discipline included in the integrated course neurology, psychiatry, psychology, neurosurgery and neuroradiology. For each correct answer and discussion, it will be assigned between 3 and 2 points for a total score of maximum 12 points to be added at written exam score.*